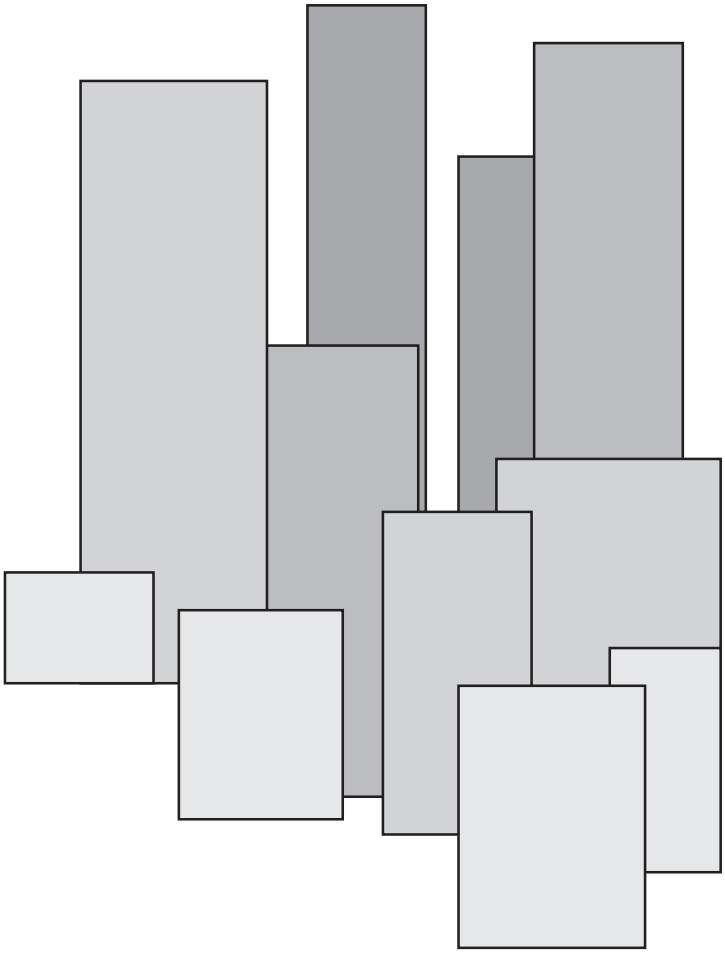
Issue I, Revision III: Nov. 2004



The Challenger

Version 8 Programming Guide

imagination at work

Released November 2004

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INTRODUCTION

The Version 8 Challenger Alarm Panel is assembled using the latest Surface Mount technology and added design features that provide increased reliability and self diagnosis functions. Many new programming options and refinements have been developed to provide even greater flexibility than the versatile Version 6 Alarm Panel, including information on the significant advancement of V9.

This programming guide also applies to the Version 7 software upgrade for Version 6 Challenger Alarm Panels. The Version 7 upgrade provides the features of Version 8 Panels, including the Upload/Download capabilities. Please read all the information in Appendix IV before fitting Version 7 upgrade software to Version 6 Panels. V9 programming and numbering system.

The Version 8 Challenger Programming Guide provides information on the many options available to the Installer.

The Installer menu options and the displays for each option have been listed in the sequence in which they appear on the panel. The pages of the manual have been divided into columns to provide a quick reference programming sequence on the right side of the page and more detailed explanations on the left.

In addition, various tables and summaries have been supplied and these will provide the Installer with valuable cross references. The Programming Guide should be used in conjunction with *The Challenger* User and Hardware Guides and other related manuals.

The Challenger system hardware capacity:-

256 Inputs
255 Relays
16 Areas

16 Arming Stations
15 Data Gathering Panels (or Door/Lift Controllers - Max 12)
64 Doors (or 12 Lifts)
64 Floors

On-Board Dialler
Serial Securitel interface connection
Serial Printer connection (Optional module)
Serial Computer connection (Optional module)
Panel Link connection (Optional module)

The Challenger standard memory capacity:-

50 Users with 16 characters for user name and up to 10 digit PIN number
128 Programmable Alarm Groups
10 Door Groups
10 Floor Groups

200 Event printer buffer
-100 Access control Events
-100 Alarm system Events

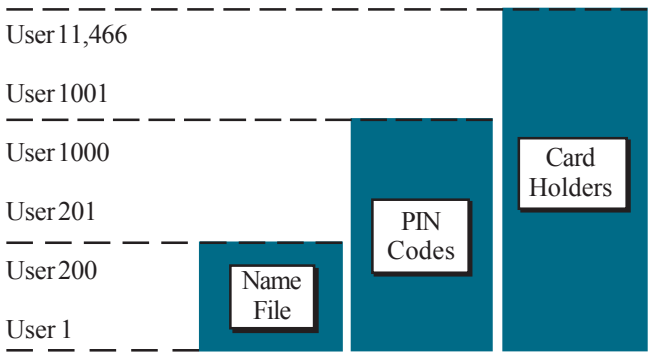
The Challenger expanded memory capacity:-

11,466 Users
- 200 with 16 characters for user name
- 1000 with 10 digit PIN number
- 11,466 card holders

128 Programmable Alarm Groups
128 Door Groups
64 Floor Groups

2000 Event printer buffer
-1000 Access control Events
-1000 Alarm system Events

Note: Output Events are prioritised with Alarm Events given priority.



USER PROGRAMMING - EXPANDED MEMORY

Disclaimer

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CONTENTS

Getting Started:

Menu Options:

Continued Over .....

CONTENTS

GLOSSARY

ACCESS	:	The condition of an area or building when it is occupied and when the security system has been set so that normal activity does not set off an alarm.
ACCESS CONTROL	:	The control of entry to, or exit from a security area.
ALARM GROUP	:	A *Challenger* feature which defines a group of areas, functions and menu options. Alarm groups are assigned to users, arming stations, or door readers, to define what areas can be controlled & what functions can be performed by that user, or from that device. An alarm group can also be assigned to certain input types for area control.
ALARM	:	The state of a security system when an armed input device is activated. eg. A door lock is broken causing a siren to sound.
AREA	:	A section of a building which has specific security requirements. *The Challenger* allows a building to be divided into 16 areas of differing security requirements. Each area is identified by a number and name. eg. 1. Office, 2. Workshop, 3. Boardroom. etc.
ARMED	:	The condition of an input, an area or a building, when a change in the status of any input (from sealed to unsealed) will cause an alarm. An area or building is only armed when it is unoccupied. Some inputs may remain armed continually.
ARMING STATION (RAS)	:	A device which is the user's control panel for security functions for an area(s) or for access points (doors). The arming station may be a *Challenger* console, or any other device which can be used to perform security functions such as arm/disarm, open doors etc.
CURSOR	:	A flashing underline character on the liquid crystal display which indicates where the next character entered on the keyboard, will appear.
DGP	:	(Data Gathering Panel) A device which collects data from other security devices within an area, and transfers it to the main control panel.
DOOR GROUP (ACCESS GROUP)	:	A *Challenger* feature which assigns a group of doors or lifts to a user, in order to allow access at those doors/lifts. Access to each door in a group may be restricted via a timezone.
DURESS	:	A situation where a user is being forced to breach the system security (eg. forced at gunpoint to open a door). *The Challenger* Duress Facility allows a signal to be activated (eg. notification to a security station) by the user. This is done by entering a duress digit in conjunction with a PIN.
EGRESS INPUT	:	An input that activates, or is programmed to activate, a Door Event Flag. e.g. A button provided inside a door (Egress button) to allow users to exit without using the door reader.
EVENT FLAG	:	A signal activated by an input condition, area condition, system status or fault condition, door command (on doors 1 to 16) or shunt timer condition. The main purpose of an event flag is to activate a relay.
FLOOR GROUP	:	A *Challenger* feature which assigns a group of floors to a user, in order to allow selection of those floors when accessing a lift reader. Access to each floor in a group may be restricted via a timezone. (Previously called "Lift Group" in Version 6)
HISTORY	:	A list of past alarm and access control events stored in memory which can be viewed on an LCD Arming Station or sent to a printer.
INPUT	:	An electrical signal from a security device (Input Device) to *The Challenger* system. Each input device is identified by a number and text. eg. 14. Reception Holdup Button, 6. Fire Exit Door.
ISOLATE	:	See Sealed/Unsealed/Isolated.
LCD	:	(Liquid Crystal Display) The part of an arming station where messages or programming

input are displayed.

LED : (Light Emitting Diode) A light indicator, on an arming station, which conveys a condition. eg. Area in alarm, communications fault etc.

LOCAL ALARM : An alarm which is transmitted only within a building, and occurs when an area is occupied. The circumstances which cause a local alarm can be checked and rectified by personnel on site and it is therefore unnecessary for the alarm to be relayed to a remote monitoring station.

ON-LINE/OFF-LINE : Operational/Not operational
A device may be off-line due to a malfunction in the device itself or a disconnection from the control.

PIN : A 4-10 digit number given to, or selected by a user, It is necessary to enter a PIN on *The Challenger* keypad as a pre-requisite to performing most *Challenger* functions.
In *The Challenger* programming the PIN is associated with a user number which identifies the PIN holder to the system.

POLL : An inquiry message continually sent by *The Challenger* control panel to DGPs and arming stations. Polling allows the remote unit to transfer data to the control panel.

RAS : See "Arming Station".

RELAY CONTROLLER : A PCB module which connects to *The Challenger* or a DGP to provide Relay or Open Collector outputs. When programming, 1 Relay Controller = 8 Relays.

REMOTE MONITORING COMPANY : A company which monitors whether an alarm has occurred in a security system. A remote monitoring company is located away from the building/area it monitors.

SEALED/UNSEALED/ISOLATED : Describes the condition of an input device.
Sealed: The input device is NOT activated. eg. door closed.
Unsealed: The input device is activated. eg. door open.
Isolated: The input device has been inhibited from indicating sealed or unsealed status. It is excluded from functioning as part of the system.

SECURE : The condition of an area or building when it is armed (security turned on) and unoccupied.

SHUNT : A procedure which inhibits an input from being activated when it is in an unsealed condition.
eg. Shunt stops a door generating an alarm when opened for a short time.

TAMPER : A situation where an arming station or associated wiring are tampered with, or accidentally damaged.
The Challenger Tamper Facility activates a signal (eg. flashing light) when Tamper occurs.

TIMEZONE : A program setting which identifies specific time periods on specific days.
Timezones are allocated to *Challenger* functions to control the activity of that function by time and day and are primarily used to restrict access.

UNSEALED : See Sealed/Unsealed/Isolated.

USER : A number which is associated with a user's PIN to identify the user to *The Challenger*.

USER CATEGORY : A User Category can be assigned to an Alarm Group to enable different types of Users to: Use the timed access function on certain area/s,
Restrict alarm control to "Arm/Reset only" on certain area/s or
Utilize the "User Count for each area" or "Dead Man Alarm" function.

NUMBERING

All DGPs, inputs, and relays are numbered according to a set formula.
This is used when determining the physical numbers/locations of DGPs, relays etc. when programming.

Panel Link expansion uses the existing numbering system for a Challenger panel plus one extra feature. Each linked panel can be identified by the addition of 2 numbers in front of existing system numbers. That number identifies the panel as one of a possible 16. Zero or nothing identifies the first panel; the master panel, for examples inputs 1-16 will remain unchanged.

INPUTS

The main *Challenger* panel can have up to 16 inputs connected to it. These are numbered as inputs 1 to 16.
Input number 13 on Panel Link 6 would be Input number 6013.
Input number 13 on Panel Link 7 would be Input number 7013.
Input number 13 on Panel Link 0/Master Panel would be Input number 13.
A standard DGP can have 8 inputs connected to it. This can be expanded in increments of 8, up to 32.
(So, a DGP can have 8, 16, 24 or 32 inputs)

Expanding the inputs connected to a DGP to more than 16 is the same as combining 2 DGPs. The additional inputs are taken from the following DGP. If this is done, the second DGP ceases to exist and is not included to be polled.
This is done to maintain consistent numbering.

eg. DGP1 has 32 inputs
(DGP2 cannot exist as DGP1 has used the inputs allocated to the DGP2 address)
DGP3 is therefore the second physical unit.
If it has 24 or 32 inputs, DGP4 cannot exist and so on.

See the example at end of "Numbering" section.

Door and Lift controllers are also DGP's, and their inputs fit into the standard input numbering.
eg. Door controller 1 is DGP 1 and has 16 inputs, which *The Challenger* sees as inputs 17 to 32.

Input Numbers:

Chall	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
DGP**1**	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
DGP**2**	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
DGP**3**	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
DGP**4**	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
DGP**5**	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
DGP**6**	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112
DGP**7**	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128
DGP**8**	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144
DGP**9**	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160
DGP**10**	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176
DGP**11**	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192
DGP**12**	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208
DGP**13**	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224
DGP**14**	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240
DGP**15**	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256

8-32 INPUT DGP PROGRAMMING

For each DGP programmed to be polled, the Challenger expects to see 16 or 32 inputs,
depending on the setting of Dipswitch 5.
If a DGP is connected with only 8 or 24 inputs, the unused input numbers in the system must be programmed in the Input Database as Type 0. (Type 0 is the default input type for inputs 17 to 256)

e.g. DGP 1 has 24 inputs (2 i/p expanders fitted & Dipswitch 5 on). Therefore, inputs
41 to 48 must be programmed as Type 0.

In a new Challenger Panel or a panel that has been reset to factory defaults (using Installer Option 14), inputs
1 to 16 are set to Type 2 - Secure Alarm, and all other inputs (DGP inputs) are defaulted to Type 0 - No Input Type.

NUMBERING

RELAYS

Outputs on DGP's can be expanded by the use of Relay Controllers.

Each relay controller expands the relays by 8 .

A DGP can have 2 relay controllers connected, increasing the relays to the maximum of 16 per DGP.

A *Challenger* panel can have up to 32 relay controllers which would provide the maximum of 256 relays.

Note: If the main *Challenger* panel has more than 2 relay controllers connected, therefore making more than 16 relays, the relay numbers will be duplicated on the DGPs.
If this is done, one of 2 options may be used:
- The relays on the DGPs are not used.
- both relays are activated together.

e.g. The Challenger Panel has three relay controllers fitted and DGP 1 has one relay controller fitted.
When relay 17 is active, the first relay on the third relay controller connected to the Challenger Panel; and the first relay on the relay controller connected to DGP 1 are both activated.

The relay numbers allocated for each DGP address are listed in this table.

DGP1	17-32	DGP9	145-160
DGP2	33-48	DGP10	161-176
DGP3	49-64	DGP11	177-192
DGP4	65-80	DGP12	193-208
DGP5	81-96	DGP13	209-224
DGP6	97-112	DGP14	225-240
DGP7	113-128	DGP15	241-256
DGP8	129-144		

Relay numbers are always the same as the first 16 input numbers on the DGP they are connected to.

If a DGP does not exist because the previous DGP has an expanded number of inputs, the relay numbers of that DGP address cannot be used for relays connected to DGPs.

The relay numbers can be used if relay controllers are connected to the Challenger Panel that correspond to those relay numbers.

eg. DGP1 has 32 inputs : 17-48
DGP1 relays (max 16) : 17-32
(DGP2 relays 33-48 not used)
DGP3 has 32 inputs : 49-80
DGP3 relays : 49-64
(DGP4 relays 65-80 not used)

See the example at end of "Numbering" section.

SIREN OUTPUTS

The Internal and External Siren speaker outputs on the V7/V8 *Challenger* Panel are always treated as Relay 16.

On Data Gathering Panels with Siren speaker outputs, the last of the 16 relay numbers associated with that DGP address is the Siren output. e.g. On DGP 3 the Siren speaker output is Relay 64. (*See table below*)

To enable the Siren speaker output, the Relay number representing the siren output must be mapped to the required "Siren Event Flag Number". The "Siren Event Flag Numbers" are programmed in Installer Option 2 - Area Databases.

DGP Number:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Siren Relay No:	32	48	64	80	96	112	128	144	160	176	192	208	224	240	-

RELAY CONTROL GROUPS

Relay control group numbers are a way of identifying a group of 8 relays **controlled by an arming station**.

When a relay control group is assigned to an arming station, the Open Collector output (or "OUT") terminal, follows the FIRST relay of the relay control group.

Refer to: Program Arming Stations - Installer menu option 3.

Group	*Relay Numbers*
1	*1 - 8*
2	*9 - 16*
3	*17 - 24*
4	*25 - 32*
5	*33 - 40*
6	*41 - 48*
7	*49 - 56*
8	*57 - 64*
9	*65 - 72*
10	*73 - 80*
11	*81 - 88*
12	*89 - 96*
13	*97 - 104*
14	*105 - 112*
15	*113 - 120*
16	*121 - 128*

Group	*Relay Numbers*
17	*129 - 136*
18	*137 - 144*
19	*145 - 152*
20	*153 - 160*
21	*161 - 168*
22	*169 - 176*
23	*177 - 184*
24	*185 - 192*
25	*193 - 200*
26	*201 - 208*
27	*209 - 216*
28	*217 - 224*
29	*225 - 232*
30	*233 - 240*
31	*241 - 248*
32	*249 - 256.*

DOOR AND LIFT NUMBERING

Door numbers are determined by the address of the Arming Station or Reader connected to the Challenger LAN or Intelligent Controller LAN, and the Intelligent Controller address if applicable.

Doors 1 to 16 are reserved for Arming Stations 1 to 16 which are connected to the Challenger Panel LAN and are being used for Door Control functions.

Doors 17 to 64 are used for Door or Lift numbers being controlled by an Intelligent Controller DGP. (4 Door Controller or Lift Controller). *See table opposite.*

UNIT	DOOR NUMBER			
RAS **1 to 16**	1 to 16			
	1st or Lift	**2nd**	**3rd**	**4th**
DGP**1**	17	18	19	20
DGP**2**	21	22	23	24
DGP**3**	25	26	27	28
DGP**4**	29	30	31	32
DGP**5**	33	34	35	36
DGP**6**	37	38	39	40
DGP**7**	41	42	43	44
DGP**8**	45	46	47	48
DGP**9**	49	50	51	52
DGP**10**	53	54	55	56
DGP**11**	57	58	59	60
DGP**12**	61	62	63	64

PANEL LINK NUMBERING

Panel Link expands on the standard Challenger system by increasing the number of inputs, outputs, areas, etc.

Panel Link hardware capacity:

Connection of a possible 16 Challenger panels
4096 Inputs (16 x 256)
4080 Relays (16 x 255)
256 Areas (16 x 16)

256 Arming Stations (16 x 16)
240 DGPs (16 x 15)
1024 Doors (16 x 64)
1024 Floors (16 x 64)

On-board Dialler
Serial Securitel interface connection
Serial Printer connection TS0891 (optional module)
Serial Computer connection TS0892 (optional module)

Panel Link memory capacity per Panel:

11,466 Users common to all Panels
- 200 with 16 characters for user name
- 1000 with 10 digit PIN number
- 11,466 card holders

128 Programmable Alarm Groups
- 128 Door Groups
- 64 Floor Groups

2000 Event Buffer per panel
- 1000 Access control events
- 1000 Alarm system events

Because Panel Link works to form a complete unit out of a possible of 16 Challengers, the numbering system has altered to cater for this change. Numbering for Challenger Panel 0, the master panel will remain the same, the remaining Panels however will have a prefix to identify the Challenger panel.

Panel Link Input Numbers:

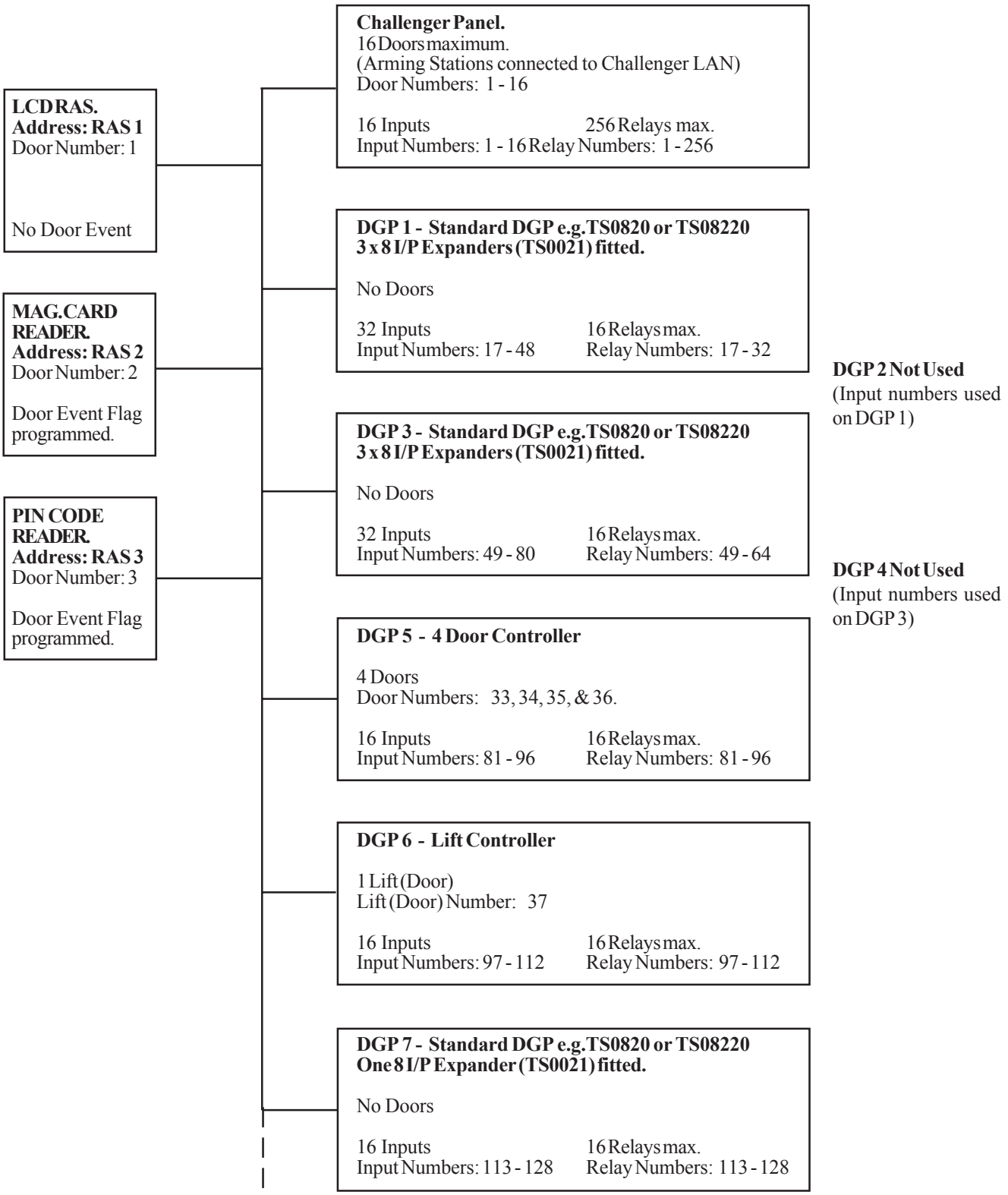
Chall 0 (master panel) ..... 1 to 256
Chall 1 ..... 1001 to 1256
Chall 2 ..... 2001 to 2256
Chall 3 ..... 3001 to 3256
Chall 4 ..... 4001 to 4256
Chall 5 ..... 5001 to 5256
Chall 6 ..... 6001 to 6256
Chall 7 ..... 7001 to 7256
Chall 8 ..... 8001 to 8256
Chall 9 ..... 9001 to 92566
Chall 10 ..... 10001 to 10256
Chall 11 ..... 11001 to 11256
Chall 12 ..... 12001 to 12256
Chall 13 ..... 13001 to 13256
Chall 14 ..... 14001 to 14256
Chall 15 ..... 15001 to 15256

Input numbers are displayed left as an example of the numbering system. The last numbers identify the input in this case and the first numbers are an indicator of the Challenger panel associated with that input.

Input No.: NNXXX

NN = Challenger No.
XXX = Input No.

EXAMPLE OF INPUT, RELAY AND DOOR/LIFT NUMBERING.



INSTALLER MENU

The Installer menu is accessed via the User menu and is User menu option 19.

The system must be disarmed before it is possible to use the Installer Menu.

To disarm the system:
4 3 4 6 (Master PIN code) **<OFF>**
0 (Select all areas) **<ENTER>**

To display menu option 19 on the User menu the alarm group of the user code must allow it.

The Master Installer is User Number 50
The default master PIN code (User 50) = 4346

The master PIN code should be changed.

The Alarm Group assigned to User 50
should never be changed.

Note: When using the manual:

? 1. This symbol indicates a variable numeric or alpha value to be recorded. eg. An input number, an area number, an alarm group number etc.

2. Where programming procedures are the same for several records in one function, this procedure is shown only once. Examples of the display for each record are however provided.

USER MENU OPTIONS

The following User Menu Options may also need to be used when programming your Challenger System.

Test Input	User Menu Option 12
Program Users	User Menu Option 14
Program Time & Date	User Menu Option 15
Door & Floor Groups	User Menu Option 20
Holidays	User Menu Option 21

The programming details for all User Menu Options are available in The Challenger Version 8 User Guide, which is supplied with every Version 8 Challenger Panel.

To access the Installer menu:

1. The display will show:

```
There Are No Alarms In This Area
Code :
```

[*] ~ Press

2. The display will show:

```
To Access Menu Enter Code
Code:
```

[4346 Enter] ~ Enter Mastercode.

3. The display will show:

```
"0"-Exit, "ENTER"-Down "*"-Up
0-Exit, Menu:
```

[19 Enter] ~ Enter Installer menu option number.

4. The display will show:

```
Install Menu
0-Exit, Menu:
```

[ENTER] ~ Scroll forwards through the menu options.

or [*] ~ Scroll backwards through the menu options.

or [0 ENTER] ~ Return to the User Menu.

or [? ENTER] ~ Select a menu option.

INSTALL OPTIONS

1. Input Database

Records parameters of inputs. Must be programmed for every input used.

Input Number ..... - 1 to 256 (Depends on the number of DGPs in the system)
Input Name ..... - Name/description of input.
Input Type ..... - Number and name for a pre-defined input type which determines the input function.
Reporting ..... - Method of reporting to the monitoring company. (Contact ID Type)
Area Assignment ..... - List of areas assigned to the input. (Or Alarm Group on Area Control input types)
Test Option ..... - Determines testing procedure.
Event Flags ..... - Records the event flags which can be activated by the input.

Selected Event Flag	Secure Alarm x 8	Camera
Siren	Access Alarm x 3	
Console Warning	24 Hour Alarm	

Make all Events 24 Hr.... - Determines active period of event flags assigned to the input - Access/Secure.
Print I/P when unsealed .. - Allows printout of input condition to be enabled/disabled.

2. Area Database

Records parameters of areas. Must be programmed for every area used.

Area Number ..... - 1 to 16.
Area Name ..... - Programmable text for easy area recognition.
Exit Time ..... - Time allowed between exit and area arm before an alarm is activated.
Entry Time ..... - Time allowed between entry and area disarm before an alarm is activated.
Event Flags ..... - Records event flags which can be activated by conditions in the area or condition of inputs with this area assigned to them.

Siren	Secure Alarm	Entry Timer
Accessed	Access Alarm	Warning (User Cat. timer expiry)
Unsealed	Local Alarm	Camera
Isolate	Exit Timer	Pre-Alarm

Out of Hour Timezone - Timezone which will cause an alarm condition if area is accessed out of specified hours.
Area Disarm Time ..... - Records the Timed Disarm period for individual areas. (Over-rides User Category timers)

3. Arming Stations

Records details of arming stations. Must be programmed for every arming station used.

RASs to be polled ..... - Records the number of each arming station to be polled by the main control panel.
Area Alarm Group ..... - Alarm Group to determine the areas which can be controlled by the arming station.
Menu Alarm Group ..... - Alarm group to determine the areas which can be accessed via the arming station when using menu options. (Optional)
Door Function ..... - Assign event flag to allow arming station to be used to open a door.
Relay Group assigned ..... - Assign relay group to enable Output on RAS.
LCD Arming Station ..... - Defines type of arming station.
Toggle Keyboard Control - Disables use of OFF or ON control when arming/disarming at the arming station.
ENTER key Opens Door Only ..... - Prevents ENTER key from being used for Alarm functions. (Toggle Control must be NO)
Door Event Flag on Alarm Codes ..... - Determines if Alarm Codes can be used for door function.
Display Shunt on LCD ..... - Allows Shunt functions to be displayed on LCD RAS.
Disarm/Arm using one key - Option for use of special 16 Area Membrane RAS.
Cards Auto Disarm ..... - Allows Cards to Disarm without using OFF key.
Card Always Disarm/Arm - Allows Cards to Arm and Disarm without using ON/OFF keys.
Reset without Code ..... - Allows user to reset alarms without PIN.
Restrict User Categories to Disarm ..... - Restricts User Category functions to disarm only.

4. Data Panels

Records details of Data Gathering Panels. Must be programmed for every DGP used.

To be Polled ..... - Records the number of each DGP to be polled by the main control panel.
DGP Type ..... - Records the type of DGP being polled.

5. Alarm Groups

Records parameters of each alarm group. Must be programmed before users can have any alarm system control.

Alarm Group Number ..... - 1-128 (1-10 hardcoded, 11-29 pre-programmed).
Alarm Group Name ..... - Name of the alarm group.
Areas Assigned ..... - Areas where the alarm group can control functions.
User Alarm Group ..... - Indication of whether alarm group can be assigned to a user.
Alarm System Control ..... - Allow alarm system control functions.
List Areas ..... - User is prompted with List of areas on LCD during arm/disarm.
Keyboard Duress ..... - Allows duress facility to be activated by a code.
Reset System Alarms ..... - Allows the alarm group to reset latching system alarms.
Disable Auto De-isolate .. - Disables Auto De-isolate function.
Arm and Reset Only ..... - Restrict alarm system control to arm and alarm reset only.
Disarm Only ..... - Restrict alarm system control to disarm only.
Alarm Reset Only ..... - Restrict alarm system control to alarm reset only.
Auto Isolate Unsealed Inputs ..... - Isolate unsealed inputs when arming.
Forced Arming when Inputs Unsealed ..... - Arm with unsealed inputs.
Prevent Forced Disarming ..... - Prevent disarming with unsealed inputs.
Modem Access ..... - Allows access to Challenger Panel via dial-up modem.
User Category 1 ..... - Link User to Category 1.
User Category 2 ..... - Link User to Category 2.
User Category 3 ..... - Link User to Category 3.
User Category 4 ..... - Link User to Category 4.
User Category 5 ..... - Link User to Category 5.
User Category 6 ..... - Link User to Category 6.
User Category 7 ..... - Link User to Category 7. (Dead Man Alarm)
User Category 8 ..... - Link User to Category 8. (Counter)
No Arming if User Category not Timing ..... - Prevent user category timer if area disarmed without timer running.

User Menu Options ..... - Allow access to user menu options - individually.
Time Zone ..... - Allocate timezone to control when alarm group is enabled.
Alternate Alarm Group ... - Allocate alarm group to apply when timezone for this one is not valid.

6. Timers

Records time values applicable to some timed system functions. Must be programmed for the functions required.

User Cat. 1 to 7 ..... - Individual times for user categorys 1 to 7 function of Time Disarm.
User Category 8 ..... - Time for user category 8 function of Time Disarm.
(Category 8 time must not be programmed if used for Counter option)
Access Test ..... - Time that an access test runs.
Secure Test ..... - Time that a secure test runs.
Warning Time ..... - Time provided as a warning before group timer expires or before test procedure expires.
Delayed Holdup ..... - Time between delayed type input being activated and an alarm being reported.
Suspicion Time ..... - Time that a camera continues to operate after a suspicion input seals.
Service Isolate ..... - Time applicable to enable service.
Local Alarm Reminder .... - Time between alarm and re-alarm for local alarms.
Individual Input Test ..... - Time that a test on an individual input runs.
Door/s Unlock Time ..... - Time that door locks activate.
Tester Event Flag ..... - Time that tester event flag activates for during secure test.
Siren Time ..... - Time that the internal siren drivers operate.
Mains Fail Time ..... - Time allowed before the Panel reports Mains Fail to the Remote Monitoring company.

7. System Options

Records system options. Must be programmed to determine how the system will operate.

Areas Selected to total Disarm ..... - Allow Access Local/Secure Alarm inputs to be totally disarmed.
Film Low Level ..... - Frame count number used to indicate low film.
Film Out Level ..... - Frame count number used to indicate no film.
Test Mode ..... - Determines if/when secure and access tests run automatically.
Relay Controllers ..... - Number of relay controllers fitted to the main panel.
Event Text ..... - Text shown on LCD when event text inputs activated.
Alarm Prefix ..... - Number of Alarm Prefix digits for defining Door and Alarm codes.
Time Before LCD Text Rotation ..... - Option to allow the period before LCD Text begins to rotate, to be altered.
LCD Text Rotation Speed - Option to allow the rotation speed of LCD text to be altered.
Input Tamper Monitoring - Indicate if input alarm is tamper alarm.
Automatic De-Isolate ..... - De-isolate input when area accessed.
Input Display ..... - Display one input at a time for user functions.
Name File ..... - User PIN to have a record of user name.
System Alarms set Siren/Strobe ..... - System alarms on Panel & DGP (Tamper, Mains fail etc) activate Siren & Strobe.
System Alarms Latch ..... - System Alarms are latching and need to be reset with code.
Siren Testing ..... - Sirens operate when secure test is started.
Disable "0 Enter" for Camera Reset ..... - "0 Enter" disabled for use to stop cameras operating.
Disable Auto Insert of User Categorys ..... - Disables the ability to treat areas as vaults.
Disable Area LEDs that don't Report ..... - Disables LEDs for areas not reported on.
Disable Code from Displaying ..... - Disables codes from being displayed when being programmed. (In User Menu Opt. 14)
Disable Flashing Area LEDs ..... - Disables the flashing of area LEDs when an alarm condition occurs.
Dual Custody ..... - Two users are required to enter their PIN to enable user programming.
Display Alarm Instant ..... - Enables alarms to be displayed instantly on the LCD Arming Station/s
Sirens Only after Report Fail ..... - Enables Sirens to be disabled unless Panel fails to report.
Financial Institution Options ..... - Enables three special options specific to financial institutions.
Display User Flags ..... - Enables the special User Flags to be displayed when programming Users. (User Menu Opt. 14)

8. Auto Reset

Used to program *Challenger* to automatically reset alarms if the function is required.

Auto Reset Time ..... - Set time that elapses between alarm occurring and reset.
Reset Alarm Group ..... - Alarm Group which records areas to reset.

9. Communication Options

Records the details of the communications link between *The Challenger* and the remote monitoring company &/or computer.

PABX access code ..... - Number/s (if required) for access to PABX.
Telephone Numbers ..... - Numbers used for Dialer reporting formats, "Dial for Service", "Callback" and "Computer via dialer".
Account Numbers ..... - Unique number/s to identify the system to the monitoring company. (Dialer formats)
Format ..... - Reporting format type. e.g. Direct Line, Dialer formats, Securitel etc.
Direct Line Address ..... - System identification number when communicating via a direct line.
Computer Address ..... - System identification number when connected to a Central Management System.
Areas to Report On ..... - Areas where arm/disarm reported to monitoring company.
STU Hard ID ..... - Address of Securitel Interface Unit.
Encryption Key ..... - Enables Data encryption key to be programmed for Tecom Direct Line format.
Number of Rings ..... - Number of rings in Callback request call.
No. of Calls before answer ..... - Number of calls before panel answers Callback request .
Dialer Test mode ..... - Determines testing procedure for communications.
Test Call Time ..... - Records time of day when test call will be activated.
Buffer Size ..... - Defines Transmission Buffer size for Ademco format dialers.
Alarm Reporting ..... - Report multi break alarms.
Alarm Restoral ..... - Report multi alarm restorals.
Always Terminate Direct Line ..... - Allows Direct Line connection to be permanently loaded (direct line only).
Remote System Control ... - Allow system control via remote monitoring company (direct line only).
Open/Close Reporting ..... - Defines condition required to report armed/disarmed.
Tone/Decadic dialling .... - Defines the panel's dialling format.
Disable Isolates triggering Dialer ..... - Disables Isolates from triggering the dialer to report. (Isolates will be reported to the monitoring company with the next report)
Answering machine defeat ..... - Enables the Challenger Panel to connect instantly when being accessed via dial-up modem.
Enable PSTN Line Fault Monitor ..... - Enables the Challenger Panel to monitor the integrity of the dialer line.
Computer Port connected via Modem ..... - Allows Challenger Computer I/face to be linked to System management computer via modem.
Dial Alarm Events to Computer instantly ..... - Enables the Challenger Panel to dial through Alarm Events to the computer instantly.
Dial Access Events to Computer instantly ..... - Enables the Challenger Panel to dial through Access Events to the computer instantly.
Dial Events via Computer Port ..... - The Challenger Panel is reporting to the computer via the Dial-up modem on the Computer Port
Dial Events via On-board modem ..... - The Challenger Panel is reporting to the computer via the On-board modem.

10. Text Words

Used to program additional words unique to this system and in addition to existing word library.

Word Number
Word

11. Version Number

Records software version and database revision numbers.

12. Lamp Test

Turns LEDs on or off to enable testing.

13. Time Zones

Records parameters of time zones. Must be programmed if Timezones have been assigned to any functions.

Timezone Number ..... - 1 to 24
Times ..... - Start and end time.
Days ..... - Days of week/holiday that timezone is valid.

14. Reset Defaults

Resets system to various default settings and allows history to be cleared.
The Default Option: 99 - All, should be used before commencing the programming.

15. User Category Data

Records user category parameters. Programmed if Time Disarm, Arm/Reset restriction or User Count functions required.

User Category Number .... - 1 to 8.
User Category Name ..... - Name of the User Category.
Areas to Time On ..... - Areas programmed for Time Disarm.
Areas to Arm/Reset ..... - Areas programmed for Arm/Reset.
Alternates ..... - Alternate areas to time on/arm/reset for alternate alarm groups.

16. Relay Mapping

Records details of settings which control the activity of relays. Must be programmed for every relay used.

Relay Number
Event Flag Number ..... - Number of the event flag which will activate the relay.
Timezone ..... - Controls times that relay is active/inactive.
Active/Inactive during Timezone ..... - Determines the effect of the timezone.
Relay is Inverted ..... - Reverses the logic to the relay.

17. Arm/Disarm Timers

Relates a timezone to an access level to facilitate automatic arm/disarm in accordance with a timezone if required.

Program Number ..... - Number for each record.
Timezone ..... - Number of timezone.
Alarm Group ..... - Number of the alarm group.

18. Areas Assign to Vaults

Assign areas to be treated as vaults.
By using a special programming procedure a user category timer will start when all the vault areas are armed. When the timer expires, a non-vault area linked to the vault areas will automatically arm.

19. Area Linking

Links an area to other areas to enable common control.

20. Site Number

Records up to two site identification numbers ("Site Codes" or "Facility Codes") and provides the option of programming two card offset values used in access card codes for readers connected to the Challenger LAN.

21. Input Shunts

Records details of a shunt procedure. Programmed to inhibit an input from being activated for a set time period.

Shunt Timer Number ..... - Number of the shunt timer. 1 to 16
Input Number ..... - Number of the input which is shunted.
Relay Number ..... - Number of the relay connected to the shunt timer.
Shunt Time ..... - Time that the input will be shunted.
Shunt Warning Time ..... - Time that the Shunt Warning will be activated before Shunt timer expires.
Shunt Event Flag ..... - Event Flag number that will be activated during the Shunt time.
Shunt Warning Event Flag - Event Flag number that will be activated during the Shunt warning time.
Door Open Command ..... - Determines how the shunt timer will be activated.
Door Shunted in Access ... - Allows the shunt to operate in access.
Door Shunted in Secure ... - Allows the shunt to operate in secure.
Cancel Door Event Flag . - Door event flag will be cancelled when shunt timer seals.
Input Holds Event Flag at at 2 Seconds ..... - Allows delay in cancelling door event flag - for magnetic locks and drop bolts.
Entry/Exit Shunting ..... - Allows Shunted input to be treated as Entry/Exit point.
Report Door Open/Close ..... - Allows input unsealed/sealed to be logged on printer as door open/close.

22. Timezone to Follow Relays

Used to program a timezone to be active only when a relay is active.

Timezone Number
Relay Number

23. Poll Errors

Displays errors in communication between *Challenger* and units connected to it.

24. Download

Allows User, Door/Lift Group, Timezone, and Holiday data to be downloaded to Intelligent DGPs.

Display Status ..... - Displays status of Download operation.
Down Load All ..... - Provides options for downloading of specific databases .

25. Display Card

Displays the Site Code and Card I.D. Number of the last card read by a reader connected to the Challenger LAN. i.e. Doors 1 to 16. Diagnostic facility only.

26. Edit

Do not use. Diagnostic Facility only.

27. Tecom Address Mapping

Displays the Physical Address and Reporting Address of Tecom Direct Line Panels. Diagnostic facility only.

28. Remote Controllers

Allows access to Intelligent Door and Lift Controller DGP Programming.

Refer to Separate "V7/V8 4 Door Controller" or "V7/V8 Lift Controller" Programming Guides.

29. Security Password

Records the Security Password required to access the Challenger Panel via any Computer Protocol. e.g. Challenger Management software.

30. Printer

Records parameters of printer output. Must be programmed if TS0091 or TS0094 are fitted and connected to a printer.

Enable Real-time Printer - Enables printer output to print in real-time. (If set to NO, "Print History" must be used)
Print Alarm Events..... . - All alarm system events will be printed.
Print Access Control Events ..... - All Access Control events will be printed.
Dump Print Data Outside Timezone ..... - Option for Printer to operate outside the timezone instead of during the timezone.
Print During Timezone .... - Timezone during which printer will be active.
Printer Options..... .. - Printer Baud rate and Data format options.

31. Battery Testing

Records parameters of Auto Battery Test options and allows manual testing of battery.

Test mode selection ..... - Enables Auto Battery Test and selects frequency.
Start Battery Test..... - Specifies time of day when battery test will start.
Battery Test time ..... - Specifies how long battery test is to run for.
Manual Battery Test ..... - Allows manual testing of Challenger Panel and DGP batteries.

32. Custom Message

Records 32 Characters of customised Text which will be displayed on the LCD Arming Station/s in place of the message "There are no Alarms in this Area"

33. Program Next Service

Records the date on which the next routine service call is due and the message to be displayed.
The client will be prompted with programmable text to call the Security Company, via the LCD Arming Station/s.

34. Program Summary Event Flags

Records Event Flags assigned to system functions and system alarms. Programmed if a relay output is required to indicate function or alarm condition.

Summary Event Flags ..... - Records event flags which can be activated by conditions or faults in the system.

Mains Fail	Tamper	DGP Offline	Film Out	All Secured
Low Battery	Siren Fail	RAS Offline	Report Fail	Console Trigger
Fuse Fail	DGP Isolate	Duress	Testmode	

35. Program Macro Logic

Records details of high level Relay and Event Flag logic programming.

Macro Logic Program Number ..... - Number of the Macro logic program. 1 to 24.
Function ..... - Selects the way in which the logic output will function.
Time ..... - Records the period that the function will time for. (If a timed function selected)
Activate Event Flag or Input Number ..... - Records the number of the Input or Event Flag that will be activated.
Logic Equation ..... - Records up to 4 Logic Inputs (Event Flag or Relay Numbers) and whether each of those inputs performs an AND, OR, NAND or NOR function in the logic.

36. Radio Communications

Records details of communication options when reporting via Radio Interface.

(See documentation supplied with Radio Kit)

37. Panel Link

Sets up linked panels for programming sequence.

Panel Linked	Enter the ID numbers of the linked panels.
Printer Events to Master .	Printed events to go to master panel printer interface.
User Port B for comp	Computer to plug into which port.
Comms Port priority	Selecting the order of panel redundancy when communicating with monitoring stations.
Common Area	Select a common area for all panels.
No Link Area for this Challenger	Selection of linked areas.
Event Mapper	Mapping local event flags to remote events.
Relay Mapper	Enables relay activation across panels.

Programming Linked Panels

Programming linked panels works in the same way as programming up a standard Challenger system. See relevant sections in Programming Sequence for details.

Program Panel Link .....
Install Menu .....
Input Database .....
Area Database .....
RAS Database .....
DGP Database .....
Alarm Groups .....
Timers .....
System Options .....
Auto Reset .....
Communications .....
Text Words .....
Version .....
Lamp Test .....
Time Zones .....
Defaults .....
User Category .....
Map Relays .....
Arm/Disarm via Tz .....
Vaults .....
Area Linking .....
Site No. .....
Input Shunts .....
Tz to Follow Relays .....
Poll Errors .....
Download .....
Disp Card .....
Edit .....
Tecom Address Mapping
Remote Controllers .....
Security Password .....
Printer .....
Battery Testing .....
Custom Message .....
Program Next Service .....
Program Summary Event Flags
Program Macro Logic ....
Mobile Data .....

PROGRAMMING SEQUENCE

The following can be used as a guide for the order in which records can be programmed when setting up a basic system.

1. Plan the system and fill-out the programming sheets.

In planning the system make sure you define what outputs (Siren/s, Strobe, Relays) will be required.
This will determine the Event Flags that will need to be programmed in the Input, Area, Arming Station, Summary Event Flags, & Shunt Timer databases.

2. **Defaults -** Installer menu option 14, default to STD All (**99 <Enter>)**.

3. To set up options that will determine how the system will operate.

System Options - Installer menu option 7.

4. If any words required for the names of inputs, areas, alarm groups, user categories, etc. in this system are not recorded in the Word Library:

Text Words - Installer menu option 10.

5. If functions available to Users or Arming Stations/Readers are to be restricted by time:
If Arm/Disarm Timers are used:
If Doors or Floors are to be restricted by time:
If Relays are required to be held active/inactive for a specified period:

Time Zones - Installer menu option 13.
Holidays - User menu option 21.
Program Time and Date - User menu option 15.
Also see **Time Zone to Follow Relay** - Installer menu option 22.

6. **Area Database -** Installer menu option 2 for all areas (partitions) in the system.

7. If the special function to allow timing on non-vault area/s is required:
(This function also requires programming in "Sytem Options", "Area Linking", "User Categories" "Timers" and "Alarm Groups". See the programming guide for details.)

Areas Assign to Vaults - Installer menu option 18.

8. If Time Disarm functions are required:
If some of a user's areas are to be restricted to Arm/Reset only:
If "User Count" function is required (see User Category details for information):

User Categories - Installer Menu Option 15.
Note: User Categories are used in Alarm Groups to specify special functions for certain areas.

9. To define User's areas of control and functions available.
To define Arming Station/Reader areas of control and functions available.
(If the pre-programmed alarm groups are not suitable)
To define Arm/Disarm Timer, Area Control Input, and Auto Reset functions.
(If the pre-programmed alarm groups are not suitable)

Alarm Groups - Installer menu option 5.

10. If Access Control is utilized or Cards, insert keys, etc. are used in the system.
To define a user's level of access at door and lift readers/arming stations:

Door Groups/Floor Groups - User Menu Option 20.

11. If the system has more than 16 inputs or has intelligent Access Controllers :

Data Panels - Installer menu option 4.

12. If the system has Intelligent Access Controller DGPs (4 Door Controllers or Lift Controllers):

Remote Controllers - Installer menu option 28. (See special Programming guide/s)

13. **Input Database** - Installer menu option 1 for all inputs in the system.

14. If the system has more than one arming station :

Arming Stations - Installer menu option 3.

15. To record time values applicable to most timed system functions.

Timers - Installer menu option 6.

16. If Event Flags are required for any system events or system alarms:

Summary Event Flags - Installer menu option 34.

17. If Inputs (Door Contacts etc.) are to be shunted (inhibited from being activated for a specified period):

Input Shunts - Installer menu option 21.

18. To define Relay functions for every relay (and siren driver) in the system:

Map Relay - Installer menu option 16.

19. If the System is required to automatically reset alarms in specified areas after a specified period:

Auto Reset - Installer menu option 8.

20. If Areas are required to automatically arm and/or disarm at a specified time:

Arm/Disarm Timers - Installer menu option 17.

21. If an area is to follow the disarm state of other area/s:

Area Linking - Installer menu option 19.

22. If your system is using Magnetic/Proximity/Wiegend Cards, Insert Keys, on RASs (doors) 1 to 16:
Up to two "Site Codes" (or "Facility Codes") may be programmed with the option of a "card offset" value for each Site Code.

Site Code - Installer Menu Option 20.

23. If your system has a printer connected to The Challenger Panel:
(via TS0091 or TS0094 interface fitted to the Panel)

Printer - Installer Menu Option 30.

24. If you require automatic dynamic battery testing or need to manually test a particular battery:

Battery Testing - Installer menu option 31.

25. If you require customised text (up to 32 characters) to appear on the LCD in place of "There Are No Alarms In This Area":

Custom Message - Installer menu option 32.

26. If you require special text to appear on the LCD on a date specified for the next routine service call:

Program Next Service - Installer menu option 33.

27. To ensure system security when Panel is able to communicate with Upload/Download software:

Security Password - Installer menu option 29.

28. If you require output functions (e.g. Relay to pulse), timing functions, control functions or input functions not available with any other installer menu options:
(This may also require programming in several other Installer menu options such as "Inputs", "Areas", "Map Relays", etc. depending on the function/s required)

Macro Logic - Installer Menu Option 35.

29. To program User's PIN codes, Cards etc. into the system and define their functions:

Program Users - User menu option 14.

30. If any of the Intelligent Access Controller DGPs (4 Door Controllers or Lift Controllers) were not connected and polled when "Timezones", "Door/Floor Groups", "Users", and "Holidays" were programmed:

Download - Installer menu option 24.

31. **Communication Options** - Installer menu option 9.

Programmed if the system is reporting to a remote monitoring company.
Programming the Comm. Options last prevents the system from attempting to report before necessary.

32. **Radio Communications** - Installer menu option 36.

Programmed if the system is reporting to a remote monitoring company via Radio Interface.
Programming the Comm. Options last prevents the system from attempting to report before necessary.

The following Installer Menu Options ar e Diagnostic Options only and do not need to be programmed:

11. Version Number ..... Records software version and database revision numbers.

12. Lamp Test ..... Turns LEDs on or off to enable testing.

23. Poll Errors ..... Displays errors in communication between Challenger and units connected to it.

25. Display Card ..... Displays the Site Code and Card I.D. Number of the last card read by a reader connected to the Challenger LAN. i.e. Doors 1 to 16. Diagnostic facility only.

26. Edit ..... Do not use. Diagnostic Facility only.

27. Tecom Address Mapping .... Displays the Physical Address and Reporting Address of Tecom Direct Line Panels. Diagnostic facility only.

PROGRAMMING SEQUENCE

Which Installer Menu Options will I need to program?

1. Input Database ..... Must be programmed for every input used.
2. Area Database ..... Must be programmed for every area (partition) used.
3. Arming Stations ..... Must be programmed for every arming station used.
4. Data Panels ..... Must be programmed for every DGP used.
5. Alarm Groups ..... Must be programmed before users can have any alarm system control. (Alarm groups are assigned to users & arming stations)
6. Timers ..... Records time values applicable to some timed system functions.
7. System Options ..... Records system options. Must be programmed to determine how the system will operate.
8. Auto Reset ..... Programmed if the *Challenger* is to automatically reset after an alarm condition.
9. Communication Options ..... Records the details of the communications link between *The Challenger* and the remote monitoring company &/or computer.
10. Text Words ..... Used to program additional words to the word library. (words unique to this system)
13. Time Zones ..... Records parameters of time zones used to restrict users, auto arm/disarm etc. e.g. 7:00 to 19:00 Monday to Friday.
14. Reset Defaults ..... Resets system to various default settings and allows history to be cleared. The Default Option: 99 - All, should be used before commencing the programming.
15. User Category Data ..... Programmed if users need to control areas differently. (e.g. If Time Disarm, Arm/Reset restriction or User Count functions required)
16. Relay Mapping ..... Must be programmed for every relay used.
17. Arm/Disarm Timers ..... Programmed to disarm & arm area/s automatically.
18. Areas Assign to Vaults ..... Assign areas to be treated as vaults. By using a special programming procedure a user category timer will start when all the vault areas are armed. When the timer expires, a non-vault area linked to the vault areas will automatically arm.
19. Area Linking ..... Links an area to other areas to enable common area control.
20. Site Number ..... Records up to two site identification numbers ("Site Codes" or "Facility Codes") and provides the option of programming two card offset values used in access card codes for readers connected to the Challenger LAN.
21. Input Shunts ..... Programmed to inhibit an input from being activated for a set time period. e.g. Shunt fire doors or access controlled doors.
22. Timezone to Follow Relays ..... Used to program a timezone to be active only when a relay is active.
24. Download ..... Allows User, Door/Lift Group, Timezone, and Holiday data to be downloaded to Intelligent DGPs.
28. Remote Controllers ..... Allows access to Intelligent Door and Lift Controller DGP Programming. *Refer to Separate "4 Door Controller" or "Lift Controller" Programming Guides.*
29. Security Password ..... Records the Security Password required to access the Challenger Panel via any Computer Protocol. e.g. Challenger Management software.
30. Printer ..... Records parameters of printer output. Must be programmed if TS0091 or TS0094 are fitted and connected to a printer.
31. Battery Testing ..... Records parameters of Auto Battery Test options and allows manual testing of battery.
32. Custom Message ..... Records 32 Characters of customised Text which will be displayed on the LCD Arming Station/s in place of the message "There are no Alarms in this Area"
33. Program Next Service ..... Records the date on which the next routine service call is due and the message to be displayed. The client will be prompted with programmable text to call the Security Company, via the LCD Arming Station/s.
34. Program Summary Event Flags ..... Records Event Flags assigned to system functions and system alarms. Programmed if a relay output is required to indicate the function or alarm condition.
35. Program Macro Logic ..... Records details of high level Relay and Event Flag logic programming. Programmed to achieve complex Input and Output functions not possible with other programming options. e.g. Pulsed outputs, function to activate multiple event flags, etc.
36. Radio Communications ..... Records the details of the radio communications link between *The Challenger* and the remote monitoring company.
37. Panel Link .....

38. Panel Link Programming .....

PROGRAMMING SEQUENCE

The Version 8 Programming diagram on the opposite page, illustrates how the main Challenger Programming options interact with each other to achieve the flexibility which allows the system to be configured in so many different ways.

Notes 1. Shaded boxes are User Menu Options

2.* Event Flags.
Pre-assigned & Assigned via programming, to: Input Database, Area Database, Arming Station Details (Door Event Flag) System alarms and system functions ("Program Summary Event Flags"), and Input Shunts (Shunt and Shunt Warning Events).

3.** Timezones. 1 to 24. Start/End Times & Days.
25. Service. (Do not use in Door Groups & Floor Groups)
26 to 41. Timezone to follow relay. (Do not use in Door Groups & Floor Groups)

> Note the focus on the "Alarm Groups" option. Understanding Alarm Groups is one of the keys to understanding Challenger Programming.
> You will find the "Alarm Groups" introduction on page 39 very helpful.

It is important to understand how user functions and arming station functions are defined.
As the diagram illustrates;

USERS:

In order to restrict a **user** to specific areas, system functions, doors/lifts and floors, a User can be assigned:

1. An Alarm Group - To determine what **areas** the user can control, what **level of control** the user has, and what **user menu options** the user has access to.
A timezone during which the Alarm Group is valid may also be specified.

2. A Door Group - To specify the **door/s** that the user has access to and **a timezone** during which each door in the group may be accessed.
(Each door in the group is assigned it's own timezone)

3. A Floor Group - To specify the **floor/s** that the user has access to and **a timezone** during which each floor may be accessed.
(Each floor in the group is assigned it's own timezone)

See: Version 8 Challenger User Guide, Menu Option 14 - Program Users.

ARMING STATIONS:

In order to restrict an **arming station** to control specific areas and allow specific system functions, each arming station can also be assigned alarm groups.

The alarm groups assigned to the arming station specifies what **areas** can be controlled, **the level of control** available, and the **user menu options available** from the arming station.

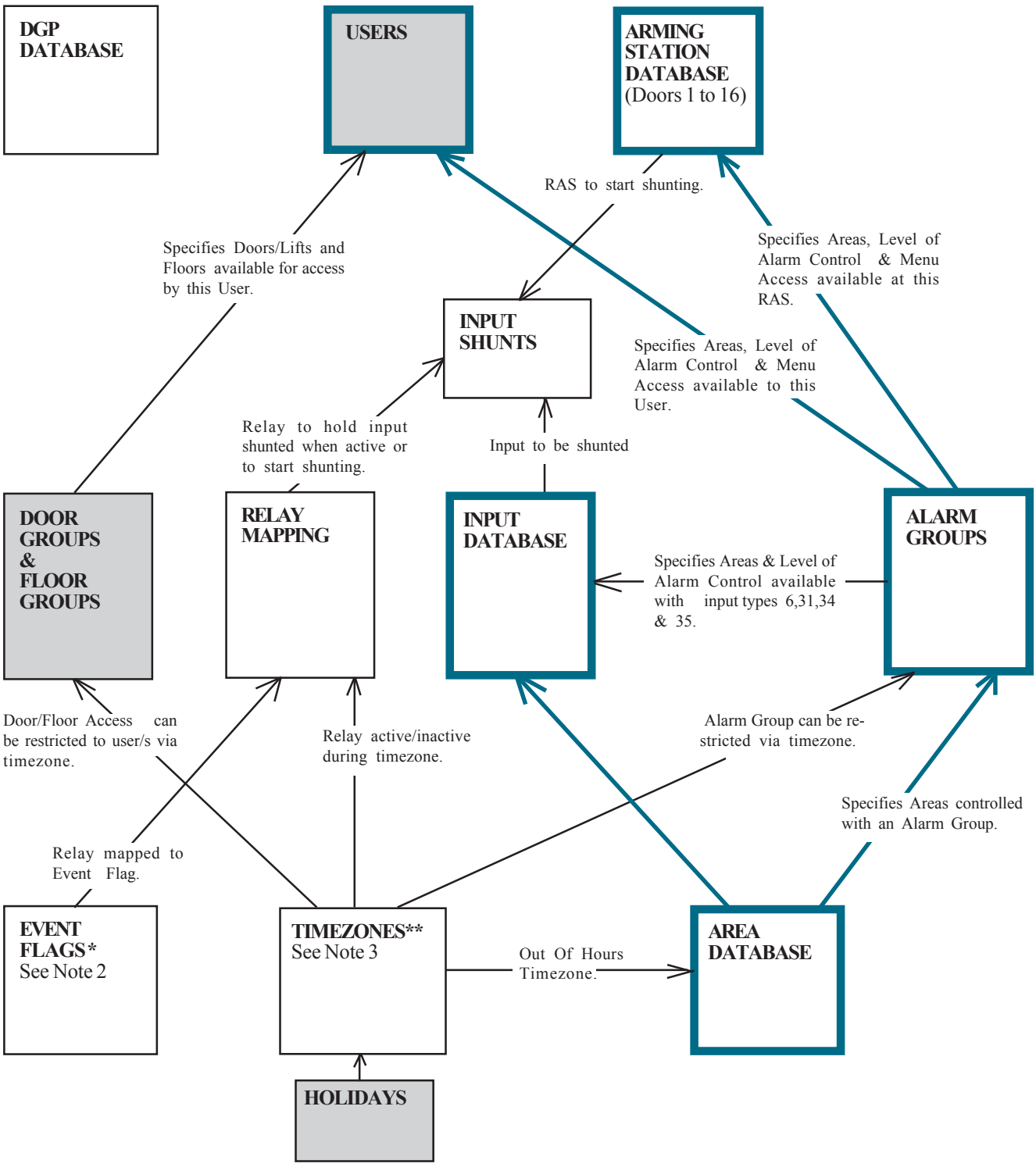
The functions of an arming station are also affected by the way in which the arming station details are programmed.
e.g. The door function, the keypad operation, card function options, etc.

SYSTEM OPERATION:

Whenever a User attempts to perform any alarm system functions at an arming station the area/s and functions specified in the user's alarm group and the arming stations alarm group/s are compared to determine what operations are allowed.

PROGRAMMING SEQUENCE

Must be programmed in basic system.
Must be programmed if option is used.



DEFAULTS

PROGRAMMING DEFAULTS

The Challenger Panel is supplied with a set of factory defaults in the programming to make initial set-up easier.

Inputs 1 to 16 are set to Type 2 - Secure Alarm with the SIREN Event flag & Event flag 2 (Strobe) set to YES.

All Area Databases have Exit time of 60 secs & Entry time of 30 secs, and the SIREN Event flag set to 1.

Arming Station 1 is programmed to be polled, and is assigned Alarm Group 2 (Master RAS).

There are 29 pre-programmed Alarm Groups. (See Table 4 & Installer Menu Option 5 for details)

In System Options, Film Low is set to 800.
Film Out is set to 1100.

Most of the Timers have a default value programmed. (See Installer Menu Option 6 for details)

In Communication Options, Reporting format is Contact ID-Large. Area 1 is listed for Open/Close reporting.

Relay Mapping. Relay 2 (Strobe O/P) is mapped to Event Flag 2.
Relay 16 (Siren driver) is mapped to Event Flag 1.(See Siren Event Flag-Area Database)
The 16th relay assigned to each DGP (DGP Siren drivers) are also mapped to Event Flag 1. i.e. Relay 32, 48, 64, etc.

User 50, the Tecom Master Installer Code is allocated:
Alarm Group 3.
Door Group 1.
PIN code 4346.

INPUT DATABASE 1

This function is used to record information relating to an individual input.

This information includes:

- The input number.
- The name of the input.
- The input type.
- The method of input reporting to the monitoring company. (For Contact ID reporting formats)
- Areas or Alarm Groups assigned to the input.
- Test option assigned to the input.
- The event flags that the input can activate:

  a/ With pre-determined functions (YES/NO option)
  - Siren
  - Console Warning (Audible Alert)
  - Camera
  - Secure Alarm Flag (x8)
  - Access Alarm Flag (x3)
  - 24 Hour Alarm Flag

  b/ With choice of function
  - Selected event number

- Event flag operation option (YES/NO). "Make All Events 24 Hour".
- Print input when unsealed (YES/NO).

INPUT NUMBER

Inputs are numbered between 1 and 256.

Refer to : Numbers - Inputs/DGPs/Relays

The display will show:

```
Input Database.
Input:
```

? Enter ~ Enter the number of the input to be programmed and move to the next input database display.

or **Enter** ~ Return to the Installer menu.

INPUT DATABASE

INPUT NAME/DESCRIPTION

The name/description of an input will appear on the display during many *Challenger* User functions.
The descriptive information programmed for the input, and which becomes the input name, should therefore enable easy recognition of that input.

The name may consist of up to 4 words (called text words) and each word can be further categorized by the use of a number between 1 and 255 (called a text variable).
These text variables enable you to use the same words to describe more than one input. (The variation between the inputs is shown by the numbers - building 1, building 2 etc.)

An input can therefore consist of up to 8 separate components - 4 words and 4 numbers (maximum 36 characters). A component cannot however be a number on its own. A number must relate to a preceding word.

Examples: Office 4 Door 1 Contact
Office 5 Door 1 Contact
Workshop PIR 6
Building 6 Area 4 Room 1 Door 6

The words used to describe an input are selected from a list of words already held by *The Challenger*. These words can either be from the list of standard words available with every system - *Refer to:* Word Library - Table 2. or from a list of words which you have programmed - *Refer to:* Installer menu option 10 - Text Words.

Each word has a reference number.
When programming the input name, each word is recorded by using it's reference number.

INPUT TYPE

The input type determines exactly how the input will function in given circumstances - *Refer to:* Input Types - Table 1 for explanations.

Each input type has been given a name and reference number and is programmed using the reference number.
Inputs 1 to 16 default to Type 2 - Secure Alarm. All other inputs are defaulted to Type 0 - No input type.

The input type selected here will also determine whether the input will function using areas or an alarm group. The appropriate option is displayed when programming the remainder of the input database.

Note: The input type is significant and influences much of the remaining programming and functions of the system. Careful attention should be given to the explanation of input types.

Camera Count Input types (Types 23-26 & 36-39) **must always** be connected directly to the Challenger Panel inputs and **not** to DGP inputs.

The display will show the current description for the input selected:
eg.

```
1: Office 4 Door 20 Contact
Text Word 1:
```

The programming sequence will guide you through the displays to record each new word or number. New words/numbers will be displayed on the top line as they are entered and each prompt for a new word or number will be shown on the second line in the following sequence : Text Word Number 1, Text Variable 1, Test Word Number 2, Text Variable 2, Text Word Number 3, Text Variable 3, Text Word Number 4, Text Variable 4.

From any of the displays as above you may:

***** ~ Save the word or number corresponding to that shown in the prompt on Line 2 and move to the next word or number. (eg. If prompt is Text Word Number 3: the current text word 3 will be saved).

or **? Enter** ~ Enter and display the new text word reference number or the text variable number corresponding to the prompt on line 2 and move to the next word or number in the sequence.

and/or **Enter** ~ Save the complete input description as shown and go to the next input database display.

The display will show the current input type for the selected input:
eg.

```
1: Type 3, Entry Exit Alarm
Type:
```

? Enter ~ Enter and display a new input type number.

and/or **Enter** ~ Save the displayed input type and go the next input database display.

METHOD OF INPUT REPORTING

This record will depend on the way the system is reporting to the monitoring company and on how you have programmed the Dialler Options.
Refer to: Installer menu option 9 - Dialler Options.

a/ The system is reporting to the monitoring company using the Ademco CONTACT-ID formats.
Refer to the list of contact ID message types - Table 5.

OR

b/ The system is reporting to the monitoring company using the Ademco Extended High Speed format.
If reporting in this format Area and Channel number allocation for each input is predefined. *See Table 5*

Note: These records are not required if the system is reporting to the monitoring company via a direct line or a Tecom Dialler.

The display will show the existing details:
eg.

```
1: 25-140, General Alarm
Report ID:
```

? Enter ~ Enter a new contact ID message type number. The new type number, code and classification will be displayed.

and/or **Enter** ~ Save the displayed information and go to the next Input Database display.

AREA ASSIGNMENT

This record allows you to relate an input to areas. It will not be displayed if the Input Type is 6, 31, 34 or 35.
(see alarm group below)

The areas which should be assigned to an input are those where:

- The condition of the input (sealed/unsealed) directly affects the area alarm status.
  eg. unsealed input durring the active period = area in alarm.

- The status of the area (access/secure) affects the function of an input.
  eg. unsealed input generates alarm only if the areas assigned to it are in the active period.

The interaction between the input and the areas assigned to it will depend on the Input Type programmed for the input.

CAUTION! Inputs MUST have at least one area assigned. It is impossible to reset an alarm on an input that has no area assigned.

The display will show the existing areas:
eg.

```
1,2,3,7,8,
Area:
```

? Enter ~ Add/Delete an area.
If the area entered is not recorded, it will be added and displayed.
If the area entered is already recorded, it will be deleted and removed from the display.

Enter ~ Save the displayed areas and move to the next input database display.

OR

ALARM GROUP

This record allows you to assign an alarm group to an input. It will be displayed instead of Area if the Input Type is 6, 31, 34 or 35.
The function of the alarm group will depend on the Input Type programmed for the input.

These input types would be used for key switches etc. to arm/disarm areas. i.e. Causes the input to act like a user entering an alarm control code.

The display will show the existing access level:
eg.

```
Input: 2 Alm Grp 12
Alarm Group:
```

? Enter ~ Enter and display a new alarm group.

and/or **Enter** ~ Save the displayed alarm group and move to the next input database display.

TEST OPTION

This function determines the testing procedure for the input. It relates to the access and secure tests and does not affect manual tests on individual inputs.
There are 4 test procedure options, each identified with a reference number. A testing procedure is programmed using the reference number.

Refer to: Table 3 for an explanation of each Test Type.

Note: This record will not be valid unless the *Test Mode* is programmed appropriately in Installer menu option 7 - System Options.

The display will show the current test type for the selected input:
eg.

```
1:  2, Tested In Secure Test & Access
Test Type:
```

? Enter ~ Enter and display a new test type.

and/or **Enter** ~ Save the displayed test type and move to the next input database display.

EVENT FLAGS

There are up to 15 event flags which can be assigned to an individual input.

An event flag is activated when the input is in alarm.

The circumstances which cause an input to generate an alarm depend on the input type.

The event flags which are activated by that alarm depends on:
- Which event flags have been assigned to the input.
- Whether the active time of those event flags corresponds with the alarm time. Event flags may be active:
  24 Hours
  During access only - when one or more of the areas assigned to the input is disarmed
  During secure only - when all the areas assigned to the input are armed.
- Whether the option *"Make All Events 24 Hour"* has been set to YES thereby making the active period 24 hours for all event flags.
- The input type. Input types 6, 7, 9, 10, 12, 16, 17, 18, 19, 23, 24, 25, 26, 27, 31, 34, 35, 36, 37, 38, 39, 48, 49, 50, 51, 52, 53, 54 & 55 do not activate any of the event flags programmed in the event assignments detailed here.

Note: 1. Event flags are also assigned to areas and are activated by any of the inputs with that area assigned to them. Therefore, an input may activate an event flag assigned to it on the input database, or it may activate an event flag assigned to one of its areas.
eg. Area event flag - Siren to sound when any input in the system is in alarm.
Input event flag - Light to flash above a door which has caused an alarm.

2. The output results of event flags are not defined anywhere (except those with pre-determined functions). Each event flag is mapped to a relay (menu option 16) which controls the end function. To facilitate accurate mapping it is important that you make a note of which event flag numbers are to activate which end functions.

INPUT DATABASE

The 15 event flags which can be assigned to an input, can be defined as follows:

- Selected Event Flag: (Active 24 Hours)
  This record allows you to set another event flag (which is not pre-determined, and apart from those already set) which will be activated at any time an alarm is generated by the input. The end function will depend on the individual system. It is typically used to control relays for noise makers or mimic LEDs etc wherever an indication of individual input status is required.

- Siren Event Flag: (Active during secure)
  If set at YES, the siren event flag specified in the area database will be activated when an alarm is generated by the input, and all the areas assigned to the input are armed.
  The on-board siren generator/s will also be activated if mapped to the siren event flag/s; and will run for the siren time programmed on Installer menu option 6 - Program Times.

  Note: If siren event flag is to operate, you must also program the siren event flag number in the Area Database for each of the areas which will activate sirens and which are assigned to the input.
  Refer to: Installers menu option 2 - Area Database.

- Console Warning Event Flag: (Active 24 Hours)
  If set at YES, any time an alarm is generated by the input, the console warning is activated on consoles which control areas which are assigned to the input.

- Secure Alarm Event Flags: (Active during secure)
  If set at YES, the event flag will be activated when an alarm is generated by the input, and all the areas assigned to the input are armed.
  There are 8 secure alarm event flags.

- Access Alarm Event Flags: (Active during access)
  If set at YES, the event flag will be activated when an alarm is generated by the input, and one or more of the areas assigned to the input is disarmed.
  There are 3 access alarm event flags.

- 24 Hour Alarm Flag: (Active 24 Hours)
  If set at YES, the event flag will be activated at any time an alarm is generated by the input.

- Camera Event Flag: (Active 24 Hours)
  If set at YES, the camera event flag programmed in the area database will be activated at any time an alarm is generated by the input.
  Note: If camera event flag is to operate, you must also program the camera event flag number in the Area Database for each of the areas which have cameras and which are assigned to the input.
  Refer to: Installers menu option 2 - Area Database.

Note: **The event flag numbers used in this record (except for "Selected", "Siren", & "Camera") are pre-defined. It is recommended that these numbers are not used elsewhere in the system, even if they are not used when programming inputs.**
Refer to: **Table 6 - Pre-set Event Flags.**

Programming:

The programming procedure for the selected event flag is as follows.
The display will show the current selected event flag:
eg.

```
Input Will Activate Event: Flag ???
Event Flag:
```

? Enter ~ Enter and display a new event number.

and/or **Enter** ~ Save the displayed event number and move to the next option.

All the pre-defined event flags have 2 options, YES or NO. The programming procedure is the same for each event flag:

The display will show the current setting:
eg.

```
NO - Console Warning
*-Change  0 - Skip
```

***** ~ Change NO to YES or YES to NO and display the new setting.

and/or **0** ~ Save the displayed setting and exit the pre-defined events displays and move to the selected event display.

and/or **Enter** ~ Save the displayed setting and move to the next pre-defined event display.

INPUT DATABASE

The sequence of event flag displays will be as follows:

Selected Event Flag
Siren (Assign by Area)
Console Warning

Make All Events 24 Hour - see below

Secure Alarm (Event Flag 2)
Secure Alarm (Event Flag 3)
Secure Alarm (Event Flag 4)
Secure Alarm (Event Flag 5)
Access Alarm (Event Flag 6)
Access Alarm (Event Flag 7)
24 Hr Alarm (Event Flag 8)
Secure Alarm (Event Flag 9)
Secure Alarm (Event Flag 10)
Secure Alarm (Event Flag 11)
Secure Alarm (Event Flag 12)
Access Alarm (Event Flag 13)

Camera (Assign by Area)

Examples of displays:

Input Will Activate Event: Flag ???
Event Flag:

YES - Siren Event, Program in Area DB
*-Change 0 - Skip

NO - Console Warning
*-Change 0 - Skip

MAKE ALL EVENTS 24 HOUR

NO- Make All Events 24 Hour
*-Change 0 - Skip

YES - All event flags assigned to this input will be active 24 hours.
If the input is in alarm the event flags will be activated.

NO - Event flags follow access/secure criteria as previously specified.

YES - Event Flag 2, Secure Alarm
*-Change 0 - Skip

NO-Camera Event, Program in Area DB
*-Change 0 - Skip

PRINT INPUT WHEN UNSEALED

YES - If set at YES, any time an the input changes from sealed to unsealed, it will print an event indicating the input is unsealed.
The event is only sent to printer and computer (if connected)

The display will show the current setting:
eg.

NO - Print Input When Unsealed
*-Change 0 - Skip

[*] ~ Change NO to YES or YES to NO and display the new setting.

and/or **Enter** ~ Save the displayed setting and return to the installer menu.

AREA DATABASE 2

This function is used to record information relating to an individual area.

This information includes:
- The area name.
- Entry & Exit time allowed (time allowed between entry/exit and disarm/arm before an alarm is generated).
- The output event flags which can be activated for the area:

Siren	Local Alarm
Access	Exit
Unsealed	Entry
Isolated	Warning
Secure Alarm	Camera
Access Alarm	Pre-Alarm

- Out Of Hours Time Zone
- Disarm Time

AREA NAME

The word(s) used as an area name are selected from a list of words already held by *The Challenger*. These words can either be from the list of standard words available with every system - *Refer to*: Word Library Table 2 or from a list of words which you have programmed - *Refer to:* Installer menu option 10 - Text Words.

When programing the area name, the word is recorded by using it's reference number. (An area name may be more than one word but only if those words are recorded under one reference in the word library.)

The display will show the current area name, preceded by the reference number for the word(s) used in that name:
eg.

```
Area Name: 0260, Workshop
Word No:
```

? Enter ~ Enter and display the text reference number for a new area name.

and/or **Enter** ~ Save the displayed area name and go to the next area database display.

ENTRY/EXIT TIMES

This record determines the amount of time allowed between entry to an area and disarming of that area and, between exit from an area and arming of that area. If the programmed time is exceeded, an alarm will be activated.

Only one entry and one exit time can be programmed for each area.

An entry/exit time only applies where the area has been assigned to an input which is programmed with input type 3, 4, 13, or 14, 41 & 42 which use the entry/exit timers.

Note: If different areas are programmed with different entry/exit times and a user code is programmed to arm/disarm more than one area, the longest time is used.

The display will show the existing time settings for the area as well as indicate whether the entry or exit time is currently running, and the amount of time still to run (shown after the area number):

I	=	Entry time
O	=	Exit time
O43	=	Exit time running and 43 seconds left

eg.

```
Area 1: >Exit-Time 60 Entry-Time 30
Exit:
```

***** ~ Update the *time running.*

or **Enter** ~ Save the displayed exit time and move to the display to record entry time.

or **? Enter** ~ Enter a new exit time and move to the display to record entry time.

The next display will allow you to record the entry time:
eg.

```
Area 1: > Exit-Time 60 Entry-Time 30
Entry:
```

EVENT FLAGS

There are up to 11 event flags which can be assigned to an area.

These event flags are activated when any of the inputs which have the area assigned to them in the input database, is in a condition specified in the event.

- The circumstances which cause an input to be in a certain condition depends on the input type.
- The event flags which are activated depend on which event flags have been assigned to the area.
- It is not possible to exclude an input in an area if the other inputs in that area are to activate the area event flag. If the area event flag is programmed with a number, all the inputs in the area will activate it.

Note: Event flags are also assigned to individual inputs and are activated when that input generates an alarm. Therefore, an input may activate an event flag assigned to it in the input database or it may activate an event flag assigned to one of it's areas.

eg. **Area event flag** - siren to sound when any input in the system is in alarm.
Input event flag - a light to flash above a door which has caused an alarm.

Some event flags are pre-defined - *Refer to*: Table 6 - Pre-set Event Flags.

Note: When activated, most of the event flags assigned to an area will provide an indication of area status (Alarm etc.) on key switch or dumb keypad units.

PROGRAMMING

The programming is the same for all the output event flags.

The display will show the existing setting: *eg.*

```
Area 1: Access Event Flag ??
Event Flag:
```

? Enter ~ Enter and display a new output number.

and/or **Enter** ~ Save the displayed output number and move to the next area database display.

SIREN EVENT FLAG

This event flag is activated when an input assigned to the area is in alarm , and the input has the Option "Siren Event" set to YES.
A relay number representing the siren output is then mapped to this event flag number in Option 16 - Relay mapping.

Defaulted to Event Flag 1 in V8.10 / V7.10 or later.

See: "Siren Outputs" in the Numbering section on page 18.

Example of display:

```
Area 1: Siren Event Flag ??
Event Flag:
```

AREA ACCESSED EVENT FLAG

This event flag is activated when the area is in access.

```
Area 1: Accessed Event Flag ??
Event Flag:
```

UNSEALED EVENT FLAG

This event flag is activated when an input which has this area assigned to it on the input database, is unsealed.

```
Area 1: Unsealed Event Flag ??
Event Flag:
```

Example of display:

ISOLATE EVENT FLAG

This event flag is activated when an input which has this area assigned to it on the input database, is isolated.

Area 1: Isolate No Event Flag
Event Flag:

SECURE ALARM EVENT FLAG

This event flag is activated when an input which has this area assigned to it on the input database, is in alarm and the area is armed.

Area 1: Secure Alarm Event Flag ??
Event Flag:

ACCESS ALARM EVENT FLAG

This event flag is activated when an input which has this area assigned to it on the input database, is in alarm and the area is disarmed.

Area 1: Access Alarm Event Flag ??
Event Flag:

LOCAL ALARM EVENT FLAG

This event flag is activated when an input which has this area assigned to it on the input database, generates a local alarm.

Area 1: Local Alarm Event Flag ??
Event Flag:

EXIT EVENT FLAG

This event flag is activated when the exit timer for an area is counting down.

Area 1: Exit Timer Event Flag ??
Event Flag:

ENTRY EVENT FLAG

This event flag is activated when the entry timer for an area is counting down.

Area 1: Entry Timer Event Flag ??
Event Flag:

WARNING EVENT FLAG

This event flag is activated when:
- A user category timer for the area is running and has reached the warning time that indicates that the area is about to arm.

or
- Test mode is operating and reaches the warning time to indicate the test is due to end.

Area 1: Warning Timer Event Flag ??
Event Flag:

CAMERA EVENT FLAG

This event flag is activated when an input which has this area assigned to it on the input database, and the option "Camera Event" set to YES, is in alarm.
The Camera Event flag can be reset by "0 <Enter>", after using <Enter> <Enter> to display the alarm.
See User Guide.

Area 1: Camera Event Flag ??
Event Flag:

PRE-ALARM EVENT FLAG

This event flag is activated when a delayed holdup input which has this area assigned to it on the input database, is in alarm. The event flag is only activated for the delayed period.
May be used to provide visual indication to the user that the delayed button is active via discreetly positioned LED.

Example of display:

```
Area 1: Pre-Alarm Timer Event Flag ??
Event Flag:
```

OUT OF HOURS TIMEZONE

A report is generated if the area is in access outside the timezone programmed.
See "Network Events" tables for report messages.
Not reported on Contact ID-Small or Securitel.

```
Out Of Hour Tz: 0
Enter Tz:
```

AREA DISARM TIME

The user category timer will use the time programmed here as the disarm time instead of the user category time if this time is not 0.
i.e. The "Area Disarm Time", if programmed, overrides the "User Category Time".

Note: If a "User Category time" programmed in option 6 is set to "0", to specify that the timer will not time out, the "Area Disarm Time" will not be relevant with that User Category.

```
Area Disarm Time: 0 Mins
Enter Mins:
```

ARMING STATIONS 3

This function is used to record information relating to individual arming stations.

This information includes:

- All arming station numbers (to be polled)

For individual arming stations:
- Area Alarm Group - determines areas controlled via the RAS.
- Menu Alarm Group - determines areas available for viewing status only.
- Door function via the RAS.
- RAS relay group.
- Define arming station type: (LCD)
- Option (YES/NO) to set use of OFF/ON codes when arming/disarming.
- Option (YES/NO) to set use of ENTER key to open door only. (Cannot be used for arming/disarming)
- Code validity control for door function.
- Option (YES/NO) to display when arming station is shunting an input.
- Option (YES/NO) to arm/disarm using one key.
- Option (YES/NO) to enable cards to auto disarm.
- Option (YES/NO) to enable cards to always arm and disarm.
- Option (YES/NO) to allow reset of alarm without a code.
- Option (YES/NO) to set the arming station to only allow group function of disarm.

ARMING STATIONS TO BE POLLED

This records the arming station numbers of all the arming stations connected to *The Challenger.*

The arming stations listed here will be polled by the main control panel.

Polling allows the arming station to transfer data to the control panel.

The display will show the arming stations currently recorded:
Note:
Arming Station No. followed by **,** = on-line
Arming Station No. followed by **:** = off-line

eg.

```
1,2,3:4,
 Poll RAS:
```

***** ~ Update the display to show the latest on-line/off-line status.

or **? Enter** ~ Add/Delete an arming station. If the number entered is not recorded, it will be added and displayed.
If the number entered is already recorded, it will be deleted and removed from the display.

and/or **Enter** ~ Save the displayed arming stations and move to the display to select an individual arming station.

AREA ALARM GROUP

An alarm group is given to determine the areas which can be controlled via this arming station, the functions which can be performed via this arming station, etc.
Both the alarm group of the arming station and the alarm group of the user performing the functions must permit an action before it will be valid.

Refer to: Installer menu option 5 - Alarm Groups for complete details on how alarm groups operate (see also the next section of program arming stations)

MENU ALARM GROUP

This second alarm group is valid only when a user is performing user menu functions which require information to be displayed for areas other than those controlled by the particular arming station. eg. Display Panel Status.

The menu alarm group allows these areas to be displayed in status reports but they cannot be controlled via the arming station where the report is requested.

If the menu alarm group is programmed for No Access then the arming station will use the same alarm group for menu access as programmed in the area alarm group.

DOOR FUNCTION

This record allows you to program this arming station to be used for opening a door.

The event assigned in this record will be activated when a valid code is entered at the arming station (*Refer to* the next record to determine the code validity)

The Event Flag is active for the "Door/s Access Time" programmed in Option 6 - Timers.

Select Arming Station:

The display will show:

```
Arming Station Details
RAS No:
```

Enter ~ Return to the Installer menu.

or **? Enter** ~ Select the arming station to be programmed and move to the next display.

The display will show the existing area alarm group:
eg.

```
RAS:2 Alm-Grp: 2-Master RAS or Door
Alm-Grp:
```

? Enter ~ Enter and display a new alarm group.

and/or **Enter** ~ Save the displayed alarm group and move to the next display.

The display will show the existing menu alarm group:

eg.

```
RAS:2 Alm-Grp: 1-No Access
Menu Alm-Grp:
```

? Enter ~ Enter and display a new alarm group.

and/or **Enter** ~ Save the displayed alarm group and move to the next display.

The display will show the existing door event flag number:

eg.

```
RAS 2 Door Event Flag ?
Event Flag:
```

? Enter ~ Enter and display a new event flag.

and/or **Enter** ~ Save the displayed event flag and move to the next display.

RELAY CONTROL GROUP

This record allows you to set a relay control group for an arming station.

This relay control group is then used to drive relays on the arming station. *See :* Arming Station Installation Guides.

A Relay Control Group MUST NOT be assigned to TS0002, TS0004 or TS0210 16 Area Arming Stations.

Refer to : Numbers Inputs/DGPs/Relays

Note: The last 10 records are for individual arming stations however the number of the arming station you are programming is not shown on the display.

The display will show the existing relay group:
eg.

```
RAS:3 Can See Relays From Group 1
Relay Grp:
```

? Enter ~ Enter and display a new relay group.

and/or **Enter** ~ Save the displayed relay group and move to the next display.

PROGRAMMING

The programming procedure is the same for each of the last 12 records.

The display will show the existing setting:
eg.

```
NO - Door Event Flag On Alarm Codes
*-Change  0 - Skip
```

***** ~ Change NO to YES or YES to NO and display the new status.

or **0** ~ Save the displayed setting. Exit the records for this arming station and move to the display to select another arming station

or **Enter** ~ Save the displayed setting and move to the next display for this arming station.

LCD ARMING STATION

YES - The arming station has an LCD (Liquid Crystal Display)

NO - The arming station has no LCD. e.g. Mag Card Reader or 4 LED RAS.

Example of display:

```
YES - LCD Arming Station
*-Change  0 -  Skip
```

TOGGLE KEYBOARD CONTROL

This record relates to the arm/disarm procedure.

YES - A user code or magnetic card swipe followed by ENTER can be used to arm and disarm areas. Note: - This form of control is NOT recommended.

NO - A user code or magnetic card swipe followed by ON (arm areas) and OFF(disarm areas) must be used.

Refer to: Table 7.
Refer to: Arm/Disarm procedures in the User Guide.

Example of display:

```
NO - Toggle Keyboard Control
*-Change  0 - Skip
```

ENTER KEY OPENS DOOR ONLY

YES - A user code followed by ENTER key can only be used for Door functions, and not to arm & disarm areas & reset alarms.

Example of display:

```
NO - Enter Key Opens Door Only
* - Change  0 - Skip
```

VALID CODES FOR DOOR FUNCTION

This record determines which codes will be valid for door operation if an appropriate Door Group is assigned to the user.

YES - The door event flag will operate when any valid code is used (Alarm or Door code). Will operate in conjunction with <ENTER>, <ON> or <OFF> keys.

NO - The door event flag will only operate using a door code.

Example of display:

```
NO - Door Event Flag On Alarm Codes
*-Change  0 - Skip
```

DISPLAY SHUNTING ON RAS

YES - The arming station will display when an input is being shunted by the arming station.

NO - No visual indication of shunting will be given. (Shunt warning will still sound console beeper)

Example of display:

```
NO - Display Shunting On LCD
*-Change  0 - Skip
```

Example of Shunting displays:

```
Suppressed
Code:
```

```
Suppression Ending
Code:
```

DISARM/ARM USING ONE KEY

YES - This will force the area (number) equivalent to the key being pressed to change from access to secure or secure to access without pressing the ENTER, key.

CAUTION: See Table 7 for details before selecting this option.

NO - Follows normal arming/disarming procedure.

Example of display:

```
NO - Disarm/Arm Using One Key
*-Change  0 - Skip
```

CARD AUTO DISARMS *

YES - The area/s assigned to the User & RAS in their Alarm Groups will automatically Disarm when Card is presented to Access.

NO - Card only activates the Door Function unless the next option is set to YES or ON/OFF buttons are used.

Refer to: Table 7.

Example of display:

NO - Card Auto Disarm
*-Change 0 - Skip

CARD ALWAYS DISARM/ARMS *

YES - The area/s assigned to the User & RAS in their Alarm Groups will automatically Disarm or Arm when Card is presented to Access.
"Toggle Keyboard Control" must be set to YES.

NO - The card only activates the Door Function unless the previous option is set to YES or ON/OFF buttons are used.

Refer to: Table 7.

* Note that the Card User's Alarm Group and the Arming Station's (reader's) Alarm Group must both allow Arm &/or Disarm functions before a card can be used to Arm/Disarm.

Example of display:

NO - Card Always Disarm/Arms
*-Change 0 - Skip

RESET WITHOUT CODE

YES - It is not necessary for a user to enter a code to reset alarms which have occurred in areas assigned to this arming station access level.
Alarms can be reset by pressing Enter twice (display areas in alarm) + "0 Enter" to reset alarms.

Example of display:

NO - Reset From RAS Without Code
*-Change 0 - Skip

RESTRICT USER CATEGORYS TO DISARM ONLY

YES - This arming station can only be used for user category functions if the user category function is to disarm and extend timers. It cannot be used for the user category function of arm and reset.

Example of display:

NO-Restricted User Category To Disarm
*-Change 0 - Skip

CARDS ARM AFTER 3 BADGES

YES - 3 badges of a valid card within 10 seconds will arm the assigned area(s).

NO - Default setting.

Example of display:

NO-Cards arm after 3 badges
*-Change 0 - Skip

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DATA PANELS 4

This function is used to record information relating to Data Gathering Panels:

- All DGP Numbers (to be polled).
- DGP Type.

DGPs TO BE POLLED

This records the Data Gathering Panel numbers.
The DGP's listed here will be polled by the main control panel.

Polling allows the Data Gathering Panel to transfer data to the control panel.

Intelligent Access Controller DGPs (TS0067, TS0069 etc) must not be addressed higher than Address 12.

De-polling a DGP will clear all Alarms for inputs and System points for that DGP address.
(If the next DGP address number is not being polled, alarms on any of the 32 inputs that could belong to the DGP are cleared)

Refer to: Numbering - Inputs/DGPs/Relays/Doors

The display will show the DGPs currently recorded:
Note: DGP number followed by **,** = on-line
DGP number followed by **:** = off-line

eg.

```
1,2,3:5,
Poll DGP:
```

***** ~ Update the display to show the latest on-line/off-line status.

or **? Enter** ~ Add/Delete a data gathering panel.
If the number entered is not recorded, it will be added and displayed.
If the number entered is already recorded, it will be deleted and removed from the display.

and/or **Enter** ~ Save the displayed DGPs and move to the display to record individual DGP types.

Select DGP:

The display will show:

```
DGP Details
DGP No:
```

Enter ~ Return to the Installer menu.

or **? Enter** ~ Select the DGP to be programmed and move to the next display.

DGP TYPE

This records the type of DGP being polled.

0 = Standard
1 = Door Controller
2 = Lift Controller

Example of display:

```
Standard
Type:
```

? Enter ~ Select the DGP type.

and/or **Enter** ~ Save the displayed type and return to the previous display.

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ALARM GROUPS 5

This function is used to record information relating to alarm groups.

An alarm group is a feature which is used to define a group of *Challenger* alarm functions.

By assigning specific menu options, panel operations, areas and time zones to an alarm group, that alarm group can then be used to control the way in which *The Challenger* is used.

Alarm groups are assigned to Users, and to each piece of equipment with which the user performs a function (Arming Stations, Doors 17 to 64, and Area Control Input types 6, 31, 34 & 35). This provides *The Challenger* with a feature which enables enormous flexibility when determining a User's access to, and control of, the system.

WARNING

You must be extremely careful when changing alarm groups. Both the functions performed by users with that alarm group, and the functions available at remote arming stations and door readers with that alarm group, will be affected. Using Panel Link, alarm groups assigned to users will be standard over all linked panels. The contents of those alarm groups will vary from panel to panel. For example, alarm group 11 on Panel 2 may not be the same as alarm group 11 on Panel 10.

Note: A function provided to a user via their alarm group, is only valid when:

- Program settings in other sections of the same alarm group allow it.
  eg. Restricting alarm system control to *Reset Only* would be invalid unless the alarm group has been allowed alarm system control in the first place. If the record Restriction *Reset Only* is set to YES, the record *Alarm System Control* must be set to YES.

- The program setting is the same in the user's alarm group as it is in the alarm group of the RAS or door they are using.
  eg. If the record *Prompt with List of Areas* is set at YES in the user's alarm group, it must also be set at YES in the alarm group of the RAS or door. If it is not, areas will not be listed when arming/disarming.

- The areas assigned to the user's alarm group include the areas assigned to the alarm group of the RAS or door they are using.
  eg. If a user's alarm group has areas 1,2 & 3 and the alarm group of the RAS or door has areas 2 & 3, the functions for areas 2 & 3 only, would be valid.

- The time zones assigned to both the user's alarm group, and to the alarm group of the RAS or door must both be on a valid time.

The information which is defined in an alarm group is as follows:

- Alarm group name.
- Areas assigned to the alarm group.
- Alarm group definition (User).
- Option to allow alarm system control.
- Option to list areas when arming/disarming.
- Option to allow keyboard duress.
- Option to prevent user from automatically deisolating inputs in the area he disarms.
- Option to allow alarm system control - Arm and reset only.
- Option to allow alarm system control - Disarm only.
- Option to allow alarm system control - Reset only.
- Option to have unsealed inputs automatically isolated when this alarm group is used for arming.
- Option to force arming if there are unsealed inputs when this alarm group is used for arming.
- Option to prevent disarming if there are unsealed inputs when this alarm group is used for disarming.
- Option to allow modem control.
- Option to allow user categorys:

User Category 1	User Category 5
User Category 2	User Category 6
User Category 3	User Category 7 - Dead Man Alarm.
User Category 4	User Category 8 - Counter.

- Option to prevent arming if a group timer is not operating.
- User menu options accessible via the alarm group.
- Time Zone.
- Alternate alarm group.

ALARM GROUP NUMBER

Alarm groups are numbered from 1 to 138.

Alarm groups 1-10 are hardcoded into the system. They can be viewed but not changed as they contain master control settings and default settings. *Refer to:* Table 4.

In a new system, alarm groups 11-29 are pre-programmed with some standard settings. These may be amended by you if necessary. *Refer to:* Table 4.

Alarm groups 30-138 are programmable to suit individual system requirements.

ALARM GROUP NAME

The name given to an alarm group should reflect the function of the alarm group.

To program the alarm group name, the word is recorded by using it's reference number.

The name of an alarm group is selected from a list of words already held by *The Challenger*. These words can be from the standard word library - *Refer to:* Table 2 or from a list of words which you have programmed - *Refer to:* Installers Menu Option 10 - Text Words.

AREAS ASSIGNED TO THE ALARM GROUP

An alarm group can only control functions in areas which are assigned to it.

The display will show:

```
Alarm Groups **WARNING**
Alm-Grp:
```

Enter ~ Return to the Installer menu.

or **? Enter** ~ Enter the alarm group number to be programmed and move to the next display.

The display will show the existing name of the alarm group and the word reference number for that name:
eg.

```
Alm Grp Name: 0297, Engineering
Text No:
```

? Enter ~ Enter the reference number for the word which will be used to describe this alarm group. Display the new name.

and/or **Enter** ~ Save the displayed name and move to the next alarm group display.

The display will show the numbers of the areas currently assigned to the alarm group:
eg.

```
1,2,3,5,7,8,9,
Area:
```

? Enter ~ Add/Delete an area.
If the area entered is not recorded it will be added and displayed.
If the area entered is already recorded it will be deleted and removed from the display.

and/or **Enter** ~ Save the displayed areas and go to the next alarm group display.

USER'S ALARM GROUP

YES - If this alarm group is for users.
If set at YES, the alarm group will be displayed in the list of alarm groups when creating a user on User Menu Option 14 - User Codes. *This option is not set for alternate user alarm groups.*

NO - If this alarm group is for a door or RAS

Note: An alarm group is only displayed in User Codes when it has the same or less records than the alarm group assigned to the user creating a code (includes check of alternate alarm group). A user is not permitted to create a code for another user who has higher security clearance.

Note: Programming procedure

The programming is the same for all records up to *User Menu Options*.
The display will show the existing setting:
eg.

```
NO -Can This Grp Be Assigned To Users
*-Change  0 - Skip
```

[*] ~ Change NO to YES or YES to NO. Display the new setting.

and/or [0] ~ Save the displayed setting and move to the *User Menu Option* record.

and/or [Enter] ~ Save the displayed setting and move to the next alarm group display.

ALARM SYSTEM CONTROL

YES - Alarm system control functions are allowed by a user with this alarm group, or at a door or RAS with this alarm group.

NO - No Alarm system control functions are allowed. Access control functions and any user menu options specified are still valid.

Alarm control functions are Arm, Disarm, Reset Alarm etc.

Note: As well as a YES setting for control of all alarm system functions, this record must be set to YES if any of the other alarm system control function restrictions in the alarm group are set to YES.

Example of display:

```
YES - Alarm System Control
*-Change  0 - Skip
```

LIST AREAS

This record controls the way in which areas are presented on an LCD during the Arm/Disarm procedures.

YES - The areas assigned to the user will be displayed (after entering a PIN & Enter) to enable selection from arm/disarm options (Specific areas, all areas etc.). This is useful where a user is capable of controlling a number of areas but usually needs to arm/disarm specific areas only.

NO - The areas assigned to the user will not be displayed. PIN & Enter will immediately Arm/Disarm areas.

Refer to: The User Guide for further information.

```
NO - Prompt With List of Areas
*-Change  0 - Skip
```

KEYBOARD DURESS

Example of display:

NO - Can User Activate Keyboard Duress
*-Change 0 - Skip

YES - The keyboard duress facility allows a code to be entered on a keypad to activate duress.

NO - Duress cannot be activated. A duress code is treated as an invalid code.

Refer to: The User Guide for further information on duress.

RESET SYSTEM ALARMS

NO - Reset System Alarms
*-Change 0 - Skip

System Alarms are conditions such as DGP Tamper, Siren Fail, Low Battery, Report Fail etc.

YES - Reset System Alarms allows a user with this alarm group to reset the latching System Alarms.
This is only valid if "System Alarms Latch" has been set to YES in Option 7 - System Options.

Note: If this record is set at YES, the *Alarm System Control* record must also be set to YES.

DISABLE AUTO-DEISOLATE

NO - Disable Auto-Deisolate
*-Change 0 - Skip

YES - This user is prevented from automatically deisolating inputs in the area he disarms.
Not applicable if "Automatic De-isolate" in Option 7-System Options is set to NO.

Used for cleaners etc.

ARM & RESET ONLY

NO - Restricted to Arm & Reset
*-Change 0 - Skip

YES - The only alarm system control functions allowed are Arm system and Reset Alarm.

NO - Alarm control restrictions are not imposed by this record.

Note: If this record is set at YES, the *Alarm System Control* record must also be set to YES.

DISARM ONLY

NO - Restricted To Disarm Only
*-Change 0 - Skip

YES - The only alarm system control function allowed is Disarm.

NO - Alarm system control restrictions are not imposed by this record.

Note: If this record is set at YES, the *Alarm System Control* record must also be set to YES.

ALARM RESET ONLY

YES - The only alarm system control function allowed is Reset Alarm.

NO - Alarm System control restrictions are not imposed by this record.

Note: If this record is set at YES, the *Alarm System Control* record must also be set to YES.

Example of display:

```
NO - Restricted to Reset Only
*-Change  0 - Skip
```

AUTO ISOLATE UNSEALED INPUTS

Relates to the treatment of unsealed inputs during the arming procedure.

YES - If there are unsealed inputs when the arming procedure is instigated, those inputs will automatically be isolated and the system will be armed without causing an alarm.

NO - It will not be possible to arm the system when there are unsealed inputs (Unless *Forced Arming* - below - set at YES).

```
NO - Auto Isolate Unsealed Inputs
*-Change  0 - Skip
```

FORCED ARMING WHEN UNSEALED INPUTS

Relates to the treatment of unsealed inputs during the arming procedure.

YES - The check for unsealed inputs is ignored and if there are unsealed inputs when the arming procedure is instigated, the system will still arm. (The inputs will remain unsealed and, depending on the input type, may cause an alarm.

NO - It will not be possible to arm the system when there are unsealed inputs (unless *Auto Isolate* - above - set at YES).

```
NO -Forced Arming When Inputs Unsealed
*-Change  0 - Skip
```

PREVENT FORCED DISARMING

This record relates to the treatment of unsealed inputs during the disarming procedure and may be used if there are Access Alarm input types such as Type 1 and Type 11 in the system.

YES - Area/s cannot be disarmed if there are unsealed inputs.

NO - Area/s can be disarmed even if there are unsealed inputs.

```
NO - Prevent Forced Disarming
*-Change  0 - Skip
```

MODEM ACCESS

YES - Modem access with VT100 terminal (or terminal emulation software) is allowed by a user with this alarm group.
RAS 16 must have a suitable Alarm Group assigned to specify functions available (e.g. Alm Grp 2) and be programmed as an LCD Arming Station.
(Doesn't need to be polled)
This option does not apply to Upload/Download S'ware.

```
NO - Can User Access Via Modem
*-Change  0 - Skip
```

USER CATEGORYS 1-8

These records are used to activate user categorys.

The programming for each record is the same however only one user category should be set to YES. If more than one is set to YES, the lowest number is the valid user category.
User Category 7 can be used to report "Dead Man Alarm" if available in the reporting format.
User Category 8 can be used as the special function "User Count For Each Area".

Refer to: Installer menu option 15 - User Category Data for an explanation on the way in which user categorys operate.

YES - The User category functions will be activated when a PIN is entered.

Note: If User Category 1 is set at YES, another YES setting for any user categorys 2-8 becomes invalid.

Example of display:

NO - Link User To Category 1
*-Change 0 - Skip

[*]	~ Change NO to YES or YES to NO. Display the new setting.
and/or [0]	~ Save the displayed setting and move to the *User Menu Option* record.
and/or [Enter]	~ Save the displayed setting and move to the next user category display.

NO - Link User To Category 2
*-Change 0 - Skip

NO - Link User To Category 8 "Counter"
*-Change 0 - Skip

PREVENT ARMING IF CATEGORY NOT TIMING

This record relates to user category functions. (*Refer to:* Installer menu option 15 for full information on user categories).

YES - If an area has been disarmed and there is no user category timer running, it will not be possible for a user category timer to be started. (A user category timer, when expired, will arm an area, so setting this option will prevent an area being armed when it has originally been disarmed by a user without user category functions.)

NO - Normal user category functions apply.

NO -No Arming If User Cat Not Timing
*-Change 0 - Skip

MENU OPTIONS

This record allows you to determine which user functions will be available to users with this alarm group, or , on a RAS with this alarm group.

Each user menu option is displayed and must be set at YES for it to be available to the alarm group.

The user options available for selection are:
(*Refer to:* The User Guide for further information on each option).

1. Panel Status
2. Inputs Unsealed
3. Inputs in Alarm
4. Inputs Isolated
5. History
6. Test Report
7. Service Menu
8. Film Counters
9. Input Text
10. Isolate
11. De-Isolate
12. Test Input
13. Start Auto Access Test
14. Program Users
15. Time & Date
16. Isolate/Deisolate RAS/DGP
17. Enable/Disable Service Tech.
18. Reset Cameras
19. Install Menu
20. Door & Floor Groups
21. Holidays
22. Open Door
23. Unlock, Lock, Disable and Enable
24. Print History

TIME ZONE

This record determines the time zone applicable to this alarm group. Functions restricted/available via this alarm group will be applicable only for the periods allowed by the time zone.

For specific information on the operation of time zones,
Refer to: Installer menu option 13 - Timezones.
Installer menu option 22 - Timezone to follow relays.

ALTERNATE ALARM GROUP

Each alarm group may have an alternate alarm group. These alarm groups are only used when the original alarm group records a timezone with access times which are invalid when a function is attempted. If the timezone of the original alarm group denies access, the alternate is checked.

Note: The alternate alarm group may also be programmed with an alternate alarm group and so on - up to 3 alarm groups (the original plus 2 alternates). If a function is denied by the timezone of one alarm group, the next will be checked, etc.

In this way, opposing functions may be made available at different times, days etc.

Note: **To get into the Menu Options record, you must press 0 from one of the preceding records. If only Enter is used, the menu option record will be bypassed.**

The display will show the existing setting for each option:
eg.

```
YES - 1-Panel Status
*-Change  0 - Skip
```

[*] ~ Change NO to YES or YES to NO and display the new setting.

and/or [0] ~ Save the displayed setting and move to the Time Zone display.

and/or [Enter] ~ Save the displayed setting and move to the next Users Menu option record.

The display will show the current time zone recorded:
eg.

```
Alm-Grp 14 Time Zone 4
Time Zone:
```

[? Enter] ~ Enter and display a new Time zone number.

and/or [Enter] ~ Save the displayed Timezone and move to the next alarm group display.

The display will show the existing alternate alarm group:
eg.

```
Grp 14 Alt-Grp 12, Night Shift
Alm-Grp:
```

[? Enter] ~ Enter and display a new alternate alarm group.

and/or [Enter] ~ Save the displayed alarm group and return to the original program alarm group display to program the next alarm group.

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TIMERS 6

This function is used to record time values applicable to timed system functions.

CAUTION: Timers will time for +/- 1 of the value entered. Avoid using values of 1 second or 1 minute.

If any timer is set to 0, the timer will never time out when activated.

The programming procedure is the same for all programmable times:

The display will show the existing setting:
eg.

```
User Category 1 Set To (Min). 0
Time:
```

? Enter ~ Enter and display a new time value.

and/or **Enter** ~ Save the displayed time and move to the next Timers display.

The programmable times are as follows:

USER CATEGORYS 1 - 8

(One record for each user category)
Records the amount of time (in minutes) applicable to User Categorys 1 to 8 for Timed disarm (if the user category has been programmed for timed disarm), when a code is entered by a user with an alarm group with the user category.
Refer to: Installer menu option 15 - User Category Data
Installer menu option 5 - Alarm Groups

Note:
1. If set at 0 the group will not time out - *Refer to* User Category Data for more information.
2. Use Category 8 time must always be set to 0. Special "Counter" function. *(See "User Categories")*
3. The User Category time will be over-ridden by the Area Disarm Time (if programmed) in Option 2 - Area Database.

Example of display: (one display for each of Groups 1-8)

```
User Category 1 Set To (Min). 0
Time:
```

ACCESS TEST

Records the amount of time (in minutes) that an access test runs.
Refer to: Installer menu option 7 - System Options for the system *Testmode.*

Example of display:

```
Access Test Set To (Min). 15
Time:
```

SECURE TEST

Records the amount of time (in minutes) that a secure test runs.
Refer to: Installer menu option 7 - System Options for the system *Testmode.*

```
Secure Test Set To (Min). 15
Time:
```

WARNING TIME

Records the amount of time which is provided as a warning time before a user category timer expires, or, before the time allocated for a test procedure expires. When a warning time is set, an audible alert is provided for that warning period preceding the expiry.
MUST always be shorter than the shortest User category time.

```
Warning Time Is Set To (Min). 5
Time:
```

TIMERS

DELAYED HOLDUP

Records the amount of time (in seconds) between a delayed type input being activated and the alarm caused by that input being reported to the monitoring company.
This record is ignored when another delayed type input has already been activated.
The input types which use this record are 8, 11, 22, 40.
Refer to: Input Types - Table 1.

Example of display:

Delay Holdup Time Is Set To (Sec). 60
Time:

SUSPICION TIME

Records the amount of time that a camera continues operation after a suspicion type input has been resealed.
The input types which use this record are 7, 40, 47
Refer to: Input Types - Table 1.

Suspicion Time Is Set To (Sec). 15
Time:

SERVICE TIME

Records the time period applicable for enable service.

See User Guide- User Menu Option 17.
Timezone 25 is valid while Service Tech is enabled.

Service Time Is Set To (Min). 30
Time:

LOCAL ALARM REMINDER TIME

Records the amount of time that may elapse between acknowledging a local alarm and a re-alarm occurring, including the audible alert (if the cause of the local alarm is not fixed).
Refer to: User Guide - Local Alarm

Local Alarm Reminder Time (Min). 0
Time:

INDIVIDUAL INPUT TEST

Records the maximum amount of time (in minutes) that a test on an individual input runs.
Refer to: User Guide - Menu option 12 - Test Input

Individual Testmode Time (Min). 5
Time:

DOOR ACCESS

Records the amount of time that door locks (event flags) activate, to allow doors to be opened. This time value is common for all door event flags connected to *The Challenger*.
i.e. Doors 1 to 16.
(Doors connected via Door Controllers are individually programmed)

Door(s) Unlock Time (Sec). 5
Time:

TESTER EVENT TIME

Records the amount of time that a tester event activates during the secure test.
A tester event is one which is programmed to activate a device which will allow testing of other devices. eg. Light to trigger a light detector.
The tester event flag will activate for half the tester event time. The remaining tester event time is a settling time to allow the tested device to reseal.
The tester event flag is Pre-set as Event Flag 16.

Example of display:

Tester Event Flag Time (Sec). 15
Time:

SIREN TIME

Records the amount of time that the internal siren drivers operate. Max 255 minutes.

Example of display:

Siren Time Set To (Min). 8
Time:

MAINS FAIL TIME

Records the amount of time before the mains fail is reported.
Value of 0 = Instant Mains Fail Reporting.

Example of display:

Mains Fail Time Set To (Min). 60
Time:

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SYSTEM OPTIONS 7

This function is used to record options common to the whole system.

Areas Selected to Total Disarm	:	Option to enable total disarming of 24Hr, Access & Local Alarm input types.
Film Low Level	:	Frame count number used to indicate low film.
Film Out Level	:	Frame count number used to indicate no film.
Test Mode	:	Details of operation of access and secure test.
Relay controllers	:	Relay controller settings.
Event Text	:	An event description for the system.
Alarm Prefix	:	Addition digits to a door PIN to allow alarm control.
Time Before LCD Text Rotation	:	Option to allow the period before LCD Text begins to rotate, to be altered.
LCD Text Rotation Speed	:	Option to allow the rotation speed of LCD text to be altered.
Tamper Alarm Reporting	:	Option to allow tamper alarm reporting.
Automatic De-Isolate	:	Option to automatically de-isolate inputs.
Input Display Sequence	:	Parameters for displaying input names/numbers on the LCD.
Name File	:	Ability to record a user name against a PIN.
Tamper I/Ps Set Siren & Strobe	:	Panel & DGP Tamper inputs activate Siren & Strobe.
Latching System Alarms	:	Option to make System Alarms latching.
Siren Testing	:	Option for 3 second siren testing.
Disable camera reset	:	Option to disable "0 Enter" for resetting cameras after an alarm.
Disable Auto Insert Categories	:	Option to disable the ability to treat areas as vaults.
Disable LEDs that don't report	:	Option to disable LEDs for areas not reported on.
Disable Code from Displaying	:	Option to disable PIN code from being displayed when programming Users.
Disable Flashing Area LEDs	:	Option to disable Area LEDs from flashing when an alarm occurs.
Dual Custody Programming	:	Option for use of two valid codes to access "Program Users".
Display Alarm Instant	:	Option for Alarm details to be displayed instantly on LCD.
Sirens only after Report Fail	:	Alarms will only activate Sirens if Challenger fails to report to Monitoring Company.
Financial Institution Options	:	Enables three system options generally applicable to financial institutions.
Display User Flags	:	Enables the special User Flags to be displayed when programming Users.
Delay Holdup Lockup	:	
User Offset	:	

AREA/S SELECTED TO TOTALLY DISARM INPUTS

This option allows for input types such as 24Hr, Access Alarm or Access Local/Secure Alarm types to be totally disarmed by assigning an extra area to the input which is selected in this option as an Area to totally Disarm.

e.g.
Input is programmed as Type 21-Access Loc Code/Secure Alm
Input has Areas 1 and 16 assigned.
Area 16 is "Area Selected to Total Disarm".

Area 1 & 16 both Secure - I/P is Secure Alarm.
Area 1 in Access /16 in Secure - I/P is Local Alarm.
Area 1 & 16 both in Access - **I/P is Disarmed completely** (Except for tamper monitoring - if enabled)

The display will show the existing area numbers recorded:
eg.

```
16
Disarm Areas:
```

? Enter ~ Add/Delete an area.
If the area entered is not recorded it will be added and displayed.
If the area entered is already recorded it will be deleted and removed from the display.

and/or **Enter** ~ Save the displayed areas and go to the next system options display.

FILM LOW LEVEL

The film level number recorded is the film frame count. When this frame count is reached, a report of *film low* is sent to the remote monitoring company.

Relates to Camera count input types 23-26 and 36-39.

The display will show the existing frame count recorded for the film low or film out level:
eg.

```
Film Low Is Set To 0800
Film Level:
```

? Enter ~ Enter and display a new film low or film out level.

and/or **Enter** ~ Save the displayed value and move to the next system options display.

FILM OUT LEVEL

The film level number recorded is the film frame count. When this frame count is reached, a report of *film out* is sent to the remote monitoring company.

Relates to Camera count input types 23-26 and 36-39.

SYSTEM TEST MODE OPTION

The test mode determines if/when the access or secure tests will operate automatically.
There are 4 options available, and an option is programmed using the reference number.

0 - No Auto Test : No tests will operate automatically. An access test can only be done via User menu option 13 - Start Auto Access test.

1 - Enable Auto Test: The access test commences automatically when the system is disarmed / The secure test commences automatically when the system is armed.

2 - Manual Access Test/Auto Secure Test: The secure test will commence automatically when the system is armed / The access test can only be done via User menu option 13 - Start Auto Access Test.

3. - Auto Access Test Only : The access test will commence automatically when the system is disarmed / The secure test does not operate.

Notes: 1. For "Auto Access Test" to operate, the area/s which contain the inputs to be tested must be assigned as Vaults in Installer Menu Option 18: - Areas Assign To Vaults.

2. This record does not affect manual testing of an individual input. (User Menu Option 12)

The display will show the existing test option:
eg.

```
1, Enable Auto Test
Option:
```

? Enter ~ Enter and display a new test option.

and/or **Enter** ~ Save the displayed test option and move to the next system options display.

RELAY CONTROLLERS

This record sets the number of relay controllers which are fitted to the main control panel.

- This value is set at 0 (zero) when a 4 Way Relay Card is connected to the main panel.
- A value of 1 Relay Controller is entered for every 8 Relays.
  i.e. -A value of 2 must be entered if one 16 Way Open Collector Card is fitted to the main control panel.
  -A value of 1 must be entered for one 8 way Relay Card.
- No value is entered here for Relay Controllers fitted to DGPs.

The display will show the existing number of relay controllers recorded:
eg.

```
Number Of Relay Controllers: 2
How Many:
```

? Enter ~ Enter and display a new number of controllers.

and/or **Enter** ~ Save the displayed record and move to the next system options display.

EVENT TEXT

Records the text word number and text word which is shown as *event text*. Event text is shown when event text input types are activated. (Input types 57 & 58)
Event text will appear on the LCD in the usual display, next to -- No Inputs In Alarm --.

eg. Sirens Isolated.

The display will show the existing event test:
eg.

```
Text No: 0920, Sirens Isolated
Text No:
```

? Enter ~ Enter and display a text word number for a new event text.

and/or **Enter** ~ Save the displayed text and move to the next system options display.

ALARM/DOOR CODE PREFIX LENGTH

The alarm prefix is the number of digits to be dropped from the front of your full alarm control PIN code for door access only.

(Or the number of digits that are required to be added to the front of your door access PIN for alarm control, depending on your point of view)

ie. If the Alarm Prefix is 3 and your full PIN code is 1324658 then you would enter 1324658 for alarm control and 4658 for door access only.

A value of 1 to 4 may be entered.

The display will show the existing alarm prefix:
eg.

```
No Alarm Prefix
Prefix Len:
```

? Enter ~ Enter and display the prefix length for a new length.

and/or **Enter** ~ Save the displayed length and move to the next system options display.

TIME BEFORE LCD TEXT ROTATION

This record is relevant to the LCD display text on Version 8, 16 Character LCD Arming Stations.

A value between 1 and 15 can be programmed to specify the period before the LCD text on 16 character LCD Arming Stations begins to rotate.

If left at the default setting of 0, the arming stations will assume a value of 8. If you wish to alter the period from default enter a value higher than 8 for a longer period or a value lower than 8 for a shorter period.

NOTE: This option can only be programmed if ALL LCD Arming Stations in the system are Version 8 types.
e.g TS0801, TS0804 etc.

The display will show the existing value:
eg.

```
Time Before Rotate Is 0
Time:
```

? Enter ~ Enter and display the value for a new period.

and/or **Enter** ~ Save the displayed value and move to the next system options display.

LCD TEXT ROTATION SPEED

This record is relevant to the LCD display text on Version 8, 16 Character LCD Arming Stations.

A value between 1 and 15 can be programmed to specify the speed at which the LCD text on 16 character LCD Arming Stations rotates.

If left at the default setting of 0, the arming stations will assume a value of 8. If you wish to alter the speed from default enter a value higher than 8 for a slower speed or a value lower than 8 for a faster speed.

NOTE: This option can only be programmed if ALL LCD Arming Stations in the system are Version 8 types.
e.g TS0801, TS0804 etc.

The display will show the existing value:
eg.

```
Rotate Speed Is 0
Time:
```

? Enter ~ Enter and display the value for a new rotate speed.

and/or **Enter** ~ Save the displayed value and move to the next system options display.

Note: Programming for the remaining System Parameter records is the same on each display.

The display will show the existing setting:
e.g.

```
NO - Siren Testing
*-Change  0 - Skip
```

***** ~ Change NO to YES or YES to NO. Display the new setting.

and/or **0** ~ Return to the Installer Menu.

and/or **Enter** ~ Save the displayed setting and move to the next System Options display.

TAMPER ALARM REPORTING

This record determines whether an alarm report to a remote monitoring company will indicate if the alarm is a tamper alarm. The following wiring parameters for end of line monitoring apply:

NO - Tamper not indicated
Seal = 10k
Alarm = Open or Short or 5k or 20k

YES - Tamper indicated
Seal = 10k
Alarm = 5k or 20k
Fault = Open or Short

Note: End of line monitoring resistors must be mounted in the input device.

Example of display:

```
NO - Input Tamper Monitoring
*-Change  0 - Skip
```

AUTOMATIC DE-ISOLATE

YES - Any sealed, isolated inputs are de-isolated when any of the areas assigned to the input are disarmed.

This is done to ensure that isolated inputs are not ignored/ overlooked.

See also: Option 5: Alarm Groups - Disable Auto De-isolate.

```
NO-Auto Deisolate When Area Accessed
 *-Change  0 - Skip
```

INPUT DISPLAY

This record controls the way input names and numbers are displayed on the LCD during user functions.

YES - One input at a time is displayed even though there may be more than one in the list of inputs to be displayed. The user must scroll through the inputs.
eg. Unsealed 2. Building 1 Workshop PIR

NO - Inputs are displayed as a list of numbers and it is necessary to select the input number to display the individual input name.
eg. Unsealed 1, 2, 3.

Example of display:

```
NO - Display One Input at a Time
*-Change  0 - Skip
```

NAME FILE

This record determines whether a user's name is to be programmed with their PIN code.

YES - The appropriate prompts etc. for programming a user name, will be displayed when programming user codes.

Refer to: User Guide - Menu option 14 - Program Users

```
NO - Name File
*-Change   0 - Skip
```

SYSTEM "TAMPER" ALARMS ACTIVATE SIREN & STROBE

YES - The dedicated "Tamper" inputs on the main panel and the DGPs will activate Siren & Strobe when in alarm.

NO - The system alarms report and activate event flags (if programmed) only.

```
NO - System Alarms Set Siren & Strobe
*-Change  0 - Skip
```

LATCHING SYSTEM ALARMS

System Alarms are RAS/DGP Offline, Cabinet tamper, Siren tamper, Mains fail, Fuse fail, Low Battery, etc.

YES - System Alarms latch and require code to reset.
If set to YES, ensure that users who have the appropriate authority are assigned an Alarm Group which has "Reset System Alarms" set to YES.

NO - System Alarms automatically reset and report restoral when condition is no longer present.

```
NO - System Alarms Latch
*-Change  0 - Skip
```

SIREN TESTING

YES - The sirens will operate for 3 seconds when the secure test is started.

See also: System Options - Test Mode.
V8 Challenger User Guide - Secure Test

```
NO - Siren Testing
*-Change  0 - 'Skip
```

DISABLE 0 ENTER - CAMERA RESET

This record controls the ability to stop cameras operating (by using "0 Enter") after an alarm has occurred.
Refer to: User Guide - Alarm

YES - "0 Enter" is disabled and cannot be used to stop cameras operating. The cameras will continue to operate until someone who is authorized to control cameras, resets them.

NO - "0 ENTER" will stop cameras operating. (After ENTER, ENTER, entered for "Quick Alarm History")

Example of display:

NO-Disable 0 ENTER For Camera Reset
*-Change 0 - Skip

DISABLE AUTO INSERT OF USER CATEGORYS

YES - The special procedure for automatically timing on non vault areas when arming vaults, is disabled.

NO - The special procedure for automatically timing on non vault areas when arming vaults will be enabled, provided all the applicable values are programmed.

Refer to: Installer menu option 18 - Areas Assign to Vaults for complete information.

NO - Disable Insert of User Category
*-Change 0 - Skip

DISABLE AREA LEDS THAT DON'T REPORT

YES - Disables all LEDs for areas which are not recorded as *Areas To Report Open/Close* (As detailed in Installer Menu Option 9 - Comms Options)

NO-Disable Area LEDs That Don't Report
*-Change 0 - Skip

DISABLE CODE FROM DISPLAYING

This record disables the PIN code from being displayed when programming users.
Does not apply to Master Installer Code - User 50.

NO - Disable Code From Displaying
*-Change 0 - Skip

DISABLE FLASHING AREA LEDS

This record disables the area LEDs from flashing when there is an alarm and/or tamper in the area.

NO - Disable Flashing Area LEDs
*-Change 0 - Skip

DUAL CUSTODY CODE PROGRAMMING

This record forces the menu option, 14-Program Users to request a second user code to be entered before access to this option is granted.

User 50 (Master Code) is not required to have a second code to authorise the option.

NO - Dual Custody Code Programing
*-Change 0 - Skip

DISPLAY ALARMS INSTANTLY ON LCD

This record determines whether alarms will be displayed instantly on the LCD.

YES - Details of first alarm is displayed instantly on the LCD Arming Station. Details of other alarms can be viewed on the LCD Arming Station by pressing the ENTER key twice.

NO - Details of all alarms can be viewed on the LCD Arming Station by pressing the ENTER key twice.

Example of display:

```
NO - Display Alarm Instant on LCD
*-Change  0 - Skip
```

SIRENS ONLY AFTER REPORT FAIL

If this record is set to YES, Siren Event Flags will only be activated on alarms if the Challenger Panel has failed to report to the Monitoring Station in any communication format.

Report Fail is registered at the end of the fourth failed dial attempt. The full siren time will run after report fail is registered.
Dial attempt sequence is as follows:

1st Attempt (30 sec) 2nd Attempt (60 sec) 3rd Attempt (5 mins) 4th Attempt REPORT FAIL

Fifth and sixth dial attempts are also made, each after a 5 minute delay. The delay time between attempts is from the end of the previous attempt to the start of the next attempt.

```
NO - Sirens Only After Report Fail
*-Change  0 - Skip
```

FINANCIAL INSTITUTION OPTIONS

If this record is set to YES, three special options, generally applicable to financial institution installations are enabled.

1. Film Counters are enabled during Access test mode.
2. User Category 2 or User category 6 disables Delayed Holdup inputs.
3. Minimum PIN code length is set to 5 digits.

```
NO - Financial Options
*-Change  0 - Skip
```

DISPLAY USER FLAGS

Enables the special User Flags to be displayed when programming Users. (User Menu Opt. 14)

YES - The special User Flags will be displayed in sequence after the "Floor Group" display when programming Users.

NO - The special User Flags are not displayed.

```
NO - Display User Flags
*-Change  0 - Skip
```

DELAY HOLDUP LOCKOUT

```
NO - Delay Holdup Lockout
*-Change  0 - Skip
```

USER OFFSET

```
User Offset Set To 0
Enter Offset: _
```

See also: V8 Challenger User Guide - Program Users.

AUTO RESET 8

This function is used to program *The Challenger* to automatically reset alarms.

The alarms are for selected areas (determined by an alarm group) and are reset after a pre-determined time programmed by you.

Use this function in instances where it may not always be possible to reset an alarm manually.

Note: It may be necessary to program a special alarm group for this function.
Refer to: Installer menu option 5 - Alarm Groups.

Auto Reset can be programmed to only occur during certain period/s by assigning a Timezone in the Alarm Group.

The display will show the existing reset time. This is the amount of time that elapses between the alarm occurring and the reset.
eg.

```
Auto Reset Time (Mins):15
Time (Mins):
```

? Enter ~ Enter and display a new auto reset time.

and/or **Enter** ~ Save the displayed time and move to the next auto reset display:

The display will show the existing alarm group which records the areas to reset. (You will need to determine the areas by checking the alarm group).
eg.

```
Reset Alm-Grp: 20,Low Priority Areas
Alm-Grp:
```

? Enter ~ Enter and display a new alarm group.

and/or **Enter** ~ Save the displayed alarm group and return to the Installer menu.

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COMMUNICATION OPTIONS 9

This function is used to record details of the communications link between *The Challenger* and the remote monitoring company.

TELEPHONE NUMBERS

These are the telephone numbers which the system will use to communicate. Up to 10 digits can be entered for each record. The area code may be included in the telephone number entry if the total length is still 10 digits or less.

PABX Access Code or Telephone No Area Code:

The first display allows you to enter a PABX Access code. This is the number used by the company where the installation is located, to obtain an outside line via their switchboard. This field is optional and may be omitted if the system is not connected via the switchboard.
In the case of STD Telephone Numbers, the Area Code may be entered in this option, or in some remote areas, the Satellite Access Code etc.
It is recommended to include one or two pauses after the PABX Access Code.

Dial Sequence:

It is possible to record 2 telephone numbers. If the initial dial attempt fails, the system will dial the first number again twice and if connection is not made on either occasion, the second number will be dialled 3 times. If connection is still not made, the attempt ceases.

Time between dial attempts: 30 seconds, 60 seconds, 5 minutes, 5 minutes, 5 minutes.

Pause:

A pause in the dialling sequence is indicated by P and can be inserted anywhere. *eg.* after the PABX access code.

The display will show the existing telephone numbers:
eg.

```
*-Pause, Ph No: 0P
PABX:
```

? Enter ~ Enter and display a new PABX access code.

and/or **Enter** ~ Save the displayed PABX access code and move to the next display.

The next 2 displays will allow you to enter new telephone numbers:
eg.

```
*-Pause, Ph No: 8706209
Ph1 No:
```

? Enter ~ Enter and display a new telephone number 1.

and/or **Enter** ~ Save the displayed telephone number 1 and move to the display to enter a second telephone number.

Note: The display for the second telephone number is the same as above.

SERVICE NUMBER

This is the telephone number that will be dialled by the system if the Dial For Service option is selected.

Used to connect to a remote PC for programming.

Used in conjunction with User Menu Option 7 - Service Menu.

Note: If the Challenger Panel is reporting in a Direct Line format, the reporting format must be disabled and the line lead temporarily connected to a dialler line for the service connection to be made.

The display will show the existing service telephone number:
eg.

```
*-Pause, Phone No:
Ser No:
```

? Enter ~ Enter and display a new service telephone number.

and/or **Enter** ~ Save the displayed telephone number and move to the next option.

CALL BACK NUMBER

This is the telephone number that will be dialled by the system when it detects a call-back trigger.

Used to connect to a remote PC for programming.
If a Callback Number is programmed "No of Calls" & "No of Rings must also be set.

A Callback number MUST NOT be programmed if you wish to Dial in to the panel for Direct connection.

COMPUTER PHONE NUMBER

This is the telephone number that will be dialled by the modem connected to the Challenger Panel Computer Interface (TS0091, Port A) if the Option "Computer is Via Dialler" is set to YES.

Used to connect to a remote PC with System Management Software installed.

See also: Computer is via Dialler & Computer Address.

ACCOUNT NUMBER/S

This is a unique number which identifies your system to the monitoring company when reporting in DIALLER formats and will be provided by that monitoring company.

These Account numbers are only valid for Dialler formats.
The Securitel Hard ID IS NOT programmed here.

The number of digits required for the account number will vary depending on the communication format selected.

- **Tecom Dialler formats** only require the **"Area 1"** Account No. to be programmed with a **6 digit number.**
- **DTMF Dialler Formats** require a **4 digit number** for the System Account No. (optional) and the 16 Area Account numbers. *
- Program 9999 in "System Account" if System reports are not to be sent, and in any of the areas that you do not wish reporting of alarms to occur on, except for Area 1.
- A number must be entered for every area that you wish to report on. (For alarms and any areas specified in "Areas to Report Open/Close")
  For Systems with a single account number, the same number is entered for all the areas that you want to report on.
- If 0000 is entered as the Account number, alarms in that area will be reported on the Area 1 Account number.

*** - Area 1 Account Number MUST be programmed.**

See Communication Formats.

FORMAT SELECTION

The display will show the existing call back telephone number:
eg.

```
"*"-Pause, Ph No:
CBack:
```

? Enter ~ Enter and display a new call back telephone number.

and/or **Enter** ~ Save the displayed telephone number and move to the next option.

Example of display:

```
"*"-Pause, Ph No:
Comp:
```

The display will show the existing system account number :
eg.

```
System Account - 0000
Account:
```

? Enter ~ Enter and display a new account number.

or **Enter** ~ Save the displayed account number and move to the display for the area account numbers.

The display will show the existing system account number for area 1:
eg.

```
"*"-Next, Area 1 Account - 1234
Account:
```

***** ~ Scroll through the areas 1-16.

or **? Enter** ~ Enter and display a new circuit number.

or **Enter** ~ Save the displayed circuit number and move to the display for the next area.

Note: The programming for each area is the same.

COMMUNICATION OPTIONS

There are 11 reporting format options:

0 - Reporting Disabled
1 - High Speed Extended Dual Round
2 - High Speed Extended Checksummed
3 - Contact ID - Small
4 - Contact ID - Large
5 - Securitel Serial Data
6 - Securitel Pin
7 - Tecom Dialler V1
8 - Tecom Dialler V3 (NOT Currently Supported)
9 - Tecom Direct Line - Small
10 - Tecom Direct Line - Large
11 - EDL Direct Line (Only available in Special Version)

For Radio Communication Format see *Installer Menu Option 36.*

The display will show the existing reporting format:
eg.

```
ADEMCO Contact ID - Large
Format No:
```

? Enter ~ Enter and display a new reporting format option.

and/or **Enter** ~ Save the displayed format type and move to the display for test calls.

NETWORK ADDRESS (DIRECT LINE)

A Network Address is the *Challenger* panel identification number and identifies the client to the remote monitoring company.

You must record a network address if the system is communicating to the monitoring station via a direct line.

The Network address is the last digit or last 2 digits of the client number supplied by the remote monitoring company.
Format 9-Tecom Direct Line requires only the last digit.

Note: Set the Network address to zero if a direct line is not being used.

Refer to: Format Selection

The display will show the existing direct line address:
eg.

```
Network Address: 2
Address:
```

Enter ~ Save the displayed Direct Line Address and move to the next comms options display.

or **? Enter** ~ Enter a new Direct Line Address and move the next comms options display.

COMPUTER ADDRESS

A computer address is the *Challenger* panel identification number and identifies the client to the access control/monitoring computer.

You must record a computer address between 1 and 1024 if the system is communicating to the access control/monitoring computer via the Computer & Printer Interface fitted to the Challenger Panel.

Note: Set the computer address to zero if a computer is not being used.

See also: Computer is via Dialler & Computer Phone Number.

The display will show the existing computer address:
eg.

```
Computer Address: 0
Address:
```

Enter ~ Save the displayed Computer Address and move to the next comms options display.

or **? Enter** ~ Enter a new Computer Address and move the next comms options display.

AREAS TO REPORT OPEN/CLOSE

The function of this record will vary (as detailed below) depending on the Communication option setting - Common Open/Close.

1. A report will be sent to the remote monitoring company whenever an area which is recorded here is armed or disarmed (provided 2 below is not functional).

2. If Common Open/Close is set to YES, then:
   - disarm report will be sent when the first disarm area occurs for any one of the areas recorded. No report will be sent when the remaining areas are disarmed.
   - arm report will be sent when all the areas recorded have been armed.

See also: Option 7: System Options - Disable Area LEDs that don't report

The display will show the existing area numbers recorded:
eg.

```
1,2,3,6,7,8,
O/C Areas:
```

? Enter ~ Add/Delete an area.
If the area entered is not recorded it will be added and displayed.
If the area entered is already recorded it will be deleted and removed from the display.

and/or **Enter** ~ Save the displayed areas and go to the next comms options display.

SECURITEL HARD-ID

Records a number between 0001 and 9999 which identifies the Securitel Interface Units.

Note:
If your system reports to the remote monitoring company via a Securitel Interface unit, a flashing COMMS light on *The Challenger* Arming Station indicates that *The Challenger* cannot communicate with the monitoring company.
The cause may be:
- A Securitel address has not been programmed.
- There is a hardware fault with the Securitel Interface Unit connected to *The Challenger*.
- The communications line between the Securitel Interface board and the scanner is faulty.

The display will show the existing setting:
eg.

```
SECURITEL ID Set To : 0010
STU ID:
```

***** ~ Delete the displayed hard id and display No STU hard id for systems not using Securitel.

or **? Enter** ~ Enter and display a new STU hard id.

and/or **Enter** ~ Save the displayed hard id and move to the next comms options display.

ENCRYTION KEY

Records a number between 0 and 255 which is used to encode data being sent to the remote monitoring company in the Direct Line format. (Format 9, 10 or 11)
The encryption key number will be provided by the monitoring company. (The same number must be entered for this unit at the monitoring station Direct Line receiver)

Unless otherwise instructed by the monitoring company it is recommended to leave the encrytion key at 0 until communication has been established.

The display will show the existing setting:
eg.

```
Encryption Key Is : 0
Enter Key:
```

or **? Enter** ~ Enter and display a new Encryption Key.

and/or **Enter** ~ Save the displayed key and move to the next comms options display.

NUMBER OF RINGS

This record holds the number of rings that are required before a call is detected.

The normal telephone "Ring Tone" which consists of a double tone (brrr-brrr) is counted as 2 rings.

Used when accessing the Challenger Panel via dial-up modem for "Callback" or Auto Answer.

The display will show the existing rings:
eg.

```
Number Of Rings: 0
Rings:
```

? Enter ~ Enter and display the number of rings.

and/or **Enter** ~ Save the displayed count and move to the next comms options display.

NUMBER OF CALLS BEFORE ANSWER

This record holds the number of calls that are required before the system answers or initiates a call back.

If "Callback" is NOT being used, and "Answering Machine Defeat" is set to NO, the Challenger Panel will answer as soon as the specified number of Calls/Rings has been met. e.g. If set for 3 Calls and 4 Rings, the Panel will answer after the fourth Ring on the third Call. (As long as the first two Calls exceeded four rings)

Used when accessing the Challenger Panel via dial-up modem for "Callback" or Direct connection.

The display will show the existing calls:
eg.

```
Number Of Calls Before Answer: 0
Calls:
```

? Enter ~ Enter and display the number of calls.

and/or **Enter** ~ Save the displayed count and move to the next comms options display.

Note: Downloading Via Line.

- In all formats, reporting is suspended while panel is being accessed via modem.
- When the panel is accessed via modem on Securitel formats the Securitel Interface sends PIN 15, then stops communicating panel messages until the modem disconnects. Any events that occur while modem was connected are then reported.
- On Direct Line Formats, set the communication format to 0 - Reporting Disabled.
  Disconnect the line from the Direct Line socket and connect to a telephone socket.
  When complete, the Direct Line connection must be restored and the Direct Line communication format selected.
  Any events that occur while modem was connected are reported when Direct Line connection is re-established.

TEST CALL OPTION

This record determines whether *The Challenger* activates test calls to the monitoring company and if so, how often.

The test call ensures that communications are operating correctly and can be programmed to only be made if there have been no events to initiate a call since the last test call.

There are 5 test call options:

0 - No test calls
1 - Test call once a day
2 - Test call once a week
3 - Test call once a day if no events
4 - Test call once a week if no events
5 - Test every 4 hours
6 - Test hourly on backup only*
7 - Test every 4 hours on backup only*
8 - Test once a day on backup only*
9 - Test once a week on backup only*

* Only for use with Mobile Data Radio.

For "once a week" options, the test call will go through on the same day as the day on which the option was selected.
To specify a particular day for the "once a week" options, set the system clock to the day of the week on which you want the test call to occur, before selecting the option required. (2 or 4). The system clock must then be reset to the correct time and date.

The display will show the existing test call setting: *eg.*

```
Test Call Once A Day
Option:
```

? Enter ~ Enter and display a new test call option.

or **Enter** ~ Save the displayed option and move to the next display.

TEST CALL TIME

This record specifies the time of day in hours & minutes that the test call will be made.

The display will show the existing test call time: *eg.*

```
Send a Test Call At  23:55
Hours:
```

? Enter ~ Enter and display the hours for test call time and move on to the minutes display.

or **Enter** ~ Save the displayed option and move to the minutes display.

The programming sequence for hours and minutes is the same

MAXIMUM EVENTS IN COMMS BUFFER

This record holds the number of events (0-255) that the Challenger Panel will hold in it's communications buffer.

This is to limit the number of events that would be reported in the event of a system detecting a high level of alarm activity in a short period of time.

If the buffer overflows the excess messages will be lost.

The display will show the existing events: *eg.*

```
Max Events in Comms Buffer: 255
Events:
```

? Enter ~ Enter and display the number of events.

and/or **Enter** ~ Save the displayed number and move to the next comms options display.

COMMUNICATION OPTIONS

ALARM REPORTING

This record controls the way in which multiple alarms from one input are reported to the remote monitoring company.

YES - When an individual input alarms more than once before being reset by a user, each alarm is reported to the remote monitoring company.

NO - When an individual input alarms more than once before being reset by a user, only the first alarm is reported to the remote monitoring company.

Note: This record is not applicable if the reporting is High Speed Extended or High Speed Extended Checksumed *Refer to:* Installer menu option 9 - Communication Options.

ALARM RESTORAL

YES - When *Alarm Reporting* (see previous record) is set to YES and multiple alarms are reported to the monitoring station, this record, if set at YES, causes a restoral message to be sent to the monitoring company each time the input is re-sealed.

DIRECT LINE TERMINATION

If the Challenger Panel is reporting to the monitoring station in Direct Line format, and is the only device on the end of the Direct Line connection from the monitoring station this option is set to YES.

YES - Ensures that Direct Line connection is always terminated.

NO - The Direct Line is shared with other Challenger Panels and termination is switched automatically.

REMOTE SYSTEM CONTROL

YES - If the system communicates to the remote monitoring company via a direct line, setting this record at YES will allow that company to control certain functions in the system. eg. Arm/disarm the system, reset alarms, isolate inputs etc.

NO - Only monitoring is available on the direct line format.

Note: Programming for the remaining Communications Options records is the same on each display.

The display will show the existing setting:
e.g.

```
NO - Multi Break Alarms
*-Change  0 - Skip
```

[*] ~ Change NO to YES or YES to NO. Display the new setting.

and/or [0] ~ Return to the Installer Menu.

and/or [Enter] ~ Save the displayed setting and move to the next Comms Options display.

Example of display:

```
NO - Multi Break Restorals
*-Change  0 - Skip
```

```
NO - Always Terminate Direct Line
*-Change  0 - Skip
```

```
NO - Network Commands
*-Change  0 - Skip
```

OPEN/CLOSE REPORTING

Example of display:

NO - Common Open/Close
*-Change 0 - Skip

This record defines the condition required to report armed/disarmed.
There are 2 options:

Open Follows Each Area:
Reports open/close (disarmed/armed) on each circuit number but only on *Areas to Report Open/Close* as programmed earlier in this option.

Common Open Close:
Reports open (disarmed) on the area circuit number of the first area disarmed from the *Areas To Report Open/Close* programmed earlier in this option. Reports closed (armed) on the area circuit number which is armed last (all others armed) from *Areas to Report Open/Close*.

Note: If you do not want to report open/close, no areas should be programmed in *Areas To Report Open/Close*.

TONE OR DECADIC DIALLING

YES - Tone Dialling
*-Change 0 - Skip

YES - DTMF Tone dialling is enabled in all dialler formats.

NO - Decadic dialling is enabled in all dialler formats.

DISABLE INPUT ISOLATES FROM TRIGGERING DIALLER

NO - Disable Isolates Triggering Dialler
*-Change 0 - Skip

YES - Isolating inputs will not trigger the dialler to report.
Isolates will be reported when the next Alarm function triggers the dialler.

NO - Isolating inputs will trigger the dialler to report.

ANSWERING MACHINE DEFEAT

NO - Answering Machine Defeat
*-Change 0 - Skip

This option is used when dialling in to a Challenger Panel that shares a line with an answering machine.

YES - After the required "Number of Calls" & "Number of Rings" has been met, the Challenger Panel will answer instantly on the next call.

See also "Number of Calls"

ENABLE PSTN LINE FAULT MONITOR

Example of display:

NO - Enable PSTN Line Fault Monitor
*-Change 0 - Skip

YES - The Challenger Panel will monitor the integrity of the dialler telephone line.
If the line is cut it will be indicated immediately on the LCD Arming Station, and the Report Fail Event Flag will be activated to provide local indication and/or to enable a backup cellular phone interface.
A Line fail report will be generated for use with a backup cellular phone interface if used.

NO - Report Fail will only be generated after 4 failed dial attempts and no line fail message is generated for the backup cellular dialler.

NOTE: Must always be set to NO in Version 7 Panels.

See also: Installer Menu Option 34: - Program Summary Event Flags, "Report Fail Event Flag"

COMPUTER PORT CONNECTED VIA MODEM

NO - Computer Port Connected Via Modem
*-Change 0 - Skip

YES - The Challenger Computer interface is connected to the system management computer via modem.

DIAL ALARM EVENTS TO COMPUTER INSTANTLY *

NO - Dial Alarm Events to Comp Instant
*-Change 0 - Skip

This option is relevant to a system reporting events to a management computer via dialler.

YES - The system will dial an alarm event to the computer instantly when the alarm occurs.

NO - The system will wait until the communications buffer is full before dialling through the events to the computer.

DIAL ACCESS EVENTS TO COMPUTER INSTANTLY *

NO - Dial Access Events to Comp Instant
*-Change 0 - Skip

This option is relevant to a system reporting events to a management computer via dialler.

YES - The system will dial an access event to the computer instantly when the event occurs.

NO - The system will wait until the communications buffer is full before dialling through the events to the computer.

* See also: "Computer Address", "Computer Phone No", "Dial Events Via Computer Port" & "Dial Events Via On Board Modem".

DIAL EVENTS VIA COMPUTER PORT

YES - The system will communicate to an access control/ monitoring computer via a dial-up modem connected to the Computer Interface module fitted to the Challenger Panel.

The computer must have special Challenger management system software installed.

The modem must have the following features and be capable of performing the AT commands listed:

- full duplex operation
- V.32
- 4800 Baud

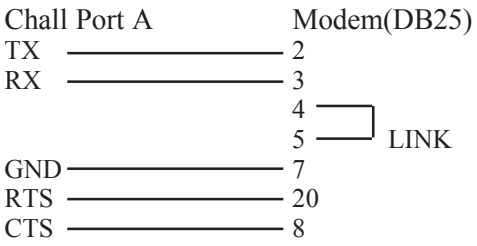
ATF6	4800 BPS QAM V.32.
SO=3	Set answer to 3 rings.
AT&A0	Disables Auto rate detect.
AT&D2	Modem goes on-hook and returns to command state when DTR drops.

See also: "Computer Address", "Computer Phone No", "Dial Alarm Events Via Comp Instant" & "Dial Access Events Via Comp Instant".

Example of display:

```
NO - Dial Events Via Computer Port
*-Change  0 - Skip
```

Challenger to Modem Wiring.



DIAL EVENTS VIA ON BOARD MODEM

YES - The system will communicate to an access control/ monitoring computer via the Challenger Panels On-board modem.
i.e. The Panel's normal dialler line connection.

The Line lead supplied with the panel is connected to a telephone socket as it would for a normal dialler reporting format.

The computer must have special Challenger management system software installed.

```
NO - Dial Events Via On Board Modem
*-Change  0 - Skip
```

TEXT WORDS

10

This function is used to add words to *The Challenger* word library. (Refer Table 2 for explanation).

All words in the library are identified by a reference number. The existing word library (Table 2) uses reference numbers 001 to 899. You can program up to 100 additional words numbered from 900 to 999.

Words are considered any configuration of 16 characters. They can include numbers, spaces (making 2 words for one reference number) or punctuation.

Figure 1 : **Keypad Layout for entering text**

Key	1st	2nd	3rd	4th	5th	6th	7th
1	A	B	C	1	a	b	c
2	D	E	F	2	d	e	f
3	G	H	I	3	g	h	i
4	J	K	L	4	j	k	l
5	M	N	O	5	m	n	o
6	P	Q	R	6	p	q	r
7	S	T	U	7	s	t	u
8	V	W	X	8	v	w	x
9	Y	Z	sp	9	y	z	sp
0	.	-	&	0	.	-	&

(sp=space)

The display will show reference number 900 and the word programmed to it (if any):
eg.

```
0900 : Snack Bar, ( * ) - End
Word No.:
```

***** ~ Scroll through the programmable words 900 to 999.

or **Enter** ~ Return to the Installer menu.

or **? Enter** ~ Enter the reference number of the word you wish to change/add.

If you entered the reference number for a word, the display will show the existing word (if any) for the reference number:
eg.

```
"ENTER"-Next Letter, "*"-End
Shop_
```

Use the text option on the keypad to enter a word or words up to 16 characters. Keys 1 to 9 have alphabetical characters printed above them. To enter a letter, press the key the number of times relative to the position of the letter. Both upper and lower case letters are available as well as numerical values and spaces. Refer to Figure 2.

? Enter ~ Enter each letter (ENTER moves the cursor to the next position - ensure that it is pressed after entering the last character so that the cursor does not remain on a letter).

then ***** ~ Save & display the text word.

and/or ***** ~ Exit the display and return to the first word in the programmable list.

Note: When this key is used, only letters preceding the cursor will be saved. If you wish to save an existing word, you must key it again or, using Enter, move the cursor to the end of the word.

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VERSION NUMBER 11

This function is used to display which version of *The Challenger* software and which database revision are being used in the system.

Note: If updating to a later software version, the database revision of the new version must be the same as the database revision currently installed. If it is not, the panel will require a total re-programming after the new version is installed.

The display shows the software version:
eg.

```
(C) Copyright 1988-94 Tecom Systems
V8-C-MF.103  E
```

(Indicates Version 8 Panel, Version 1.03 Software, Database Revision E)

Enter ~ Return to the Installer menu.

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LAMP TEST 12

This function is used to test all LEDs (lights) in the system. This includes LEDs on arming stations, card readers, etc.

The function allows you to turn all the LEDs on, exit the Installer menu, check the LEDs, then return to the menu option to turn the LEDs off.

The display will show the current setting: *eg.*

```
Lamp Test is Off
Code:
```

1 2 3 4 **Enter** ~ Enter your PIN code to turn on/off all LEDs in the system.

and/or **Enter** ~ Return to the Installer menu.

The condition of the lamp test is toggled ON to OFF or vice versa each time that PIN <ENTER> is used.

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TIME ZONES 13

This function is used to program time zones.

Time zones are used in conjunction with alarm groups, door groups, floor groups, relay mapping, Arm/Disarm timers and Out of Hours Access reporting in order to restrict/enable some *Challenger* operations during specific time periods.

There are two main types of Timezone, however both have the same function.

a/ Timezones programmed for specific times - as detailed in this menu option (numbers 0 to 24).

NOTE: Time zone 0 (zero) is a 24 hour time zone (always valid) and is not programmable.

b/ Timezones programmed to be active when a relay is active (numbers 26-41). *Refer to:* Installer menu option 22 - Timezone To Follow Relay.

A third type of timezone - Timezone 25 is valid while "Service Tech" is enabled, and can be used to control functions required during that period.
See "Service Time" in Installer Menu Option 6 & "Enable/Disable Service Tech" in User Guide - User Menu Option 17.

Notes: - Time zones are numbered 1 to 24.

- Each time zone is made up of four sub-zones, each containing a record of a start and end time, and days.
- Each sub-zone may operate individually, or the subzones may be linked to each other to form a more complex record.
- Where the start time for a time zone is on a different day to the end time, consecutive sub-zones can be linked.
- A time of 24:00 or 00:00 is not recognized and can therefore be used to carry the record over to the next sub-zone.
- The time zone becomes valid commencing at the start time on any day listed in the same sub-zone.
- The time zone becomes invalid (stops) at the end time on any day listed in the same sub-zone.
- A time zone is invalid on any holiday which has been declared in the holiday date file (User menu option 21) unless HOL is included as a day in the sub zone. If HOL is included, the timezone is valid on any holiday (even if the day of the week that it falls on is not included in the sub-zone) but only during the times recorded in the sub-zone.

The display will show:

```
Time Zones
TimeZone No:
```

? Enter ~ Enter the time zone number to be programmed and move to the first time zone display.

or **Enter** ~ Return to the Installer menu.

Each of the 4 sub-zones is programmed using 5 displays.

See next page for programming procedure.

TIME ZONES

Examples:

1. Time zone to be valid 8.00 am to 5.00 pm Monday to Friday
   8.00 am to Noon Saturday

   Tz 1.1 Start - 08:00 End - 17:00
   Days --,Mo,Tu,We,Th,Fr,--,--
   Tz 1.2 Start - 08:00 End 12:00
   Days --,--,--,--,--,--,Sa,--

2. Time zone valid 6.00am to 6.00pm Saturday, Sunday and Holidays.

   Tz 2.1 Start - 06:00 End 18:00
   Days Su,--,--,--,--,--,Sa,Hol

3. Time zone to be valid at any time.

   Tz 0

   or

   Tz 3.1 Start - 00:00 End - 24:00
   Days Su,Mo,Tu,We,Th,Fr,Sa,Hol

4. Time zone to be valid at any time between 7.00 am Monday and 7.00 pm Friday and between Noon and 9.00 pm on holidays.

   Tz 1.1 Start - 07:00 End - 24:00
   Days --,Mo,--,--,--,--,--,--
   Tz 1.2 Start - 00:00 End - 24:00
   Days --,--,Tu,We,Th,--,--,--
   Tz 1.3 Start - 00:00 End - 19:00
   Days --,--,--,--,--,Fr,--,--
   Tz 1.4 Start - 12:00 End - 21:00
   Days --,--,--,--,--,--,--,Hol

A timezone will always time out the last minute of the time programmed and once timed out, can take up to 30 seconds to cancel.

e.g. A timezone programmed with an End time of 17:00 will be valid until 17:00:59 and will cancel between 17:01:00 and 17:01:30.

The first 4 displays show the times for starting and ending the time period and allow you to record the start time hours, start time minutes, the end time hours and end time minutes.
eg.

```
Tz 1.1 Start - 08:00 End - 00:00
Start Hours:
```

[*] ~ Skip this timezone without changing and move to the next time zone to be programmed.

or **[Enter]** ~ Save the time values displayed and move to the days display.

or **[? Enter]** ~ Enter a new value for start hour and move to start minutes display.

eg.

```
Tz 1.1 Start - 09:00 End 17:30
Start Minutes:
```

Program start minutes, End hours, end minutes in the same way as you did Start hours.

Note: **If you wish to change one section of the time values only eg. End time from 20:00 to 21:00 you must key each value again until the one you wish to change is displayed.**

The next display will show the days of the week on which the time zone will be valid, and also whether it is valid on holidays.
eg.

```
Tz 1.1 Days: --,Mo.Tu,We,--,--,--,Hol
(1)Sun-(8)Hol:
```

[? Enter] ~ Add/Delete a day.
To add or delete a day enter the numerical value 1 to 7 for days of the week commencing Sunday, and/or 8 for holiday.
If the day entered is not recorded, it will be added and displayed.
If the day entered is already recorded, it will be deleted and removed from the display.

and/or **[Enter]** ~ Save the days displayed and move to the next sub-zone to be programmed or, if this is the last sub-zone for this time zone, to the select time zone display to program another timezone.

RESET DEFAULTS 14

This function is used to reset some of the system records to various default values.

99- All

This option resets all the system records to the factory default. All programming will be erased and the only options set will be the standard default values.

Refer to:
Table 4 for default values for alarm groups and the programming sheets for all other default values, where applicable. Where no default value is recorded on the programming sheet, it is set to zero or NO.

98-STD (Standard)

This option resets some of the system records to the factory default. The following records are defaulted:

Area database
Alarm Groups (11-29)
Times
System Options
Auto Reset
Time Zones
User Categorys
Arm/disarm Timers
Areas Assigned to Vaults
Areas linking
Relay to Follow Time Zone

Refer to:
Table 4 for default values for alarm groups and the programming sheets for all other default values, where applicable. Where no default value is recorded on the programming sheet, it is set to zero or NO.

Note: The input database is NOT reset.

97- Relays & Groups

This option resets the relay mapping and Door & Floor groups records to the factory default. The following records are defaulted:

Relays to No Event Flag
(Except for: Relay 16 defaulted to Event Flag 1
Relay 2 defaulted to Event Flay 2)
Door Groups
Floor Groups

2-History

This option deletes all events (messages) in the history and computer buffer.

The display will show:

```
99-All, 98-STD, 97-Rly/Grps, 2-History
Option:
```

Enter ~ Return to the Installer menu.

or **?Enter** ~ Enter the required option and return to the Installer menu.

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USER CATEGORY DATA 15

A User Category may be used when a user needs to control some or all of the areas in their alarm group in a manner different to that specified in the alarm group.

e.g. Use the timed access function on certain area/s.
Restrict alarm control to "Arm/Reset only" on certain area/s.
Utilize the "User Count for each area" or "Dead Man Alarm" function.

The User Category is used to group together a number of areas and define certain alarm system control functions or restrictions for those areas.

By allocating a user category to an alarm group, it is then possible for the users who have been assigned that alarm group, to perform the specified alarm system control functions for all the areas in the user category, by entering their code.

i.e. The user category feature can be programmed to allow a user to control various areas differently. A user, by entering a code, may perform different alarm system control functions on different areas.

The way the user category data is programmed will determine the alarm system control functions available to the user for each of their areas.

Examples:

1) A User's **alarm group** restricts the user to Disarm only on Areas 1, 2, 3, & 4.
A **User Category can be assigned to the alarm group** that will cause Areas 1 & 2 (but NOT Areas 3 & 4) to **automatically re-arm** after a programmed time whenever the user Disarms those areas.

2) A User's **alarm group** allows full alarm control (Arm, Disarm, Reset) on Areas 1, 2, 3, & 4.
A **User Category can be assigned to the alarm group** that will restrict the user to **Arm & Reset functions only** on Areas 3 & 4 while still allowing full control of areas 1 & 2.

User Category functions are described in full on the following page.

USER CATEGORY DATA

USER CATEGORY FUNCTIONS

1. Time Disarm of areas

Areas which are assigned to an alarm group and are programmed as *Areas To Time On* in User Category Data will have Time Disarm functions applicable.

User Categories 1 to 6:
When a user enters a code, it will disarm the programmed areas and set a timer running.

- The area will arm again when the timer has expired unless other timers are running.
- The area may be armed by the user by re-entering their code, provided the display does not show *Ending*. If other timers are running and the code is re-entered, the individual user category is cleared but the area is not armed.
- The timer may be extended by the user re-entering their code when the display shows *Ending* for their user category.
- A buzzer will be sounded as a warning when the timer is running out and the area is about to arm.

User Category 7:
Operates exactly as per User Categories 1 to 6 above, except that when the timer expires and the area/s re-arm a "Dead Man Alarm" (Guard Failed to Check In) message is reported to the monitoring station in all formats except for Securitel PIN.

User Category 8 - Special Function : User Count for each Area
When a user enters a code to disarm, it will disarm the programmed areas and increment a user count, for each area, by 1.

- When the user enters their code again to arm, the user count for each area will be decreased by one.
- The display will always show the user count.
- The area may be armed by the user by re-entering their code to arm, provided the user count for each of the areas to be armed, is down to 1 before the code is entered. i.e. The next code will reduce the count to 0 & arm the area/s.
- Timers do not operate for user category 8.
- Can count a maximum of 255 Users per Area.

2. Arm/Reset of areas

Areas which are assigned to an alarm group and are programmed as *Areas to Arm/Reset* in User CategoryData will have only Arm/Reset functions applicable.
When a user enters a code it will arm the programmed areas, regardless of any timers running, (but cannot disarm),or it will reset alarms in the programmed areas.

3. Time Disarm/Arm Reset

Areas which are assigned to an alarm group and are programmed both as *Areas To Time On* and *Areas To Arm/Reset* will have both Time Disarm and Arm/Reset functions applicable.
When a user enters a code, all of the Time Disarm functions are applicable except that when re-entering a code, the Arm/Reset function will apply and the system is armed regardless of any timers running.

4. No user category Function

Areas which are assigned to an alarm group but are not included in the user category data, will have standard alarm system control functions applicable as specified in the alarm group. eg. code Enter to arm/disarm etc.

Notes:

1. The amount of time that the timer runs is programmed on Installer menu option 6 - Times or 2 - Area Database. If the timer is set to zero, the user category will not time out. The user category functions in exactly the same way except a timer does not run and will therefore not arm areas on expiry.
2. The amount of time that a warning appears and an audible alert sounds is programmed on Installer menu option 6 - Times.
3. User Category are assigned to alarm groups in Installer menu option 5 - Alarm Groups.
4. A user cannot operate user categorys unless the arming station they are using has the same user categorys in it's alarm group.

USER CATEGORY NUMBER

User Categorys may be numbered 1 to 8.

The display will show :

```
User Category Programming
Cat No:
```

? Enter ~ Enter the category number to be programmed.

or **Enter** ~ Exit to the Installer Menu.

USER CATEGORY NAME

The name of a User Category is selected from a list of words already held by *The Challenger*. These words can be from the standard word library - *Refer to:* Table 2 or from a list of words which you have programmed - *Refer to:* Installers Menu Option 10 - Text Words.

To program the User Category name, the word is recorded by using it's reference number.

The name given to a User Category should reflect the function of the User Category.

The display will show the existing name of the User Category and the word reference number for that name:
eg.

```
Category Name: 0352, Cleaner
Word No:
```

? Enter ~ Enter the reference number for the word which will be used to describe this User Cat.. Display the new name.

and/or **Enter** ~ Save the displayed name and move to the next display.

AREAS TO TIME ON

This record lists areas programmed for Time Disarm.

When a user enters a code, it will disarm the programmed areas and set a timer running.

The area/s listed in this option must also be listed in the Alarm Group that the User Category is assigned to, in order for the function to be enabled on those areas.

The display will show the existing list of areas programmed to *time on* for that user category:
eg.

```
1,2,3,6,7,
1, Time Area:
```

? Enter ~ Add/Delete an area.
If the area entered is not recorded, it will be added and displayed.
If the area entered is already recorded, it will be deleted and removed from the display.

and/or **Enter** ~ Save the displayed areas and move to the next user category data display.

ARM/RESET

This record lists areas programmed for Arm/Reset.

When a user enters a code, it will arm the programmed areas or reset alarms in the programmed areas.

The area/s listed in this option must also be listed in the Alarm Group that the User Category is assigned to, in order for the function to be enabled on those areas.

The display will show the existing list of areas programmed to Arm/Reset:
eg.

```
1,2,3,4,5,
1,A/R Area:
```

? Enter ~ Add/Delete an area.
If the area entered is not recorded, it will be added and displayed.
If the area entered is already recorded, it will be deleted and removed from the display.

and/or **Enter** ~ Save the displayed areas and move to the next user category data display.

ALTERNATES

It is possible to program two sets of alternate values to apply when alternate alarm groups are in use.

eg. Alarm group 31 has been assigned User Category 4. Alarm group 31 has an alternate alarm group-32. User category 4 can be programmed with alternate Areas To Time On/ or Arm/Reset which will be used when alarm group 31's alternate alarm group (32) is in use.
The User Category 4 function must be set to YES in both the main & alternate alarm group, 31 & 32.

See diagram on the following page.

Note: The remaining 4 displays for the selected user category are for *Areas To Time On* and *Areas To Arm/Reset* which apply when each of the alternate alarm groups are in use.
eg.

```
9,10,
2,Time Area:
```

To program alternates, follow the same procedure as shown above.

Example of Alternates:

Whether the Main or Alternate User Category values are used is determined by whether the Alarm Group is being used as the User's main Alarm Group, or an alternate.

In this example:

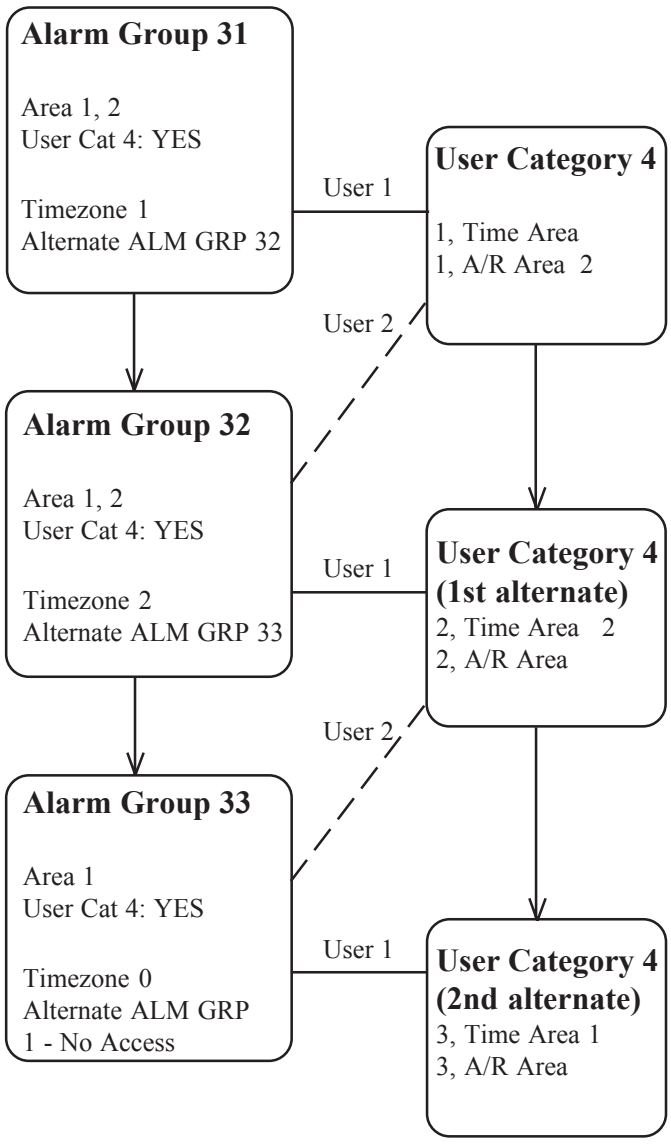
User 1 is assigned **Alarm Group 31** as their **main** Alarm Group.
Their Alternate Alarm Groups are therefore Alarm Groups 32, then 33.
In this example All three Alarm Groups have User Category 4 assigned.

The User Category 4 functions valid for each of their Alarm group alternatives are shown by the **solid lines**.

User 2 is assigned **Alarm Group 32** as their **main** Alarm Group.
Their alternate Alarm Group is therefore Alarm Group 33.

The User Category 4 functions valid for each of their Alarm group alternatives are shown by the **broken lines**.

(Since Alarm Group 32 is this user's Main Alm Grp, the Main User Cat functions are used when Alm Grp 32 is valid for this user)



User 1 has Alarm Group 31 assigned in "Program Users":

Timezone 1 is valid	-	Has full Alarm Control on Area 1.
(Alm Grp 31 valid)	-	Has ability to Arm & Reset Only on Area 2.
Tz 1 is invalid, but Tz 2 is valid	-	Has full Alarm Control on Area 1.
(Alm Grp 32 valid)	-	Has ability to Time Disarm on Area 2.
Tz 1 & 2 are invalid, but Tz 0 is valid	-	Has ability to Time Disarm only on Area 1.
(Alm Grp 33 valid)	-	Has no control on Area 2.

User 2 has Alarm Group 32 assigned in "Program Users":

Timezone 2 is valid	-	Has full Alarm Control on Area 1.
(Alm Grp 32 valid)	-	Has ability to Arm & Reset Only on Area 2.
Tz 2 is invalid, but Tz 0 is valid	-	Has full Alarm Control on Area 1 only.
(Alm Grp 33 valid)	-	Time Disarm on Area 2 is invalid as the area is not listed in Alm Grp 33.

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RELAY MAPPING 16

This function is used to record details of settings which control the activity of relays.
See logic diagram on the following page.

RELAY NUMBER

Each relay has a specific number which will physically identify it.
The relay number is determined by the address of the device the relay card is connected to.

Refer to: Numbers - Inputs/DGPs/Relays/Doors.

The display will show:

```
Relay Mapping
Relay No:
```

? Enter ~ Enter the number of the relay to be programmed and move to the next display.

or **Enter** ~ Return to the Installer menu.

EVENT FLAG NUMBER

The event number recorded is the event flag which will activate this relay.

An event flag is a signal activated by an input condition, area condition, system status or fault condition, door command (on doors 1 to 16) or shunt timer condition.

The relays will follow the logic of the event flags unless the timezone (if programmed) is valid.

If Event number 0 is programmed, the relay will not follow any Event Flag.

If you entered a relay number, the display will show the event flag currently recorded for that relay:
eg.

```
Relay 3 Mapped to Event Flag ?
Event Flag.:
```

? Enter ~ Enter and display a new event flag number.

and/or **Enter** ~ Save the displayed event flag number and move to the next relay assignment display for this relay.

and/or ***** ~ Save the displayed event flag number and move to the same display for the next relay number.

Defaults:
In version 7 or 8 software the only relay mapping defaults are as follows:

Relay 2 (Strobe O/P)	mapped to	Event Flag 2.
Relay 16 (Panel Siren O/P)	mapped to	Event Flag 1.
Relay 32, 48, 64, 80, 96, 112, 128, 144, 160, 176, 192, 208 224, 240 (DGP Siren O/P's)	mapped to	Event Flag 1.

TIMEZONE

The timezone number recorded will control the times that a relay is active/inactive.

If a timezone is programmed, it will set the relay when the time is valid. The status of the event flag is irrelevant when the timezone is valid.
When the timezone is not valid, the relay follows the logic of the event flag.

If no timezone is programmed the relay follows the logic of the event flag.

If you pressed Enter, the display will show the timezone currently assigned to the relay:
eg.

```
Relay 3 Timezone 12
Timezone No:
```

? Enter ~ Enter and display a new timezone number.

and/or **Enter** ~ Save the displayed timezone number and move to the next relay assignment display for this relay.

The display will show the existing setting:

ACTIVE/INACTIVE DURING TIMEZONE

Active: If this record is set at *Activate During Timezone*, the relay will activate when the timezone is valid regardless of the status of the event flag and provided the relay is not inverted.

Inactive: If this record is set at *Inactive During Timezone*, the relay will not activate when the timezone is valid regardless of the status of the event flag and provided the relay is not inverted.

If the timezone is not valid, the relay follows the logic of the event flag.

eg.

```
Relay 3 InActive During Timezone
*-Change
```

[*] ~ Change the status Active to Inactive or Inactive to Active and display the new status.

and/or **Enter** ~ Save the displayed setting and move to the next relay assignment display.

RELAY IS INVERTED

Inverted: If the relay is inverted, the logic controlling the relay is reversed.
eg. If the previous logic determines that the relay is to be ON, this record would change it to OFF.

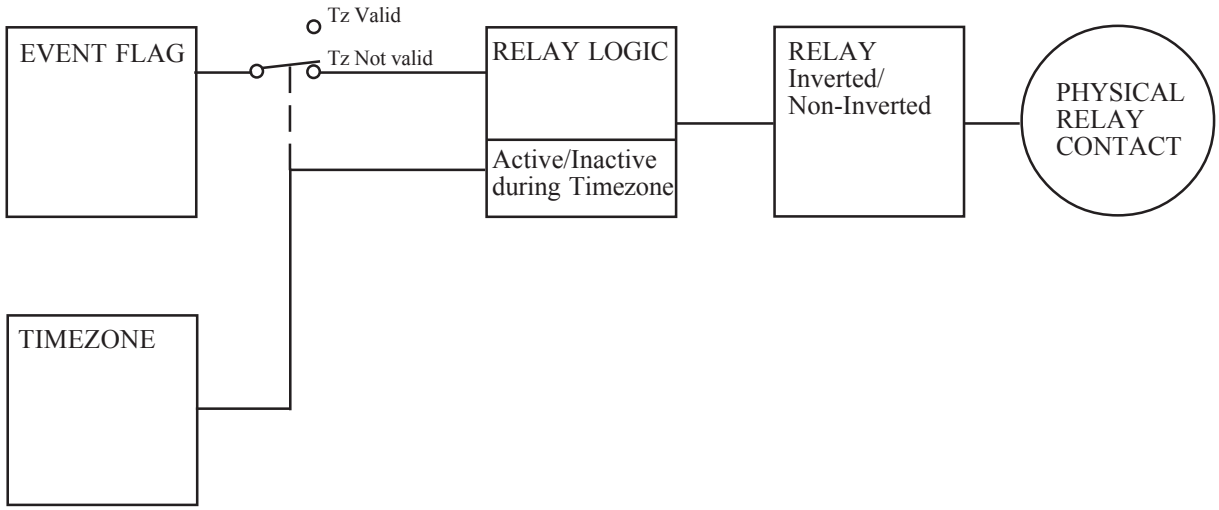
The display will show the existing setting:
eg;

```
Relay 3 is NON-Inverted
*-Change
```

[*] ~ Change the status Non-Invert to Inverted or Inverted to Non-Invert and display the new status.

and/or **Enter** ~ Save the displayed setting and return to the initial display to program another relay number.

RELAY LOGIC DIAGRAM



ARM/DISARM TIMERS 17

An Arm/Disarm Timer is used when you wish to ensure that areas are armed and/or disarmed at a particular time without the need to enter a user code.

This function is used to relate a time zone and alarm groups to the arm/disarm functions. When this is done, the areas assigned to the alarm group will arm/disarm in accordance with the time zone designations.

When the specific time zone becomes valid (the recorded time commences) the area will disarm.
When the specific time zone expires (the recorded time ends) the areas will arm.

Note: 1. The records in the alarm group determine the exact operation of this function. The function will follow all the guidelines of the alarm group regarding alarm control etc.
eg.
- If the alarm group shows YES for Arm & Reset only, then this function will only arm areas.
- If the alarm group shows YES for disarm only, then this function will only disarm areas.

Refer to: Installer menu option 5 - Alarm Groups, for further information.

- If the alarm group shows YES for a User Category, then this function may allow a user to extend the time that the area/s are disarmed for a specified period.

Refer to: Notes on the following page.

2. Each timezone/alarm group connection is called a program.
There are 16 programs, one for each possible area. A different program must be completed for each area, or set of areas, where you require different functions. eg. disarm at different times.

3. When programming Alarm Groups, a Timezone can be assigned to the Alarm Group to specify when the alarm group is valid.
The Alarm Group assigned to an Arm/Disarm timer program does not require a Timezone. The Timezone is linked to the alarm group in these Arm/Disarm timer programs.

The display will show:

```
Arm/Disarm Tz
Program No.:
```

? Enter ~ Enter the number of the arm/disarm program that you wish to update and move to the next arm/disarm timers display.

or **Enter** ~ Return to the Installer menu.

If you entered a program number, the display will show the current timezone for the selected program:
eg.

```
Pgm: 1 TimeZone 2
TimeZone No:
```

? Enter ~ Enter and display a new timezone.

and/or **Enter** ~ Save the displayed timezone and move to the next arm/disarm timers display.

The display will show the current alarm group for the selected program:
eg.

```
Pgm: 1 Alm-Grp: 14-Area One
Alm-Grp:
```

? Enter ~ Enter and display a new alarm group.

and/or **Enter** ~ Save the displayed alarm group and return to the first display to select another program number.

USING USER CATEGORIES IN CONJUNCTION WITH ARM/DISARM TIMERS.

By assigning a User Category function with area/s programmed as "Area/s to Time On" to the Alarm Group used in the Arm/Disarm Timer program, it is possible for users to be able to extend the time that the area/s are disarmed by entering their code (or presenting their card) during the "Warning Time".

The following Options must be programmed to achieve this function:

1) A User Category must be programmed with the area/s required to time disarm.
(The area/s must also be included in any Alarm Groups that the User Category is assigned to - see below)

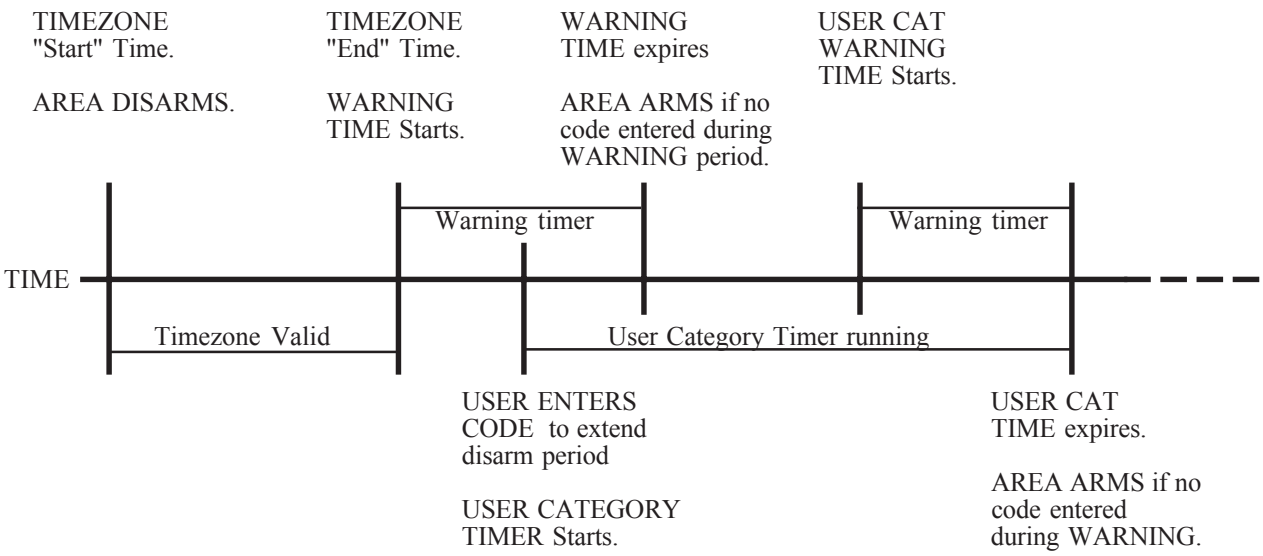
2) The **same** User Category (as programmed above) must be set to YES in:
   - The Alarm Group used in the Arm/Disarm timer program.
   - The Alarm Group assigned to the Arming Station/s or Door Reader/s at which the user is required to perform the function.
   - The Alarm Group assigned to the user/s who will perform the function.

3) The required times must be programmed in Installer Menu Option 6: -Timers:
   - "User Category Time". The time that the disarm period will be extended by.
   - "Warning Time". The time that the console warning will sound before the area/s automatically arm. The code/card must be presented during the warning period to extend the disarm time.

4) If a separate warning beeper is required to be activated from a relay, map the relay to the "Warning Event Flag" which is programmed in the "Area Database/s" for the area/s specified in the User Category.

5) Ensure that the programming of the User's & Arming Station's Alarm Groups and the Arming Station details allow the disarming procedure.

Refer to: Installer Menu Option 15: - User Categories.
Installer Menu Option 5: - Alarm Groups.
Installer Menu Option 6: - Timers.
User Menu Option 14: - Program Users.



AREAS ASSIGN TO VAULTS 18

This function is used to record areas which are to be treated as vaults. This then allows a special procedure to be used for automatically timing on non vault areas when arming vaults.

When all of the areas assigned to vaults are armed, a timer will commence so that the area the vaults are linked to will arm at the expiry of the timer.

eg. A building has 3 office areas (areas 2, 3 & 4) and a common foyer (area 1). Assigning the office areas as vaults would allow the foyer to be armed at a set time after the last office is armed.

Note: For the special procedure for vaults to operate:

- Areas must be assigned to vaults on this option.
- The record *Disable Auto Insert of User Categorys* must be set at NO on Installer menu option 7 - System Options.
- The area to be timed on must be linked to the areas designated as vaults on Installer menu option 19 - Area Linking.
- The areas designated as vaults must be included in a user category to *Arm/Reset* in Installer menu option 15 - User Category Data.
- The time required before the area to be timed on arms is programmed in Installer menu option 6 - Times. The time is programmed for the same User Category as mentioned above.
- The User category is then inserted into the necessary Alarm Groups (Assigned to Users/RASs) to enable the function to be used. The alarm group must include the area/s assigned to the user category function/s if the user category functions are to operate.

The display will show areas presently assigned as vaults:
eg.

```
2, 3, 4,
Area:
```

? Enter ~ Add/Delete an area.
If the area entered is not shown on the display, it will be added and displayed.
If the area entered is already shown on the display, it will be deleted and removed from the display.

and/or **Enter** ~ Save the displayed areas and return to the Installer menu.

This page intentionally left blank.

AREA LINKING 19

This function is used to link an area to a number of other areas.

This enables the status of any one of the linked areas to control the status of the one area they're linked to.

eg. Area 1 is a foyer.
Area 1 is linked to areas 2, 3, 4,
When any of areas 2, 3 or 4 is disarmed, area 1 will be disarmed.
When all of areas 2, 3 and 4 are armed, area 1 will be armed.

The linked status operates for all system functions.
eg. Area 1 is linked to areas 2, 3, 4.
A user with area 3 can therefore reset an alarm in area 1.

The display will show:

```
Area Linking
Area:
```

? Enter ~ Enter the area number for the area that you wish to link other areas to and move to the next areas linking display.

or **Enter** ~ Return to the Installer menu.

The display will show the areas currently linked:
eg.

```
Area 1:  2,3,4
Areas:
```

? Enter ~ Add/Delete an area.
If the area entered is not recorded it will be added and displayed.
If the area entered is already recorded, it will be deleted and removed from the display.

and/or **Enter** - Save the displayed areas and return to the first display.

This page intentionally left blank.

SITE CODE (Facility Code) 20

This function is used to record the site identification number used by access control cards being used with Card Readers connected to the Challenger System LAN. (i.e. Arming Stations 1 to 16). The Site Code for readers on Door/Lift Controllers is NOT recorded here.

Each system has a unique site ID which is provided by *The Challenger* manufacturer/distributor.

SITE CODE (OR SITE CODE A)

(Site code is also called facility code)

Records the site identification number used in cards.
Each system has a unique site ID.

NOTE: THE FOLLOWING OPTIONS ARE ONLY AVAILABLE IN V7.08 / V8.08 OR LATER.

Two Site code numbers and associated Card Offsets can be programmed.
This is to enable the system to be used with two sets of cards on different Site codes. e.g. For ease of use during a changeover period when a system has been commissioned using a set of standard cards while awaiting delivery of customised cards.

The display will show the Site Code currently recorded:
eg.

```
Site Code A: 004346
Site Code:
```

? Enter ~ Enter and display a new card site number.
Note: **For most card formats, the complete 6 digit number must be entered, including leading zeros. (See next page)**

and/or **Enter** ~ Save the displayed site number and return to the Installer menu.

CARD OFFSET A

This record specifies a number that is added to, or subtracted from the actual card ID number, for cards on Site Code A. The resultant card ID after processing is the number which is used when programming users; and which is reported to the printer and computer.

e.g. Card offset is programmed as -5000.
Actual physical card ID number is 5001.
Card will be programmed as User 1; and will report as User 1.

The display will show the existing card offset:
e.g.

```
Card Offset A +0
*-Neg,  No:
```

* ~ Change the displayed option from negative to positive or vice versa.

and/or ?? ~ Enter the Card Offset required.

and/or # ~ Save the displayed setting and move to the next display.

SITE CODE B

Records a second site identification number used in cards.
Each system has a unique site ID.

```
Site Code B: 005678
Site Code:
```

CARD OFFSET B

This record specifies a number that is added to, or subtracted from the actual card ID number for cards on Site Code B.
See explanation above.

```
Card Offset B +0
*-Neg,  No:
```

See over page for Site Code lengths for Card formats.

SITE CODE LENGTH

This table specifies the number of digits required to be programmed for the Site Code, for various Card formats available.
Where a format specifies a larger number of digits for the site code than that specified with the cards supplied, leading zero's are inserted to make up the correct number of digits.
e.g. Proximity & Wiegand formats.

Card Format	Site Code Length
Indala Proximity	6 digits
Wiegand Swipe/Key Insert	6 digits
Magnetic Swipe - Tecom format	6 digits
Magnetic Swipe - Club format	2 digits

INPUT SHUNTS 21

This function is used to program details of a shunt timer which controls a shunt procedure.
A shunt procedure inhibits an input from being activated when in an unsealed condition and for a set time period. eg. shunt stops a door generating an alarm when it is opened.

Each shunt procedure is controlled by a shunt timer and each shunt timer must be individually programmed.

SHUNT TIMER NUMBER

Records the number of the shunt timer.
There are 16 Shunt Timers available.

Note: Where a keypad is used to start the timer, the shunt timer number must be the same as the arming station number (1 to 16).

The display will show:

```
Shunt Timers
Shunt No:
```

? Enter ~ Enter the shunt timer number to be programmed and move to the next display.

or **Enter** ~ Return to the Installer menu.

INPUT NUMBER

Records the number of the input which is to be shunted.

An input CANNOT be assigned to more than one Shunt timer.

The display will show the current input number which relates to this shunt timer:
eg.

```
Shunt 1 : Shunts Input 200
Input No:
```

? Enter ~ Enter and display a new input number.

and/or **Enter** ~ Save the displayed input and move to the next Input Shunt display.

RELAY NUMBER

Allows the option of recording the number of the relay which is connected to the shunt timer.
The relay condition controls whether the input remains shunted or not. If the relay is active, the input is always shunted.

When the relay de-activates, the Shunt timer continues to run for the programmed "Shunt time".

The display will show the relay assigned to this shunt timer:
eg.

```
Shunt 1 : Shunts Input by Relay 2
Relay No:
```

? Enter ~ Enter and display a new relay number.

and/or **Enter** ~ Save the displayed relay and move to the next Input Shunt display.

SHUNT TIME

Records the amount of time that the input will be shunted. If the time expires and the input remains unsealed, an "input active" condition will be processed. (e.g. alarm condition will occur) Actual result will depend on the input type.

If the value entered is less than 128, the time is in seconds. i.e. 1 to 127 seconds.
To set the time in minutes the value entered is 128 plus the time required in minutes.
e.g. For 30 minutes enter 158. (128 + 30 = 158)

A value of 128 is invalid and cannot be used.
For accurate timing of 1 or 2 minute periods, set the time in seconds. i.e. 60 or 120 seconds.

The display will show the current shunt time:
eg.

```
Shunt 1 : Time Is Set For (Sec) 30
Shunt Time:
```

? Enter ~ Enter and display a new shunt time.

and/or **Enter** ~ Save the displayed time and move to the next Input Shunt display.

WARNING TIME

Records the amount of time before the shunt expires that the shunt warning event will be active.

If the shunt time is in seconds, then the warning time is also in seconds.

If the shunt time is in minutes, then the warning time is also in minutes.

The display will show the current shunt warning time:
eg.

```
Shunt Warning is 0
Warn Time:
```

? Enter ~ Enter and display a new shunt warning time.

and/or **Enter** ~ Save the displayed time and move to the next Input Shunt display.

SHUNT EVENT FLAG

The event flag assigned in this record will be activated when the shunt timer is running.

The display will show the current shunt event:
eg.

```
Shunt Event Flag is 4
Event Flag:
```

? Enter ~ Enter and display a new shunt event flag number.

and/or **Enter** ~ Save the displayed event and move to the next Input Shunt display.

SHUNT WARNING EVENT FLAG

The event flag assigned in this record will be activated when the shunt warning time is active.

The display will show the current shunt warning event:
eg.

```
Shunt Warning Event Flag is 12
Event Flag:
```

? Enter ~ Enter and display a new shunt warning event flag number.

and/or **Enter** ~ Save the displayed event and move to the next Input Shunt display.

The programming for the next 7 records is the same.

The display will show the existing setting:
eg.

```
NO - Door Open Command Start Shunt
*-Change  0 - Skip
```

[*] ~ Change NO to YES or YES to NO.

and/or [0] ~ Return to the original display to select another shunt timer number.

and/or [Enter] ~ Save the displayed setting and move to the next shunt timer display for this shunt timer.

DOOR OPEN COMMAND

YES - A keypad or shunt relay is required to start the shunt timer. If a keypad is used, the user must have a valid door group assigned.

NO - The condition of the input - sealed to unsealed, triggers the timer.

Notes: 1. If this option is set to YES and the keypad or shunt relay starts the shunt timer, the timer will reset if the input does not go unsealed within the time shown below.
3 Seconds if shunt time programmed for 1 to 127 secs.
3 Minutes if shunt timer programmed for 1 to 127 mins.

2. If this option is set to YES, "Entry/Exit Shunting" must be set to NO.

Example of display:

```
NO - Door Open Command Start Shunt
*-Change  0 - Skip
```

DOOR SHUNTED IN ACCESS *

Records whether the door shunt procedure operates when one or more of the areas assigned to the shunted input, is in access.

```
NO - Door Shunted in Access
*-Change  0 - Skip
```

DOOR SHUNTED IN SECURE *

Records whether the door shunt procedure operates when **all** the areas assigned to the shunted input, are secure.

```
NO - Door Shunted in Secure
*-Change  0 - Skip
```

* **At least one of these two options MUST be set to YES before any shunting will occur.**

CANCEL DOOR EVENT FLAG

YES - As soon as the input allocated to the shunt timer is active (unsealed) and then sealed, it cancels the door unlock event and cancels the shunt timer.

```
NO - Cancel Door Event Flag
*-Change  0 - Skip
```

INPUT HOLDS EVENT FLAG AT 2 SECS

This record is used for doors with magnetic locks and drop bolts.

YES - To allow time for a door to be properly closed, there is a 2 second delay after the input seals and before it cancels the door event and shunt timer.

Example of display:

```
NO - Input Holds Event Flag At 2 Sec
*-Change  0 - Skip
```

ENTRY/EXIT SHUNTING

YES - A code is required to be entered to start the shunting or if it is not then it must be entered before the shunting expires or an alarm will be activated.

Note: If this option is set to YES, the "Door Open Command" must be set to NO.

```
NO - Entry Exit Shunting
*-Change  0 - Skip
```

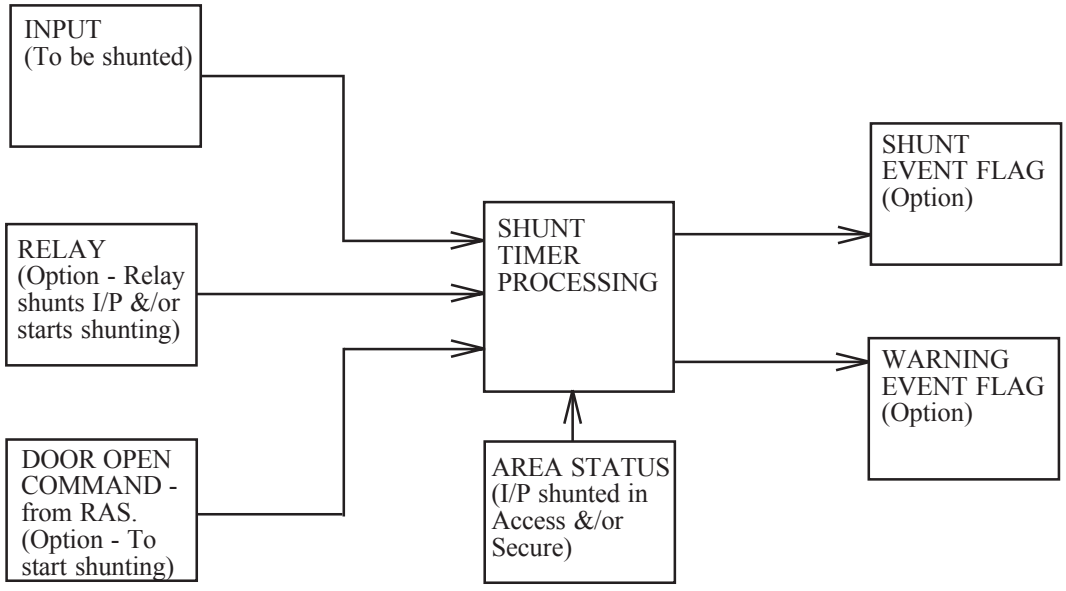
REPORT DOOR OPEN/CLOSE

YES - This will cause the input to report to the printer each time it changes from sealed to unsealed and visa versa.

Note: If "Print Input When Unsealed" is set to YES in Option 1 - Input Database, for the input assigned to the Shunt timer, a Door Open message will be sent twice.

```
NO - Report Door Open/Close
*-Change  0 - Skip
```

SHUNT TIMER LOGIC DIAGRAM



TIME ZONE TO FOLLOW RELAYS 22

This record is used to program a timezone to be active only when a relay is active.

If this timezone is then assigned to an alarm group, the functions of that alarm group are only enabled when the relay is active.

The timezones programmed here do not record times as shown in Installer menu option 13.

Note: When programming **Door Groups**, Timezones 26 to 41 can only be used with Doors 1 to 16.
Doors 17 to 64 connect to Intelligent Door Controllers which only recognize Timezones 0 to 24.

Timezones 26 to 41 cannot be used in **Floor Groups** at all.

The display will show:

```
Relay To Time Zones
TZ. (26-41):
```

? Enter ~ Enter the timezone number to be programmed and move to the next display.

or **Enter** ~ Return to the Installer menu.

The display will show the existing relay/ timezone assignment:
eg.

```
Tz 27 To Follow Relay 3
Relay No:
```

? Enter ~ Enter and display a new relay number to activate this timezone.

and/or **Enter** ~ Save the displayed relay number and return to the Installer menu.

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POLL ERRORS 23

This function is used to indicate how many errors have been detected in communications between *The Challenger* and units connected to it.

Unit numbers are as follows:

RAS 1-16	Arming Stations 1 to 16
DGP 0	Panel Comms to Monitoring Station
DGP 1-15	Data Gathering Panels 1 to 15

Note: The error count for all units should be set to zero when the system is deemed to be error free after installation. If this is not done, errors which occurred during installation may distort any error count.

The maximum error count that can be recorded is 255.

The display will show :
eg.

```
1-Ras, 2-Dgp, 3-Clear All Counters
0-Exit, Menu:
```

3 Enter ~ Clear all counters.

or **? Enter** ~ Enter the number of the unit type (Ras or Dgp) to be checked and move to the next display.

or **Enter** ~ Return to the Installer menu.

If a unit type is selected ("Ras" or "Dgp") the display will show :

```
Ras 1, Poll Error Count Is 0
0-Exit, Ras No::
```

or **? Enter** ~ Enter the number of the unit to be checked and display error count.

or ***** ~ Scroll forward through the unit numbers and display error counts.

or **Enter** ~ Return to the Unit type selection display.

or **0 Enter** ~ Return to the Installer menu.

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DOWNLOAD 24

This function is used to download data relating to access control functions to the Intelligent Access Controller DGPs e.g. 4 Door Controllers and Lift Controllers.

If the Intelligent Controller/s are programmed to be polled and are On-line while the relevant database options are being programmed in the Challenger, the information will be downloaded automatically as it is programmed.

If, however, an Intelligent Controller is added to the system at a later date, or has had to be defaulted or replaced, then the relevant User, Door/Floor Group, Timezone and Holiday data can be downloaded using this Installer Menu Option.

This database information is stored in the Intelligent Controllers as well as in the Challenger Panel database to enable the Intelligent Controllers to operate as stand-alone access controllers if LAN communication with the Challenger Panel is interrupted.

The display will show :
eg.

```
1-Display Status 2-Down Load Options
Option:
```

? Enter ~ Enter the number of the option required and move to the next display.

or **Enter** ~ Return to the Installer menu.

DOWN LOAD ALL

This option is used to select the database to be downloaded.

1	Kill	- Terminates any Downloading in progress; and in the Intelligent controller, erases the current database being downloaded .
2	Users	- Users.
3	Groups	- Door Groups & Floor Groups.
4	Timezones	- Timezones 0 to 24.
5	Holidays	- Holidays.

If "Down Load All" is selected the display will show :

```
1-Kill 2-Users 3-Grps 4-Tz 5-Hol
Option:
```

? Enter ~ Enter the number of the option to download and return to the previous display.

or **Enter** ~ Return to the previous display.

DISPLAY STATUS

This option is used to indicate the status of the download.

This display will show:
- The Database Option being downloaded
- The total number of records to be downloaded for the option in progress.
- The number of records already downloaded
- The number of records in the Queue

If "Display Status" is selected after a database option has been selected to be downloaded (e.g. 3-Groups) the display will show :

```
Add Door Group 0012 - 0128
Que = 0005
```

0 ~ Update the status display

or **Enter** ~ Return to the previous display.

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DISPLAY CARD 25

This function is used to indicate the Site Code and I.D number of the last card presented to a Reader connected to the Challenger LAN.

i.e. At Arming Stations (Doors) 1 to 16 only.
Not at doors 17 to 64 on Intelligent Access controllers.

Notes: 1. The card must be of a valid format that the system is programmed to recognise.

2. If the correct Site Code is not entered in Option 20, only the Site No. will be displayed & not the Card ID.

3. If the correct Site Code is programmed in Option 20, the Site Code and Card ID will be displayed.

The display will show :
eg.

```
Last Card  FC=0000  User=0000
Press ENTER
```

Enter ~ Return to the Installer menu.

EDIT 26

CAUTION. DO NOT USE.

This function is used to access the Challenger Database using a special keypad procedure, and is only for factory diagnostic functions.

The display will show :

```
Contact Tecom Before Using
Enter
```

This page intentionally left blank.

TECOM ADDRESS MAPPING 27

This function is used when the Challenger Panel is reporting to the remote monitoring company using the Tecom Direct Line format.

It is used to display:

1. The Direct Line Number that the Panel has been programmed to report on. (Programmed at the Network Receiver)

2. The Number which indicates the Panel's physical position in the Direct Line Network.
i.e. Highway, Link, Sub-link, Line and Panel number.

The display will show :
eg.

```
Report Number:-000000 Physical:-00000
Press ENTER
```

Enter ~ Return to the Installer menu.

REMOTE CONTROLLERS 28

This function is used to access the Programming Options for Intelligent Access Controller DGPs.
e.g. 4Door Controllers and Lift Controllers.

When a Remote Unit Number is selected, a programming connection will be established on the Challenger LAN which enables programming of the Intelligent Access Controller DGP selected.

The Intelligent Access Controller **must be**:
1. Connected to the Challenger LAN.
2. Addressed as a DGP with on-board DIPswitches.
3. Programmed to be polled and correct DGP type selected in Installer Menu Option 4 - DGPs.
4. Fitted with Version 7 or Version 8 Software.

The Remote Unit Number selected is the DGP Address number of the Intelligent Access Controller.

Refer to the: Version 7/8 4 Door controller Programming guide or Version 7/8 Lift controller Programming guide for programming details.

Note: Version 6 Challenger Upgrades.
If Version 7 Software is fitted to the V6 Challenger Panel, corresponding Version 7 Software MUST be fitted to any Intelligent Access Controllers, and the controllers reprogrammed.

The display will show :
eg.

```
Remote Controller Setup
Remote No:
```

? Enter ~ Enter the number of the remote unit and move to the next display.

or **Enter** ~ Return to the Installer menu.

This page intentionally left blank.

SECURITY PASSWORD 29

SECURITY PASSWORD

Records the 10 digit Security Password required to access the Challenger Panel via the Upload/Download PC software.

The PC can connect to the Challenger Panel via dial-up or direct connection to the computer interface. (If fitted to the Panel)

The default Password is 0000000000.
TS9000 software will always connect to a panel with the default password, but will update the password to the password programmed in the TS9000 software for the Challenger currently opened.

The display will show the existing Security Password:
eg.

```
Security Password 0000000000
Pass:
```

? Enter ~ Enter the new Security Password number and display the new number.

or **Enter** ~ Return to the Installer menu.

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PRINTER 30

This option records details of the printer output options. To obtain a printer output from the Challenger Panel, a Serial Printer Interface (TS0094) or Serial Computer & Printer Interface (TS0091) must be fitted.

ENABLE REAL -TIME PRINTER

Records the details of the printer function.

YES - This will enable the printer port on the Challenger to print each event as it happens. ("Print History" may still be used if required)

NO - A printer is not connected or you do not require the printer to run in real time. "Print History" must be used to obtain a print-out.

PRINT ALARM EVENTS

YES - This will enable all alarm events to be printed.

PRINT ACCESS CONTROL EVENTS

YES - This will enable all access control events to be printed.

Note: At least one of these two questions must be set to YES before anything will be printed.

DUMP PRINT DATA OUTSIDE TIMEZONE

YES - If a timezone is specified in the following option, the printer will only be active OUTSIDE that timezone. i.e. When the timezone is not valid.

NO - The printer will only be active during the specified timezone.

TIMEZONE

The printer will only be active during the timezone specified unless "Dump Print Data Outside Tz" above is set to YES.
The default timezone is Tz 0 (Always valid)

Programming Procedure:

The display will show the current printer function: *eg.*

```
NO - Enable Real Time Printer
*-Change 0-Skip
```

[*] ~ Change YES to NO, or NO to YES.

or [0] ~ Skip to the Timezone display.

or [Enter] ~ Save the displayed setting and move to the next Printer display.

Example of display:

```
NO - Print Alarm Events
*-Change 0-Skip
```

```
NO - Print Access Control Events
*-Change 0-Skip
```

```
NO - Dump Print Data Outside Tz
*-Change 0-Skip
```

```
NO - Print During Timezone 0
Tz No:
```

PRINTER TYPE

The printer interface can be programmed for an Epson dot matrix or HPII laser printer with optional communication settings.

Option		Baud	Word	Parity	Stop
1	Epson	9600	7 bit	Even	1
2	Laser HPII	9600	8 bit	None	1
3	Laser HPII	19200	8 bit	None	1
4	Epson	9600	7 bit	Odd	1
5	Epson	9600	7 bit	None	1
6	Epson	9600	8 bit	None	1
7	Epson	9600	8 bit	Odd	1
8	Epson	9600	8 bit	Even	1

The display will show the current printer settings: *eg*.

```
Epson Printer 9600,7,e,1
Option:
```

? Enter ~ Enter a new printer option and return to the Installer menu.

or **Enter** ~ Save the displayed printer option and return to the Installer menu.

BATTERY TEST 31

Battery Test records the details of the automatic battery test procedure and enables manual battery test to be started.

For the period of the Battery Test, the panel and/or DGPs and all aux. driven devices will be powered from the battery.
The start of the battery test for each of the devices to be tested is staggered, so that all devices don,t switch tobattery test at once.

BATTERY TEST FREQUENCY

Records how often the automatic battery test will occur.

Options: Disabled
Every Working Day
Every Monday
First Monday of the Month

BATTERY TEST START TIME

Records the time of day, in hours and minutes, that the battery test will start.

BATTERY TEST PERIOD

Records the period, in minutes, that the automatic battery test will run for.

If a battery test on any device fails, that device will immediately restore AC power.

The display will show the battery test menu:
eg.

```
Battery Testing; 1-Program, 2-Test
Menu:
```

? Enter ~ Enter the option required and move to the next display.

or **Enter** ~ Return to the Installer Menu.

If "Program" selected the display will show:
eg.

```
Batt Test Frequency -  Disabled
*-Change, 0-Skip
```

0 ~ Skip to the next Battery test display.

or ***** ~ Scroll through Battery test frequency options.

and/or **Enter** ~ Save the displayed setting and move to the next Battery test display.

Battery test start time display will show:
eg.

```
Start Battery Test  00:00
Hours:
```

??Enter ~ Enter and display the hours and move to the minutes display.

or **Enter** ~ Save the displayed setting and move to the minutes display.

Programming is the same for hours and minutes.

Battery test period display will show:
eg.

```
Run Battery Test For  000
Minutes:
```

??Enter ~ Enter and display the battery test period in minutes.

and/or **Enter** ~ Save the displayed setting and return to the Installer Menu.

MANUAL BATTERY TEST

Allows the Battery Test to be started manually by the Installer.
Does not affect the auto battery testing.

If "Test" selected the display will show status of manual battery test:
eg.

```
No DGP Battery Testing In Progress
ENTER
```

Enter ~ Move to the next manual Battery test display.

BATTERY TEST REPORT

Displays the results of previous manual battery testing.

The display will show the result of previous manual battery test:
eg.

```
All DGP Batterys Tested OK
ENTER
```

and/or **Enter** ~ Move to the next manual Battery test display.

SELECT DGP NO. FOR BATTERY TEST

This record the DGP Number of the unit to be tested.

DGP 1-15 = DGP 1-15
Challenger Panel = DGP 16

Only 1 unit can be selected at a time.

The display will show:
eg.

```
Manual Battery Test For DGP # 1-16
0-Skip, DGP:
```

0 ~ Skip to the Battery test period display.

or **?Enter** ~ Enter the DGP number of the unit to test and move to the Battery test period display.

or **Enter** ~ Move to the Battery test period display.

MANUAL BATTERY TEST PERIOD

Records the period, in minutes, that the manual battery test will run for.

Battery test period display will show:
eg.

```
Run Battery Test For  000
Minutes:
```

?Enter ~ Enter and display the battery test period in minutes.

and/or **Enter** ~ Save the displayed setting and return to the Installer Menu.

CUSTOM TEXT 32

CUSTOM TEXT

Displays the current time and date*, or records a 32 character word of customised text which will be displayed on the LCD Arming Station/s in place of the normal Alarms display. Words are considered any configuration of 16 characters. They can include numbers, spaces or punctuation.

Use the text option on the keypad to enter a word or words up to 32 characters. Keys 1 to 9 have alphabetical characters printed above them. To enter a letter, press the key the number of times relative to the position of the letter. Both upper and lower case letters are available as well as numerical values and spaces. Refer to Figure 2.

Note: When the "*" key is used, only letters preceding the cursor will be saved. If you wish to save an existing word, you must key it again or, using Enter, move the cursor to the end of the word.

* Version 883 and above. Enter a full stop and a space ". " to display the current time and date (no other characters are permitted).

The display will show the current text word programmed (if any):
eg.

```
Tecom Factory, ( * ) - End
Tecom Factory
```

? Enter ~ Enter each letter (ENTER moves the cursor to the next position - ensure that it is pressed after entering the last character so that the cursor does not remain on a letter).

and ***** ~ To indicate end of the word. Cursor returns to first letter.

and/or ***** ~ Save displayed text and return to Installer Menu.

MAINTENANCE 33

MAINTENANCE DATE

Records the date on which the next routine service call is due.

The display will show the existing date for next routine service call:
eg.

```
Service Required At 0/0/0
Enter Day:
```

? Enter ~ Enter the day for next service.

or **Enter** ~ Save the displayed setting & move to month display.

Programming for Day/Month/Year is the same.

MAINTENANCE MESSAGE

Records a 32 character word of customised text which will be displayed on the LCD Arming Station/s on the date specified as the Maintenance date.

The display will show the current text word programmed (if any):
eg.

```
Routine Service Due, ( * ) - End
Routine Service Due
```

Text is programmed in the same manner as described in "Custom Text" above.

This page intentionally left blank.

PROGRAM SUMMARY EVENT FLAGS 34

EVENT FLAGS

There are up to 11 Summary Event Flags that can be assigned to system functions and system alarm/fault conditions.

These event flags are activated when any of the conditions specified, exist in the system.

Default setting is "No event"

The system alarm/fault event flags will be latching if "Latching System Alarms" is set to YES in Installer Menu Option 7 - System Options

Note: Take care not to assign Event flag numbers which are pre defined (Event Flags 1 to 16) or Event Flag numbers which have been assigned by the Installer in the Input Database, Area Database, RAS Database, or Shunt Timers.

For list of pre-defined event flags - *Refer to*: Table 6 - Pre-set Event Flags.

PROGRAMMING

The programming is the same for all the output event flags.

The display will show the existing setting: *eg.*

```
Mains Fail Event Flag ??
Event Flag:
```

? Enter ~ Enter and display a new output number.

and/or **Enter** ~ Save the displayed output number and move to the next area database display.

MAINS FAIL EVENT FLAG

This event flag is activated when a Mains Fail condition is detected on the Challenger Panel or a DGP.

Example of display:

```
Mains Fail Event Flag ??
Event Flag:
```

LOW BATTERY EVENT FLAG

This event flag is activated when a Low Battery condition is detected on the Challenger Panel or a DGP.

```
Low Battery Event Flag ??
Event Flag:
```

FUSE FAIL EVENT FLAG

This event flag is activated when a Fuse Fail condition is detected on the Challenger Panel or a DGP.

```
Fuse Fail Event Flag ??
Event Flag:
```

TAMPER EVENT FLAG

This event flag is activated when a Panel Tamper condition is detected on the Challenger Panel or a DGP.

```
Tamper Event Flag ??
Event Flag:
```

SIREN FAIL EVENT FLAG

This event flag is activated when a Siren Fail condition is detected on the Challenger Panel or a DGP.

```
Siren Fail Event Flag ??
Event Flag:
```

DGP ISOLATE EVENT FLAG

This event flag is activated when a DGP has been isolated via the User Menu Option 16 - Isolate/Deisolate RAS/ DGP.

Example of display:

DGP Isolate Event Flag ??
Event Flag:

DGP OFFLINE EVENT FLAG

This event flag is activated when a DGP which is programmed to be polled, is not replying to polling.

DGP Offline Event Flag ??
Event Flag:

RAS OFFLINE EVENT FLAG

This event flag is activated when a Remote Arming Station which is programmed to be polled, is not replying to polling.

RAS Offline Event Flag ??
Event Flag:

DURESS EVENT FLAG

This event flag is activated when a Keyboard Duress Alarm occurs.

Duress Event Flag ??
Event Flag:

FILM OUT EVENT FLAG

This event flag is activated when the film count for a camera exceeds the programmed "Film Out" level.
See "Film Out" in Installer Menu Option 7 - System Options.

Film Out Event Flag ??
Event Flag:

REPORT FAIL EVENT FLAG

This event flag is activated when the Challenger Panel fails to report to the remote monitoring company.

Report Fail Event Flag ??
Event Flag:

TESTMODE EVENT FLAG

This event flag is activated when the Challenger Panel is in Test mode.

Testmode Event Flag ??
Event Flag:

ALL SECURED EVENT FLAG

This event flag is activated when no areas (from "Areas to report Open/Close") are in access, there are no alarm conditions and no entry/exit timers are running.

All Secured Event Flag ??
Event Flag:

CONSOLE TRIGGER EVENT FLAG

When the event flag specified here is activated, the console warning beepers are activated.
The event flag also has to be assigned to the event/s that you want the console warning to sound on.

Console Trigger Event Flag ??
Event Flag:

PROGRAM MACRO LOGIC 35

This function is used to activate an Event Flag or an Input under specific logic conditions.
Up to four Relays or Event Flags can be included in the logic equation. Each Relay or Event Flag in the logic equation can be programmed as an AND or OR function and can also be programmed to invert the logic.
Programming options are provided so that the Event Flag or Input will pulse, time, on delay, off delay or latch when activated.

CAUTION!
It is very important to plan out a Macro Logic program carefully on paper, noting all details, and the origin of every input, before attempting to program.

MACRO LOGIC PROGRAM NUMBER

Records the number of the Macro logic program.
There are 24 programs available.

The display will show:

```
Macro Logic
No:
```

? Enter ~ Enter the program number and move to the next display.

or **Enter** ~ Return to the Installer menu.

FUNCTION

Selects the function of the Event Flag or Input when activated.

The display will show the current output function selected:
eg.

```
M1  Disabled
*-Chg, 0-Exit
```

***** ~ Enter and display a new function.

or **0** ~ Return to menu.

and/or **Enter** ~ Save the displayed input and move to the next display.

Disabled	Macro logic program disabled.
Non Timed	Follows the result of the logic equation only.
On Pulse	Activates for the programmed time or the active period of the logic result, whichever is the SHORTEST.
On Timed	Activates for the programmed time regardless.
On Delay	Activates **after** the programmed time period unless logic result is no longer active.
Off Delay	Follows the result of the logic equation, but **remains active** for the time programmed after the logic result is no longer active.
Latched	Activates on any of the first three inputs in the logic equation and is only reset by the fourth input. (AND / OR function not used)

TIME

Records a time period which is used when any of the timed functions are selected.

A value of 2 or greater should be used.
When programming 1 to 4 minute periods, program in seconds. i.e. 60, 120, 180 or 240 seconds.

The display will show the current time programmed
eg.

```
M 1 Times for 0 Seconds
Time:
```

? Enter ~ Enter and display a new time.

and/or **Enter** ~ Save the displayed time and move to the next display.

EVENT FLAG OR INPUT TO BE ACTIVATED

Enables the Event Flag Number or Input Number to be specified.
The programmed Event Flag or Input will be activated when the result of the logic equation is active and any timing conditions are met.

The display will show the current Event Flag or Input to be activated.
eg.

```
M 1 Activates Event Flag 0
*-Chg, No:
```

? Enter ~ Enter and display a new Event Flag Number or Input Number.

***** ~ Select "Event Flag" or "Input".

and/or **Enter** ~ Save the displayed details and move to the next display.

LOGIC EQUATION

Enables programming of up to four logic inputs, which can be Event Flag Numbers or Relay Numbers.
The logic connecting the four inputs can be programmed for AND or OR functions.
A NAND or NOR function can be achieved by inverting the logic of the particular input.

When all conditions of the logic equation are met, the result is active and the Event Flag or Input programmed in the previous step will be activated. (Depending on any timing function programmed)

Note that any inputs not used MUST be left as an OR function.

The display will show the current logic equation.
eg.

```
M 1 = E0 Or E0 Or E0 Or E0
*-Chg, Input 1:
```

? Enter ~ Enter and display a new Event Flag Number or Relay Number when prompted for "Input".

Entering the same number a second time will invert (NOT) the logic of that particular input. This is indicated by an "!" appearing before the input number.

***** ~ Selects between Event Flag (E) and Relay (R) for "Input" and between And and Or for "Logic".

and/or **Enter** ~ Save the displayed details and return to the original Macro Logic display.

PROGRAM MACRO LOGIC

Example:

Prevent door 1 from being unlocked via card reader while other doors (doors 2 or 3) are opened. (e.g. Airlock doors)

System configuration:

Contacts on doors 2 & 3 are wired to challenger inputs - Inputs 1 & 2.

Inputs 1 & 2 are programmed as Type 20 - Input to Event Flag 24Hr.,
and Event Flag 17 is programmed as the "Selected Event Flag" in both inputs.

The reader at door 1 activates Event Flag 18 to unlock the door when a valid card is presented.

The relay which activates the lock is relay 19 and is mapped to Event Flag 19.

Program:

The Macro Logic program can be used to ensure that Event Flag 19 does NOT activate to unlock the door unless the other two doors are closed.

The logic equation below states that Event Flag 19 will only activate to unlock Door 1 if:

1) Event Flag 17 is INACTIVE - specified by the "i" before the Event number. (Both Doors 2 & 3 are NOT open)
AND 2) Event Flag 18 is ACTIVE (Door Event Flag activated by valid card at reader)

Macro Logic Program No: __1__

Function: (One only)
Disable ..... NO
Non-Timed ..... **YES**
On Pulse ..... NO
On Timed ..... NO
On Delay ..... NO
Off Delay ..... NO
Latching ..... NO

Time ..... _____ Seconds / Minutes *(0)*

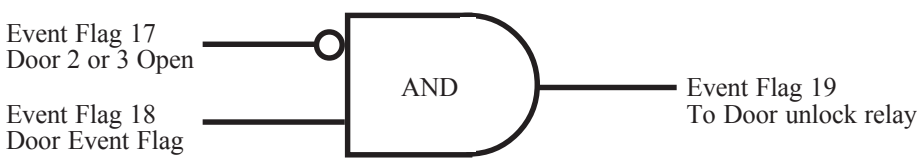
Activate:
Event Flag Number ... __19____
OR
Input Number ..... _____

Logic Equation:

Input 1	**Logic 1**	**Input 2**	**Logic 2**	**Input 3**	**Logic 3**	**Input 4**
RLY/**EVENT**		RLY/**EVENT**		RLY/EVENT		RLY/EVENT
*_**!** No._**E17**_	**AND**	*__ No._**E18**_	AND / OR	*__ No._____	AND / OR	*__ No.____

* Enter "**!**" before input number if input is inverted logic.

i.e.



RADIO COMMUNICATIONS 36

This function is used to to record the communication parameters when the system is reporting to the remote monitoring company using the Radio Interface.
This option is only available in Version 8.16 or later.

MENU OPTIONS

Allows selection of the Programming function or the Radio Status function.

The display will show :
eg.

```
Radio Comms:  1-Program, 2-Status
0 - Skip,  Menu:
```

? Enter ~ Enter the number of the option required and move to the next display.

or **Enter** ~ Return to the Installer menu.

ENABLE RADIO COMMUNICATIONS

YES - Reporting to the remote monitoring company via the Radio Interface is enabled.

NO - The reporting format is determined by the programming in Installer Menu Option 9: - Communication Options.

If "Program" is selected the display will show :

```
NO - Enable Radio
* - Change  0 - Skip
```

***** ~ Change NO to YES, or YES to NO and display the new setting.

or **Enter** ~ Return to the previous display.

RADIO ID

Records the ID number which identifies the Radio Interface to the Remote Monitoring Company.
The ID number to be entered here will be supplied by the Remote Monitoring Company.

```
Radio ID - 0000
ID:
```

? Enter ~ Enter & display a new ID number.

or **Enter** ~ Save the displayed ID and move to the next option.

SESSION ID

Records an ID which identifies the Remote Monitoring Receiver. This ID usually remains at the default setting of "AK".

```
Session ID - AK,  ( * ) - End
AK
```

? Enter ~ Enter & display a new ID.

or **Enter** ~ Save the displayed ID and move to the next option.

ACCOUNT NUMBER/S

The unique number/s which identify your system to the monitoring company. The number/s will be provided by that monitoring company.

Refer to Installer Menu Option 9: - Communication Options (DTMF Dialler Formats) for details on how the Account number/s are programmed.

The display will show the existing system account number :
eg.

```
System Account - 0000
Account:
```

? Enter ~ Enter and display a new account number.

or **Enter** ~ Save the displayed account number and move to the display for the area account numbers.

The display will show the existing system account number for area 1:
eg.

```
"*"-Next, Area 1 Account - 1234
Account:
```

***** ~ Scroll through the areas 1-16.

or **? Enter** ~ Enter and display a new circuit number.

or **Enter** ~ Save the displayed circuit number and move to the display for the next area.

Note: The programming for each area is the same.

BACKUP DIALLER TIME

Records the period in minutes before the backup dialler will be activated in the event of a radio communication failure.

The backup dialler format and account number/s are programmed in Installer Menu Option 9: - Communication Options.

```
Use Backup Dialler After: 0
Minutes:
```

? Enter ~ Enter & display a new backup dialler time.

or **Enter** ~ Save the displayed time and move to the next option.

RADIO STATUS

Allows the status of the Radio Communication System to be displayed.

STATUS MESSAGES:

RPM OK	The Radio Communication network is functioning correctly.
RPM Not Connected	The Radio Packet Modem is not connected to The Challenger Panel.
No Response From Network	RPM connected but no response from network.
Host Down	The Network Receiver at the remote monitoring station is out of service.
Not Registered	The RPM is not registered on the network.

If "Status" is selected the display will show :

```
Radio Status - RPM OK
* - Update,  0 - Exit
```

* ~ Update the Status display.

or **0** ~ Exit the Status display.

RADIO COMMUNICATIONS

(*Refer to:* Installer menu option 36)

(Default)

Enable Radio: ..... YES/NO *(No)*

Radio ID: ..... _____

Session ID: ..... _____ *(AK)*

Account (Cct) Number/s: *Area* *Account No.* *(4 Digits)*

System ..... _____
1 ..... _____
2 ..... _____
3 ..... _____
4 ..... _____
5 ..... _____
6 ..... _____
7 ..... _____
8 ..... _____
9 ..... _____
10 ..... _____
11 ..... _____
12 ..... _____
13 ..... _____
14 ..... _____
15 ..... _____
16 ..... _____

Use Backup Dialler After: ..... *Minutes* _____ *(0)*

PANEL - LINK 37

Panel Link arranges and connects a series of Challenger Panels into a complete system. The most obvious difference is the numbering system and the increase in the number of inputs and outputs. Up to 16 panels can be connected using Panel Link, with PC or printer interface connected to one or all of the panels. Panel Link programming is accessed from menu option 37 of the installer menu (19).

This option is only available in Version 8 or later.

MENU OPTIONS

Installer Menu option 37 allows selection of the Panel Link programming functions.

The numbers represent each linked panel in the system. Panel 0, the Master Panel must be linked.

The Master Panel broadcasts time to the linked panels on a regular basis and therefore must be able to talk to all linked panels.

The display will show :
eg.

```
0,1,2,3,4,5,
Panel Linked:-
```

? Enter ~ Enter the number of the panel to be linked.

or **Enter** ~ Return to the Installer menu.

SENDING PRINTER EVENTS TO THE MASTER PANEL

Yes - All printer events sent to master panel.
No- All printer events printed locally via the TS0862 fitted onto the TS0890 Panel Link board.

The master printer must be connected to the panel addressed as zero. All events, from all panels, can be sent to this printer.

```
NO - Printer Events to Master
* - Change  0 - Skip
```

***** ~ Change NO to YES, or YES to NO and display the new setting.

0 ~ Return to installer menu.

or **Enter** ~ To next menu.

LOCAL COMPUTER PORTS

Yes- Computer events come via TS0892 fitted onto the TS0890 Panel Link board. Cant have local printer.
No- Computer events come from Panel Link LAN. Can have local printer.

```
No - Use Port B for Comp
* - Change  0 - Skip
```

? Enter ~ Change NO to YES, or YES to NO and display the new setting.

0 ~ Return to installer menu.

or **Enter** ~ To next menu.

COMMUNICATIONS PRIORITY

Order of panel redundancy should a panel fail, messages (alarms)will be routed to the next priority panel to be sent to the monitoring station. Priority 00 is the highest priority. Priority 15 is the lowest. The panel through which these events will be sent is selected from this option.

```
Comms Port Priority - 00, Panel - 0
* - Next, Pri:_
```

***** ~ Scroll through panels.

? Enter ~ Priority Number.
followed by
? Enter ~ Panel Number.

or **Enter** ~ To next menu.

For example;

- Panel 0 is priority 00, Panel 1 is priority 02, Panel 2 is priority 03.
- All messages to the monitoring station will go out through Panel 0.
- If Panel 0 should fail then Panel 1 will send messages for the entire system to the monitoring station.
- If Panel 0 and 1 should fail then Panel 2 will send messages for the entire system to the monitoring station, and so on.

COMMON AREA

Only one area can be selected as common per Challenger Panel.

0 = No common area.

Common Area - 0
Area:_

? Enter ~ Type number of common area, display will reflect change.

or **Enter** ~ To next menu.

LINKED AREAS

Areas to be linked to create a common area. (Maximum of 16 linked areas).

Where the display shows : * - Nxt, 0 - Areas:_
The 0 will reflect the Challenger number, 0 to 15.

Press * -Select next Challenger to choose area from,
Number -Select the areas to link.

No Link Area for this Challenger
* - Nxt, 0 - Areas:_

***** ~ Scroll through Challengers.

or **Number** ~ Type number of area directly. Display will reflect change.

Enter ~ To next menu.

EVENT MAPPER NUMBER

Event mapping programs event flags on the current/local Challenger to be tripped when an area associated with another Challenger is accessed, in alarm or secured. Mapping a remote condition to a local event.

For example;

- Enter a number for the event
- Select the Challenger ID associated with the required area
- Select the type of state the area must be in to trigger the local event flag - 0 = None
  1 = Access
  2 = Secure
  3 = Alarm
- Select the area (areas are selected using standard area numbering 1 to 16)
- Select the local event flag that will be activated when the area is in the selected state

Event Mapper
No:_

? Enter ~ Enter number of event.

or **Enter** ~ To next menu.

PROGRAMMING LINKED PANELS 38

PROGRAMMING PANEL-LINK

Selecting the Panel which will be programmed as part of the Panel Link system.

```
Program Panel Link
Panel: _
```

? Enter ~ Type the number of the panel to be programmed.

or **Enter** ~ Return to Installer menu.

INSTALLER MENU

```
Install Menu
3/0 - Ex, Menu: _
```

? Enter ~ Type the number of the menu.

or **Enter** ~ To next menu.

INPUT DATABASE

```
1 - Input Database
3/0 - Ex, Menu: _
```

? Enter ~ Type the number of the menu.

or **Enter** ~ To next menu.

See Input Database page 1.

AREA DATABASE

```
2 - Area Database
3/0 - Ex, Menu: _
```

? Enter ~ Type the number of the menu.

or **Enter** ~ To next menu.

See Area Database page 7.

REMOTE ARMING STATION DATABASE

```
3 - RAS Database
3/0 - Ex, Menu: _
```

? Enter ~ Type the number of the menu.

or **Enter** ~ To next menu.

See Arming Stations page 11.

DGP DATABASE

```
4 - DGP Database
3/0 - Ex, Menu: _
```

? Enter ~ Type the number of the menu.

or **Enter** ~ To next menu.

See Data Panels page 17.

ALARM GROUPS

When assigning alarm groups to users the alarm group numbers are universal to all Challengers. Therefore it should be noted that the contents of alarm groups, although they may have the same ID, will vary from panel to panel.

```
5 - Alarm Groups
3/0 - Ex, Menu: _
```

? Enter ~ Type the number of the menu.

or **Enter** ~ To next menu.

See Alarm Groups page 19.

TIMERS

```
6 - Timers
3/0 - Ex, Menu: _
```

? Enter ~ Type the number of the menu.

or **Enter** ~ To next menu.

See Timers page 27.

SYSTEM OPTIONS

```
7 - System Options
3/0 - Ex, Menu: _
```

? Enter ~ Type the number of the menu.

or **Enter** ~ To next menu.

See System Options page 31.

AUTO RESET

```
8 - Auto Reset
3/0 - Ex, Menu: _
```

? Enter ~ Type the number of the menu.

or **Enter** ~ To next menu.

See Auto Reset page 39.

COMMUNICATION OPTIONS

```
9 - Communications
3/0 - Ex, Menu: _
```

? Enter ~ Type the number of the menu.

or **Enter** ~ To next menu.

See Communication Options page 41.

TEXT WORDS

```
10 - Text Words
3/0 - Ex, Menu: _
```

? Enter ~ Type the number of the menu.

or **Enter** ~ To next menu.

See Text Words page 51.

VERSION NUMBER

```
11 - Version
3/0 - Ex, Menu: _
```

? Enter ~ Type the number of the menu.

or **Enter** ~ To next menu.

See Version Number page 53.

LAMP TESTING

```
12 - Lamp Test
3/0 - Ex, Menu: _
```

? Enter ~ Type the number of the menu.

or **Enter** ~ To next menu.

See Lamp Testing page 55.

TIME ZONES

```
13 - Time Zones
3/0 - Ex, Menu: _
```

? Enter ~ Type the number of the menu.

or **Enter** ~ To next menu.

See Time Zones page 57.

DEFAULTS

```
14 - Defaults
3/0 - Ex, Menu: _
```

? Enter ~ Type the number of the menu.

or **Enter** ~ To next menu.

See Reset Defaults page 59.

USER CATEGORY

```
15 - User Category
3/0 - Ex, Menu: _
```

? Enter ~ Type the number of the menu.

or **Enter** ~ To next menu.

See User Category Data page 61.

MAP RELAYS

```
16 - Map Relays
3/0 - Ex, Menu: _
```

? Enter ~ Type the number of the menu.

or **Enter** ~ To next menu.

See Relay Mapping page 67.

ARM/DISARM TIMERS

17 - Arm/Disarm via Tz
3/0 - Ex, Menu: _

? Enter ~ Type the number of the menu.

or **Enter** ~ To next menu.

See Arm/Disarm Timers page 69.

AREAS ASSIGNED TO VAULTS

18 - Vaults
3/0 - Ex, Menu: _

? Enter ~ Type the number of the menu.

or **Enter** ~ To next menu.

See Areas Assigned to Vaults page 71.

AREA LINKING

19 - Area Linking
3/0 - Ex, Menu: _

? Enter ~ Type the number of the menu.

or **Enter** ~ To next menu.

See Area Linking page 73.

SITE CODE

20 - Site No.
3/0 - Ex, Menu: _

? Enter ~ Type the number of the menu.

or **Enter** ~ To next menu.

See Site Code page 75.

INPUT SHUNTS

21 - Input Shunts
3/0 - Ex, Menu: _

? Enter ~ Type the number of the menu.

or **Enter** ~ To next menu.

See Input Shunts page 77.

TIME ZONE TO F OLLOW RELAYS

22 - Tz to Follow Relays
3/0 - Ex, Menu: _

? Enter ~ Type the number of the menu.

or **Enter** ~ To next menu.

See Input Shunts page 77.

POLL ERRORS

```
23 - Poll Errors
3/0 - Ex, Menu: _
```

? Enter ~ Type the number of the menu.

or **Enter** ~ To next menu.

See Poll Errors page 83.

DOWNLOAD

```
24 - Download
3/0 - Ex, Menu: _
```

? Enter ~ Type the number of the menu.

or **Enter** ~ To next menu.

See Download page 85.

DISPLAY CARD

```
25 - Disp Card
3/0 - Ex, Menu: _
```

? Enter ~ Type the number of the menu.

or **Enter** ~ To next menu.

See Display Card page 87.

EDIT

```
26 - Edit
3/0 - Ex, Menu: _
```

? Enter ~ Type the number of the menu.

or **Enter** ~ To next menu.

See Edit page 87.

TECOM ADDRESS MAPPING

```
27 - Tecom Address Mapping
3/0 - Ex, Menu: _
```

? Enter ~ Type the number of the menu.

or **Enter** ~ To next menu.

See Tecom Address Mapping page 89.

REMOTE CONTROLLERS

```
28 - Remote Controllers
3/0 - Ex, Menu: _
```

? Enter ~ Type the number of the menu.

or **Enter** ~ To next menu.

SECURITY PASSWORD

29 - Security Password
3/0 - Ex, Menu: _

? Enter ~ Type the number of the menu.

or **Enter** ~ To next menu.

See Security Password page 91.

PRINTER

30 - Printer
3/0 - Ex, Menu: _

? Enter ~ Type the number of the menu.

or **Enter** ~ To next menu.

See Printer page 93.

BATTERY TESTING

31 - Battery Testing
3/0 - Ex, Menu: _

? Enter ~ Type the number of the menu.

or **Enter** ~ To next menu.

See Battery Test page 95.

CUSTOM MESSAGE

32 - Custom Message
3/0 - Ex, Menu: _

? Enter ~ Type the number of the menu.

or **Enter** ~ To next menu.

See Custom Text page 97.

MAINTENANCE

33 - Program Next Service
3/0 - Ex, Menu: _

? Enter ~ Type the number of the menu.

or **Enter** ~ To next menu.

See Maintenance page 97.

PROGRAM SUMMARY EVENT FLAGS

34 - Program Summary Event Flags
3/0 - Ex, Menu: _

? Enter ~ Type the number of the menu.

or **Enter** ~ To next menu.

See Program Summary Event Flags page 99.

PROGRAM MACRO LOGIC

```
35 - Program Macro Logic
3/0 - Ex, Menu: _
```

? Enter ~ Type the number of the menu.

or **Enter** ~ To next menu.

See Program Macro Logic page 101.

RESERVED FOR RADIO COMMUNICATIONS - only with MRF chip.

```
36 - Reserved
3/0 - Ex, Menu: _
```

? Enter ~ Type the number of the menu.

or **Enter** ~ To next menu.

See Radio Communications page 105.

APPENDIX I

V8 PROGRAMMING GUIDE

TABLES

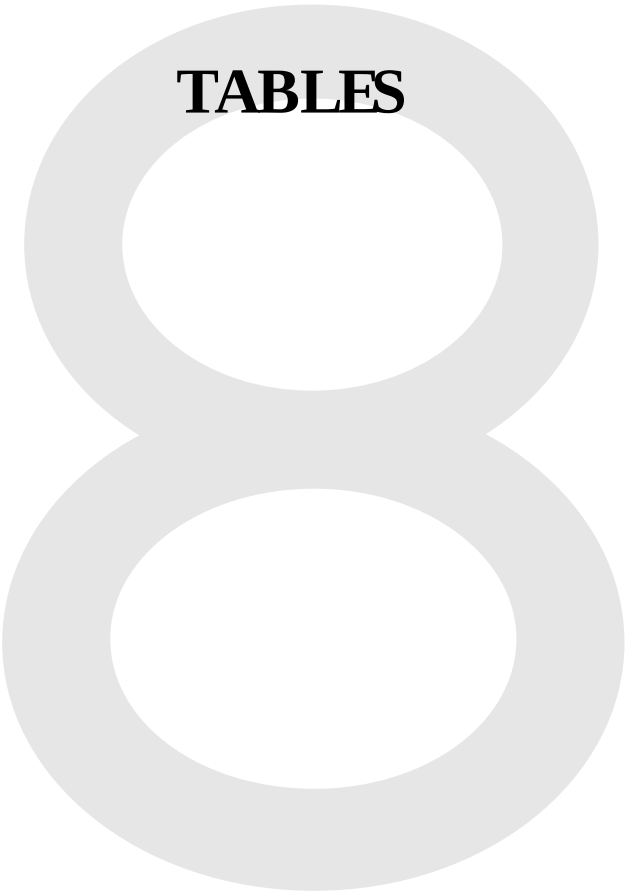


TABLE 1 : INPUT TYPES

The input type programmed in the input database determines exactly how the input will function in given circumstances.

Notes:

1. In this table, Access and Secure apply only to inputs with areas assigned to them and are defined as follows:
   Access: An input is in access when any of the areas assigned to it are disarmed.
   Secure: An input is in secure when all the areas assigned to it are armed.

   (Input types 6, 31, 34, 35 DO NOT have areas assigned to them.)

2. Unless otherwise stated, the input function (generate alarm etc.) is activated when the input is UNSEALED.

3. Tamper Alarm
   Unless otherwise stated, a short or open circuit on the input will generate a tamper alarm if the fault monitoring record on Installer menu option 7 - System Options is set at YES. (If set at NO, a short or open circuit will generate an alarm but will not specifically indicate Tamper.)
   Where a tamper alarm is generated, it will activate the secure or 24 hour event flags when the input is secure, and the access or 24 hour event flags when the input is in access.

4. Event Flag Programming:
   Except where otherwise stated, you must program the event flags which will be activated when the input generates an alarm.

   The event flags are recorded in both the input database and in the area database.
   An alarm generated by an input will only activate relevant event flags, and only if valid conditions exist.

   Refer to: Event Flag in Installer menu option 1 & 2 - Input Database and Area Database for detailed information on the conditions applicable to activating each event.

   Example: An alarm generated by an Input Type 1:

   When the input database option Access/Secure Override is set at NO the following event flags will be activated.

   - from input database and if set at YES:
     Access Alarm
     24 Hour Alarm
     Console Warning
     Selected

   - from Area Database and if programmed with a number:
     Access Alarm
     Unsealed
     Local Alarm

   - the camera event flag provided it is both set at YES on the Input Database and programmed with an event flag number on the Area Database.

5. Entry/Exit Times:
   Where entry/exit times are referred to, the time used is the longest entry/exit time programmed for any of the areas assigned to the input.

6. Holdup at night can report only where a Tecom dialler format or a direct line is used.

TABLE 1 : INPUT TYPES

0. ** No Input Type Programmed (Input not connected)

No alarms are generated on this input.

Example: The physical input does not exist.

1. ACCESS ALARM (Day Alarm)

Generates an alarm in access.

Example: Holdup button.

2. SECURE ALARM (Night Alarm)

Generates an alarm in secure.

Example: Internal door, PIR (movement detector).

3. ENTRY EXIT ALARM

Generates an alarm in secure when the entry exit timers for the areas assigned to the input have expired.

Example: Front door.

Note: Program entry/exit time - Installer menu option 2 - Area Database.

4. ENTRY EXIT HANDOVER ALARM

Generates an alarm in secure when the exit timer for the input has expired and the entry timer is not running.

Example: PIR just inside front door.

Note: Program entry/exit time - Installer menu option 2 - Area Database.

5. 24 HOUR ALARM

Generates an alarm in access or secure.

Example: Panel Tampers

6. AREA CONTROL INPUT - Momentary (No event programming required)

When the input toggles between sealed and unsealed, the functions of it's alarm group are performed.

Example: Momentary keyswitch to turn selected areas on/off.

TABLE 1 : INPUT TYPES

7. CAMERA SUSPICION INPUT (No event programming required)

When unsealed, this input activates cameras in the areas which are assigned to the input.

When the input re-seals, the cameras continue to operate for the suspicion time.

Example: Suspicion button.

Note: Program suspicion time - Installer menu option 6 - Program Times.

8. DELAYED ACCESS/HUP AT NIGHT

Generates an alarm in access but will not report it until the delayed alarm timer has expired or a second delayed alarm is activated.

Generates alarm in secure (reports night holdup).

Example: Holdup button on a counter where more than one holdup button is used.

Note: Program Delayed Alarm Time - Installer menu option 6 - Times.

9. RESET DELAYED INPUTS (No event programming required)

- Resets a delayed alarm type input if the input is sealed.
- Resets a delayed alarm type input if the delay timer is still running (and therefore a full alarm has not been activated).
- Stops cameras operating if the input is unsealed, but the delayed time will continue to run.

Example: Reset button for quick cancellation of alarm.

Note: Delayed input types are : 8, 11, 22, 40.

10. NOT USED

11. DELAYED ACCESS ALARM

Generates alarm in access but will not report it until the delayed alarm timer has expired or a second delayed alarm is activated.

Example: Holdup button.

Note: Program Delayed Alarm Time - Installer menu option 6 - Times.

12. COURIER RESTART (No event programming)

Resets entry timers and restarts exit timers for any areas assigned to the input.

Example: Keyswitch inside a door.

13. ENTRY EXIT NO SEAL CHECK

Generates an alarm in secure when entry/exit timers have expired.
Does not need to be sealed when turning the area to secure.

Example: Front door.

Note: Program Entry Exit Time - Installer menu option 2 - Area Database.

14. HANDOVER NO SEAL CHECK

Generates an alarm in secure when exit timer has expired and entry timer not running.
Does not need to be sealed when turning the area to secure.

Example: PIR inside front door.

Note: Program Entry Exit Timer - Installer menu option 2 - Area Database.

15. ACCESS LOCAL/SEC.ALM

- Generates a local alarm in access.

  Automatically activates audible alert on arming stations for areas assigned to the input (regardless of event flag programming).

  The only event flag (as specified on the input database) which is activated is the Selected Event Flag.

  This local alarm can be acknowledged by using "0 Enter" or "code Enter" on the arming station to stop the audible alert and cancel the event.

  If the input remains unsealed, it will re-alarm after the programmed local alarm reminder time.

- Generates an alarm in secure.

Example: Fire doors.

Note: Program the local alarm reminder time - Installer menu option 6 - Times.

16. 24 HOUR LOCAL MAINS FAIL (No event flag programming required)
Not used in standard commercial versions of *The Challenger*.

Generates local alarm.
Activates audible alert.

17. NOT USED

18. 24 HOUR LOCAL COMMS FAIL (No event flag programming required)

Generates local alarm.
Activates audible alert on arming stations for areas assigned to the input.
Activates COMMS LED on all arming stations.

19. COMMS FAIL LED (No event flag programming required)

Activates COMMS LED on all arming stations.

TABLE 1 : INPUT TYPES

20. INPUT TO EVENT FLAG 24HR

When in unsealed, open or short, activates only the Selected Event Flag.

Example: Door bell.

Note: Program selected event flag - Installer menu option 1 - Input Database.

21. ACCESS LOC.CODE/SEC.ALM

- Generates a local alarm in access.

  The only event flag (as specified on the input database) which is activated is the Selected Event Flag.

  This local alarm can be only be acknowledged by entering a user "code Enter" on the arming station to stop the audible alert and cancel the event flag.

  If the input remains unsealed, it will re-alarm after the programmed local alarm reminder time.

- Generates an alarm in secure.

Example: Fire door.

Note: Program the local alarm reminder time - Installer menu option 6 - Times.

22. ACC.DELAY NON/HUP AT NIGHT

- Generates alarm in access but will not report it until the delayed alarm timer has expired or a second delayed alarm is activated.

  If the input seals during the delayed time, it will reset automatically.

- Generates alarm in secure (reports night holdup).

Example: Holdup button.

Note: Program delayed alarm time - Installer menu option 6 - Times.

23. CAMERA 1 COUNT INPUT (No event flag programming required)

Used to increment the film counter for camera 1 by connecting a normally open contact across the input. (See Notes)

24. CAMERA 2 COUNT INPUT (No event flag programming required)

Used to increment the film counter for camera 2 by connecting a normally open contact across the input. (See Notes)

25. CAMERA 3 COUNT INPUT (No event flag programming required)

Used to increment the film counter for camera 3 by connecting a normally open contact across the input. (See Notes)

26. CAMERA 4 COUNT INPUT (No event programming required)

Used to increment the film counter for camera 4 by connecting a normally open contact across the input. (See Notes)

CAMERA COUNT INPUTS

NOTES:

1. Camera Count Inputs must only be connected to the Challenger Panel inputs. (Inputs 1 to 16)
2. The transition from open to short will cause the counter to be incremented by 1.

TABLE 1 : INPUT TYPES

27. INPUT TO ACTIVATE REPORT (No event programming required)

Operates if system using a direct line, Tecom Dialler format or contact ID format. (Not applicable for High Speed Extended).

When the input is unsealed or faulted, it sends advice of its state to the remote monitoring company.
A second advice is sent when the input is restored.

28. NON-LATCH SECURE ALARM

Generates an alarm in secure.
Resets automatically when the input seals.

Example: PIR

29. 24 HOUR NON-LATCH ALARM

Generates an alarm in access or secure.
Resets automatically when the input seals.

30. ACC.NON-LATCH LOC/SEC.ALM

- Generates a local alarm in access.

  The only event (as specified on the input database) which is activated is the Selected Event.

  This local alarm can be only be acknowledged by entering a user "code Enter" on the arming station to stop the audible alert and cancel the event.

  If the input remains unsealed, it will re-alarm after the programmed local alarm reminder time.

  Resets automatically when the input seals.

- Generates an alarm in secure.

31. AREA CONTROL ON/OFF - Latching (No event programming required)

When the input switches from sealed to unsealed, or unsealed to sealed the functions of it's alarm group are performed as follows.
Sealed to Unsealed - Performs OUT functions. System Arms
Unsealed to Sealed - Performs IN functions. System Disarms

Example: Latching keyswitch to turn selected areas on/off.

32. INPUT TO EVENT FLAG IN SECURE

Activates selected event in secure.

33. 24HR ALARM & ISOLATE INPUT

Short - Generates alarm
Unsealed - Isolates
Open - Fault

Example: Designed for shopping centres where only one input is required for each shop and must be individually disabled via a key switch at the shop.

34. AREA DISARM/USER CAT ARM

When the input changes from sealed to unsealed or unsealed to sealed, the functions of it' s alarm group are performed as follows:

Sealed to unsealed - Starts the warning time for the group timer of the group function assigned to the alarm group. When the warning time expires, the system arms.

Unsealed to sealed - Performs OFF functions. System disarms.

Note: Program Group Function to the alarm group assigned to the input - Installer menu option 5 - Alarm Groups. Program Warning Time - Installer menu option 6 - Times.

35. AREA USER CAT ARM ONLY

When the input changes between sealed and unsealed, the functions of it's alarm group are performed as follows:

Sealed to unsealed - Starts the warning time for the group timer of the group function assigned to the alarm group. When the warning time expires, the area(s) arms.

Unsealed to sealed - No function.

Note: Program Group Function to the alarm group assigned to the input - Installer menu option 5 - Alarm Groups. Program Warning Time - Installer menu option 6 - Times.

36. CAMERA 5 COUNT INPUT (No event programming required)

Used to increment the film counter for camera 5 by connecting a normally open contact across the input. (See Notes)

37. CAMERA 6 COUNT INPUT (No event programming required)

Used to increment the film counter for camera 6 by connecting a normally open contact across the input. (See Notes)

38. CAMERA 7 COUNT INPUT (No event programming required)

Used to increment the film counter for camera 7 by connecting a normally open contact across the input. (See Notes)

39. CAMERA 8 COUNT INPUT (No event programming required)

Used to increment the film counter for camera 8 by connecting a normally open contact across the input. (See Notes)

CAMERA COUNT INPUTS

NOTES:

1. Camera Count Inputs must only be connected to the Challenger Panel inputs. (Inputs 1 to 16)
2. The transition from open to short will cause the counter to be incremented by 1.

40. SUSP.DELAY,HUP/HUP AT NIGHT

Faulted - Shorted. Activates cameras in the areas which are assigned to the input. When the input re-seals, the cameras continue to operate for the suspicion time.

Unsealed- Generates an alarm in access but will not report it until the delayed alarm timer has expired or a second delayed alarm is activated.

Open - Fault

- Generates alarm in secure (reports night holdup).

Note: Program Delayed Alarm Time - Installer menu option 6 - Times.

41. ACCESS LOCAL/ENTRY EXIT

- Generates a local alarm in access.

  Automatically activates audible alert on arming stations for areas assigned to the input (regardless of output event flag programming).

  The only event (as specified on the input database) which is activated is the Selected Event.

  This local alarm can be acknowledged by using "0 Enter" or "Code Enter" on the arming station to stop the audible alert and cancel the event.

  If the input remains unsealed, it will re-alarm after the programmed local alarm reminder time.

- Generates an alarm in secure when the entry /exit timers for the areas assigned to the input have expired.

Note: Program Entry/Exit timer - Installer menu option 2 - Area Database.

42. ACCESS LOC.CODE/ENTRY EXIT

- Generates a local alarm in access.

  The only event(as specified on the input database) which is activated is the Selected Event.

  This local alarm can be only be acknowledged by entering a user "Code Enter" on the arming station to stop the audible alert and cancel the event.

  If the input remains unsealed, it will re-alarm after the programmed local alarm reminder time.

- Generates an alarm in secure when the entry /exit timers for the areas assigned to the input have expired.

Note: Program Entry/Exit timer - Installer menu option 2 - Area Database.

43. INPUT TO EVENT FLAG IN ACCESS

When unsealed, open or short and in access the input will activate only the selected event.

Note: Program selected event - Installer menu option 1 - Input Database.

44. (ACC.LOC/SEC.ALM) DIS CLN.TRD

- Generates a Local alarm in access

- Generates an Alarm in secure but the input can be disabled when 2 user categories have been entered (not necessarily in the same area).

45. (EVENT FLAG/SEC.ALM) DIS CLN.TRD

- Activates selected event in access.

- Generates an alarm in secure but the input can be disabled when 2 user categories have been entered (not necessarily in the same area).

46. ACCESS/HUP AT NIGHT

- Generates an alarm in access.
- Generates an alarm in secure (reports night holdup).

47. SUSPICION.HUP/HUP AT NIGHT

- When unsealed and in access this input activates cameras in the areas which are assigned to the input. When the input re-seals, the cameras continue to operate for the suspicion time.
- Generates an alarm in secure (reports night holdup).

48. CAMERA 1 FILM OUT INPUT (No event programming required)

Generates an alarm when camera 1 is out of film.

49. CAMERA 2 FILM OUT INPUT (No event programming required)

Generates an alarm when camera 2 is out of film.

50. CAMERA 3 FILM OUT INPUT (No event programming required)

Generates an alarm when camera 3 is out of film.

51. CAMERA 4 FILM OUT INPUT (No event programming required)

Generates an alarm when camera 4 is out of film.

52. CAMERA 5 FILM OUT INPUT (No event programming required)

Generates an alarm when camera 5 is out of film.

53. CAMERA 6 FILM OUT INPUT (No event programming required)

Generates an alarm when camera 6 is out of film.

54. CAMERA 7 FILM OUT INPUT (No event programming required)

Generates an alarm when camera 7 is out of film.

55. CAMERA 8 FILM OUT INPUT (No event programming required)

Generates an alarm when camera 8 is out of film.

56. (ACC.LOC CODE/SEC.ALM) DIS BY TZ 41

- Generates a local alarm in access.
  The local alarm can only be acknowledged by entering a user "Code Enter" on the arming station to stop the audible alert and cancel the event.

- Generates an alarm in secure only if timezone 41 is not valid.
  If timezone 41 is valid, the input is disabled.

57. INPUT TO REPORT AND SCREEN

Activates an event which is advised to the monitoring company and displayed on a screen only.

58. INPUT TO SCREEN TEXT

Activates an event which is displayed on a screen.

59. (24HR ALARM) DIS BY TZ 41

- Generates an alarm in access or secure only if timezone 41 is not valid.
  If timezone 41 is valid, the input is disabled.

TABLE 2 : WORD LIBRARY

The word library is a list of words held in *The Challenger* memory. These words are used in *The Challenger* programming to describe inputs etc. which then form part of the variable text displayed on *The Challenger* displays.

The words are programmed using the reference number.

You can add to the word library for a system by programming additional words via Installers menu option 10 - Text Words.

001	Above
002	Access
003	Accountant
264	Accounts
417	Accounts Manager
004	Across
404	Admin
418	Administration
272	Air Conditioning
005	Alarm
006	All
362	All Area User Code
520	All ATMs
419	Amenities
295	Analog
420	Ancillary Staff
514	And
007	APC
008	Area
332	Area One
333	Area Two
334	Area Three
335	Area Four
336	Area Five
337	Area Six
338	Area Seven
339	Area Eight
340	Area Nine
341	Area Ten
342	Area Eleven
343	Area Twelve
344	Area Thirteen
345	Area Fourteen
346	Area Fifteen
347	Area Sixteen
410	Armoured Car
009	Arming
421	Art
265	Assistant
367	Assistant Manager
369	Assistant Manager Day
422	Assistant Principal
423	Assoc Administrator
010	At
011	ATM
308	Atrium
012	Audio
013	Auto
350	Auto Arm
351	Auto Disarm
014	Automatic
381	Auto Reset
015	Aux
424	AV Production
016	Back
349	Baker
376	Baker 1
377	Baker 2
017	Bar
018	Basement
019	Bathroom
273	Battery
020	Bay
021	Beam
022	Bedroom
023	Bell
024	Board
025	Boardroom
026	Body
027	Boiler
028	Bottom
326	Box
539	BRD
267	BRG
029	Building
425	Bulk Store
030	Business
031	Button
032	Cabinet
033	Cage
034	Call
293	Calibration
035	Camera
036	Canteen
037	Car
038	Caroline
039	Cash
408	Cash Office
040	CCTV
041	Ceiling
042	Cellar
043	Central
426	Central Bulk Store
431	Centre
044	The Challenger
045	Charge
046	Chief
047	Cigarettes
048	City
427	Class Room
352	Cleaner
411	Cleaner Selling
412	Cleaner Front
413	Cleaner Admin
049	Clerk
050	Clip
051	Cold
052	Combination
428	Commerce
053	Commercial
054	Communication
055	Compactor
056	Computer
429	Computer Room
057	Conference
430	Conference Room
302	Console
058	Contact
059	Control
299	Corridor
358	Count
060	Counter
325	Cover
432	Covered Area
061	Covering
522	Curtain
269	Custody
062	Customer
274	Dairy
433	Dark Room
304	Data
063	Delayed
266	Desk
064	Detector
434	Developmental
065	DGP
066	Dining
296	Digital
067	Dispatch
435	District Facility
068	Dock
069	Door
465	Doors
543	Door Keypad
503	Double
275	DOTL
070	Downstairs
071	Driveway
072	Drug
436	Dry Craft
074	DUALTEK
073	Duct
330	Dump
075	Duress

TABLE 2 : WORD LIBRARY

437	Early
076	East
438	Education
518	Egress
077	Electric
078	Electrical
439	Electronics
079	Emergency
297	Engineering
080	End
081	Enquiry
082	Entry
440	Entry/Display Area
083	Equipment
441	Equipment Store
298	Evaluation
084	Exit
085	Exterior
086	External
087	Factory
442	Factory Manager
276	Fail
088	Failure
089	Fashion
090	Fence
091	File
092	Film
093	Fire
443	Fitness Testing
094	Floor
323	FLR
095	Foil
277	Food
278	Forced Door
096	Foyer
097	Freezer
098	Front
379	Front Counter
538	Front Door Keypad Bank 1
542	Front Door Keypad Bank 2
099	Games
283	Gaming
100	Gas
101	Garden
102	Garage
103	Gate
104	General
445	General Circulation
530	General Staff
519	General Staff 1
532	General Staff 2
446	GLA
447	GLA/Stage
105	Glass
328	Goods
448	Graphics
312	Grd/Flr
449	Groundsman Store
106	Ground
303	Group
385	Group 11
386	Group 12
387	Group 13
388	Group 14
389	Group 15
390	Group 16
391	Group 17
392	Group 18
393	Group 19
394	Group 20
395	Group 21
396	Group 22
397	Group 23
398	Group 24
399	Group 25
400	Group 26
401	Group 27
402	Group 28
403	Group 29
450	Guard
279	Gun
315	GYM
107	Hall
444	Hallway
108	Hand
327	Hatch
109	Heat
364	High Level User Master
527	High SSO
110	Holdup
361	Holdup Bar
382	Holdup Button
451	Home Economics
111	In
280	Inertia
281	Inner
112	Input
452	Instrument Strore
113	Interior
114	Internal
524	Isolate
453	Janitor
115	Jewelry
365	Junction
355	Key
353	Keyswitch Isolated
116	Kick bar
348	Kiosk
117	Kitchen
384	Kamahira
118	Landing
282	Lay By
454	Learning
119	Left
120	Lending
121	Level
122	Library
123	Lift
124	Light
125	Liquor
126	Loading
127	Loans
128	Lobby
129	Lock
130	Long Range
375	Loss Prevention
131	Lounge
284	Low
363	Low Level User Master
132	Lower
528	Low SSO
133	Lunch
134	Machine
455	Machinery Strore
135	Magnetic
136	Main
456	Main Admin Office
457	Main Entry
285	Mains
318	Makash
137	Manager
138	Manchester
458	Manual
139	Master
140	Mat
459	Materials Store
329	Meat
523	Mechanic
141	Medical
316	Meeting
142	Mens
460	Metal Workshop
143	Microwave
144	Middle
145	Money
146	Motion
147	Motor
461	Multipurpose Room
462	Music
463	Music Practice
464	MYCP & Interview

TABLE 2 : WORD LIBRARY

313	ND	478	Quiet Learning	209	Siren
148	Near			210	Shutter
268	New			211	Sliding
149	Next			289	Small
150	Next To	178	Rack	489	Small Equip Store
151	Night	179	Radio	490	Small Group
370	Night Manager	180	Raid	212	Smoke
354	Noise Makers Isolated	181	Ramp	213	Sound
152	North	317	RAS	214	South
153	North West	182	Reader	215	South East
154	North East	183	Rear	216	South West
155	Note	184	Receiving	217	Spare
156	Number	407	Receving Dock	491	Special
		378	Receiving Door	414	Special Access 1
		185	Reception	415	Special Access 2
		186	Record	416	Special Access 3
157	Off	187	Reed Switch	492	Special Education Area
158	Office	479	Reference	493	Sports Store
159	Officer	188	Refrigeration	494	Spray
160	On	307	Register	218	Sprinkler
161	Open	189	Remote	219	SRT
466	Orchestral	190	Representative	544	SSO
360	Out	480	Reprographic Production	314	ST
286	Outer	294	Research	220	Staff
162	Over	481	Resource Centre	495	Staff & Amenities
		482	Resource Store	525	Staff Areas 1 to 4
		300	Retrofit	526	Staff Areas 5 to 8
		306	RF	380	Staff Door
163	Panel	191	Right	521	Staff Window Bypass
164	Panic	309	Riser	409	Staff Entry
165	Park	192	Road	496	Staff Lounge
467	Passage	193	Roller Door	497	Staff Room
166	Passive	194	Roof	534	Staff Second Tz
468	Patrol	195	Room	536	Staff Third Tz
531	Patrol 2	263	RSB	221	Stair
533	Patrol 3	196	Rumpus	222	Stairway
167	Penset			223	Station
469	Performing Art Centre			224	Stereo
168	Perimeter			290	Stop
321	Personnel	197	Safe	371	Stock Hand
169	Phone	305	Sales	372	Stock Hand 1
170	PIR	270	Savings	373	Stock Hand 2
322	360 PIR	483	School	374	Stock Hand 3
287	Pit	484	Science	406	Stock Room
288	Plant	198	Screen	225	Store
470	Playroom	199	Secretary	366	Store Manager
357	PNEUMATIC	324	Security	368	Store Manager Day
171	Point	207	Seismic	331	Store Room
172	Pool	200	Selling	226	Storage
356	POPUP	529	Senior Staff	227	Strobe
173	Port	535	Senior Staff Second Tz	359	Strongroom
174	Power	537	Senior Staff Third Tz	228	Strike
471	Pre-School	201	Sensor	498	Student Centre
472	Preparation	485	Servery	499	Student Waiting
473	Principal	202	Service	500	Studies
311	Print	405	Service Bay	501	Studio
474	Printery	486	Service Manager	319	Substation
475	Production	487	Services Room	291	Sump
310	Productivity	203	Shop	229	Supermarket
476	Professional Support	204	Short Tom	230	Supervisor
175	Protection	205	Show	231	Surveillance
477	Public Waiting	206	Side	232	Switch
176	Pull	208	Sign	292	Switchboard
177	Pump	488	Single	233	System

TABLE 2 : WORD LIBRARY

234	Tamper
235	Tape
504	Teacher
505	Teacher Work
502	Tea Room
301	Technical
506	Technician
320	Telecom
236	Teller
507	Temp GLA
508	Temp Typing
237	Temperature
509	Textile Store
044	The Challenger
238	Time
239	To
240	Toilet
241	Tool
242	Top
271	Trading
510	Trades
243	Transmitter
244	Trap
511	Typing GLA
245	Ultrasonic
512	Under
513	Unit
246	Upper
247	Upstairs
248	Valve
249	Vault
540	Vault RAS Bank 1
541	Vault RAS Bank 2
250	Vent
251	Ventilator
252	Video
253	Voltage
383	Volumetric
254	Wall
255	Warehouse
256	West
515	Wet Craft
257	Window
258	Wired Grid
259	Womens
516	Wood Workshop
517	Work Room
260	Workshop
261	Yard
262	Zone

TABLE 3 : TEST TYPES

Test Types are used to identify the automatic testing procedures for each input.

Input testing is done via the *Access Test* and the *Secure Test*. Refer to *The Challenger* User Guide for details of the test procedures.

Each input has a test type allocated to it when details of the input are programmed on Installers menu option 1 - Input Database.

Note: Options recorded here do not affect manual tests on individual inputs.

TYPE:

0 - No testing required:

If an input is programmed with test type zero, it is not included in either the access test or the secure test and will not appear on any of the test reports. The input will not be disabled during the access test.
Examples of inputs with test type 0: Duress button which is active during test mode, siren cover, panel tamper.

1 - Test during access test:

If an input is programmed with test type 1 it will be included in the access test. The input will be disabled during any access test on areas assigned to it.
Example of inputs with test type 1: Holdup button

2 - Test during secure test and when in access:

If an input is programmed with test type 2 it will be included in the secure test. If the input is activated during access mode, it is considered tested and will not be tested again when the secure test is done.
Examples of input with test type 2: PIRs, Doors.

3 - Test during secure test:
If an input is programmed with test type 3 it will be included in the secure test.
Example of an input with test type 3: Any device which needs to be automatically tested.

4 - Set Event Flag 13 during Access test:

An input programmed with test type 4 will be used to activate Event Flag 13 during the access test.
This Test type is intended for testing devices that are activated by Access Alarm Input types. e.g. Holdup buttons.
(The device must already be programmed to be activated by Access Alarm Event Flag 13)

5 - Set Pre-Alarm Event Flag during Access test:

An input programmed with test type 5 will be used to activate the Pre-Alarm Event Flag during the access test in the area/s assigned to the input.
This Test type is used to test devices that are activated during the delayed holdup time. e.g. A discreetly placed LED that indicates to the user that the Holdup button is active.
The Pre-Alarm Event Flag number is programmed in Option 2 - Area Database.

TABLE 4 : ALARM GROUP DEFAULTS

Number	1	2	3	4	5	6	7to 10	11	12	13	14-29
Areas Assigned	-	All	All	1-8	9-16	All	--------	All	All	All	See next pg
Can this Grp be assigned to User's	N	N	N	N	N	N	N	N	N	N	N
Alarm System Control	N	Y	Y	Y	Y	Y	N	Y	Y	Y	Y
Prompt with List of Areas	N	Y	Y	Y	Y	Y	N	Y	Y	Y	N
User Activate Keyboard Duress	N	Y	Y	Y	Y	Y	N	Y	Y	Y	Y
Reset System Alarms	N	Y	Y	Y	Y	Y	N	N	N	N	N
Disable Auto-Deisolate	N	N	N	N	N	N	N	N	N	N	N
Arm and Reset Only	N	N	N	N	N	N	N	N	N	N	N
Disarm Only	N	N	N	N	N	N	N	N	N	N	N
Alarm Reset Only	N	N	N	N	N	N	N	N	N	N	N
Auto Isolate Unsealed Inputs	N	N	N	N	N	N	N	N	N	N	N
Forced Arm When Unsealed Inputs	N	N	N	N	N	N	N	N	N	N	N
Prevent Forced Disarming	N	N	N	N	N	N	N	N	N	N	N
Can User Access via Modem	N	Y	Y	Y	Y	Y	N	Y	N	N	N
User Category 1	N	Y	N	Y	Y	N	N	N	N	N	N
User Category 2	N	Y	N	Y	Y	N	N	N	N	N	N
User Category 3	N	Y	N	Y	Y	N	N	N	N	N	N
User Category 4	N	Y	N	Y	Y	N	N	N	N	N	N
User Category 5	N	Y	N	Y	Y	N	N	N	N	N	N
User Category 6	N	Y	N	Y	Y	N	N	N	N	N	N
User Category 7	N	Y	N	Y	Y	N	N	N	N	N	N
User Category 8 (Counter)	N	Y	N	Y	Y	N	N	N	N	N	N
Prevent Arming if Cat not Timing	N	N	N	N	N	N	N	N	N	N	N
User Menu Options	See next page										
Timezone	-	-	-	-	-	-	-	-	-	-	-
Alternate Alarm Group	1	1	1	1	1	1	1	1	1	1	1

TABLE 4 : ALARM GROUP DEFAULTS

Number	*Name*	*User Menu Options*
1.	No Access	All NO
2.	Master RAS or Door	All YES
3.	Master Code Access	All YES
4.	8 Area Master RAS (1-8)	All YES
5.	8 Area Master RAS (9-16)	All YES
6.	Master User	All YES except 19
7-10	Spare Alarm Group	All NO
11.	High Level Master	All YES except 19
12.	Low Level Master	All NO except 1, 5, 9, 10, 11, 14, 15, 16,
13.	All Area User	All NO except 1, 5, 9, 10, 11,
14-29	Area One to Area Sixteen	All NO except 1, 5, 9, 10, 11,

Note: Alarm Groups 14 to 29 are for individual areas. The areas assigned to the alarm groups are as follows:

Alarm Group 14	Area 1
15	2
16	3
17	4
18	5
19	6
20	7
21	8
22	9
23	10
24	11
25	12
26	13
27	14
28	15
29	16

User Menu Options:

1. Panel Status
2. Inputs Unsealed
3. Inputs in Alarm
4. Inputs Isolated
5. History
6. TestReport
7. TestReport
8. Film Counters
9. Input Text
10. Isolate
11. De-isolate
12. Test Input
13. Start Access Test
14. Program User
15. Time & Date
16. Isolate/Deisolate RAS/DGP
17. Enable/Disable Service Tech
18. Reset Cameras
19. Installer Options
20. Door & Floor Groups
21. Holiday Dates
22. Open Door
23. Unlock, Lock, Disable & Enable
24. PrintHistory

TABLE 5 : NETWORK EVENTS AND COMMANDS

EVENTS

Tecom V1 Dialler format:

The following codes are for messages sent from *Challenger Version 8* to a remote monitoring company when *The Challenger* is using the "Tecom V1" Dialler reporting format into a Tecom **V1** Dialler Master Receiver.

Note: For messages sent from *Challenger Version 8* to a remote monitoring company when *The Challenger* is using the "Tecom V1" Dialler reporting format into a Tecom **V3** Master (TS2000), see pages 23-25.

Description	Event Code	Restoral Code
Input alarm	(001-256)A	(001-256)R
Input faults	(001-256)F	(001-256)f
Secure Alarm (I/P holdup at night)	(001-256)T	(001-256)t
Input Isolate	(001-256)I	(001-256)D
Passcode entered	(001-255)P	
Duress passcode	(001-255)H	(001-255)h
Area secure	(001-016)x	
Area access	(001-016)X	
Out of Hours Access	(385-400)A	(385-400)R
Arming station 1-16 Off-line	(030-045)E	(030-045)e
Arming station 17-64 Off-line	(017-064)N	(017-064)n
Arming station 1-64 De-polled	(065-128)N	(065-128)n
Arming station 1-64 Tamper	(257-320)Y	(257-320)y
Arming station 1-64 Cipher Fail	(321-384)Y	(321-384)y
Arming station 1-64 Keypad Tamper	(385-448)Y	(385-448)y
Arming station 1-64 Duress	(449-512)Y	(449-512)y
Arming station 1-64 Isolated	(257-320)I	(257-320)D
DGP 1-64 Off-line	(047-111)E	(047-111)e
DGP 1-64 De-polled	(129-192)N	(129-192)n
DGP 1-64 Mains Fail	(001-064)W	(001-064)w
DGP 1-64 Low Battery	(065-128)W	(065-128)w
DGP 1-64 Fuse Fail	(129-192)W	(129-192)w
DGP 1-64 Battery Test Fail	(193-256)W	(193-256)w
DGP 1-64 Tamper	(257-320)W	(257-320)w
DGP 1-64 Cipher Fail	(321-384)W	(321-384)w
DGP 1-64 Siren Tamper	(385-448)W	(385-448)w
DGP 1-64 CPU Restart	(449-512)W	(449-512)w
DGP 1-64 Isolated	(321-384)I	(321-384)D
Panel CPU Restart		001e

Description	Event Code
Camera film low	011Q
Camera film out	015Q
Camera faulty	014Q
Camera film out restore	016Q
Deadman's Alarm	081Q
Camera and popup disabled	082Q
Camera and popup enabled	083Q
Courier entered	084Q
Access test started	021Q
Access test over	022Q
Access test incomplete	066Q
Access test completed	035Q
Secure test started	018Q
Secure test over	019Q
Secure test completed	020Q
Secure test incomplete	067Q
Auto Reset	085Q

Description	Event Code
Service in	086Q
Service out	087Q
Periodic test	010Q
Remote Log-in	115Q
Remote Log-out	116Q
Enter Program Mode	117Q
Cancel Code	118Q
Service Requested	119Q
Line Monitor fail	120Q
Line Monitor restore	121Q
Time/Date Changed	122Q
Film Low restore	123Q
Delay Button Active	124Q
Local Alarm Acknowledged	221Q
Remote Monitor Lost	225Q
Remote Monitor Restored	226Q
Remote Monitoring Network Down	227Q

TABLE 5 : NETWORK EVENTS AND COMMANDS

TABLE 5 : NETWORK EVENTS AND COMMANDS

CONTACT-ID EVENTS

The following codes are:
1. For messages sent from *Challenger* to a remote monitoring company when *The Challenger* is using Contact ID reporting formats.
2. Generated by the Tecom TS2000 Network Master when receiving Tecom V1, Tecom V3, or Contact ID Large dialler formats; or Tecom Direct Line - Large format.

Programmable panel input event codes. Selected for each input and programmed on the input database.

Type	*Code*	*Classification*	*Description*	
1	100	Medical Alarm	Personal Emergency	
2	101	Medical Alarm	Personal Emergency	
3	102	Medical Alarm	Fail to check in	
4	110	Fire Alarm	Fire alarm	
5	111	Fire Alarm	Smoke detector	
6	112	Fire Alarm	Combustion	
7	113	Fire Alarm	Water flow	
8	114	Fire Alarm	Heatsensor	
9	115	Fire Alarm	Pull station	
10	116	Fire Alarm	Ductsensor	
11	117	Fire Alarm	Flame sensor	
12	118	Fire Alarm	Near alarm	
13	120	Panic Alarm	Panic	
14	122	Panic Alarm	Silent panic	
15	123	Panic Alarm	Audible panic	
16	130	Burglar Alarm	Burglary	
17	131	Burglar Alarm	Perimeter	
18	132	Burglar Alarm	Interior	
19	133	Burglar Alarm	24 Hour	
20	134	Burglar Alarm	Entry/Exit	
21	135	Burglar Alarm	Day/Night	
22	136	Burglar Alarm	Outdoor	
23	137	Burglar Alarm	Tamper	
24	138	Burglar Alarm	Near alarm	
25	140	General Alarm	General alarm	*(Default)*
26	143	General Alarm	Exp. module fail	
27	144	General Alarm	Sensor tamper	
28	145	General Alarm	Exp. module fail	
29	150	24 Hour Non-Burglary	24 Hr. Non-Burglary	
30	151	24 Hour Non-Burglary	Gas detected	
31	152	24 Hour Non-Burglary	Refrigeration	
32	153	24 Hour Non-Burglary	Heating system	
33	154	24 Hour Non-burglary	Water leakage	
34	155	24 Hour Non-burglary	Foil break	
35	156	24 Hour Non-burglary	Day zone	
36	157	24 Hour Non-Burglary	Low gas level	
37	158	24 Hour Non-Burglary	High temperature	
38	159	24 Hour Non-Burglary	Low temperature	
39	161	24 Hour Non-burglary	Air flow	
40	200	Fire Supervisory	Fire supervisory	
41	201	Fire Supervisory	Low water pressure	
42	203	Fire Supervisory	Gate valve	
43	204	Fire Supervisory	Low water level	
44	205	Fire Supervisory	Pump activation	
45	206	Fire Supervisory	Pump failure	

Non-programmable event codes: (Pre-set events) *(Reported in Decimal)*

402	Area Access/Secure	User ID (1-999) - Group Byte = 01-16
140	General Alarm	Secure Alarm (Holdup at Night) (1-256)
383	System Trouble	Sensor Tamper (1-256)
570	Zone Bypass	Input Isolated (1-256)

All of the above Event Codes report Area Number in decimal using the "Group Byte".

TABLE 5 : NETWORK EVENTS AND COMMANDS

CONTACT-ID SYSTEM EVENTS (CONTACT ID - LARGE)

The following codes are:
1. For messages sent from *Challenger* to a remote monitoring company when *The Challenger* is using "Contact ID - Large" reporting format.
2. Generated by the Tecom TS2000 Network Master when receiving Tecom V1, Tecom V3, or Contact ID - Large dialler formats; or Tecom Direct Line - Large format.

(Reported in Decimal)

Zone	*Code*	*Classification*	*Condition*
001-064	143	General Alarm	RAS Off-line*
001-064	330	System Trouble	RAS De-Polled*
001-064	145	General Alarm	RAS Tamper*
001-064	145	General Alarm	RAS Keypad Tamper
001-016	305	System Trouble	RAS CPU Restart
001-016	303	System Trouble	RAS Cipher Fail
001-016	304	System Trouble	RAS DIP Switch Changed
001-016	570	Bypass	RAS Isolated*
001-064	120	Panic Alarm	Duress Entered at RAS*
065-079	143	General Alarm	DGP Off-line*
065-079	330	System Trouble	DGP De-Polled*
065-080	301	System Trouble	DGP Mains Fail*
065-080	302	System Trouble	DGP Low Battery*
065-080	309	System Trouble	DGP Battery Test Fail*
065-080	300	System Trouble	DGP Fuse Fail*
065-080	145	General Alarm	DGP Tamper*
065-080	320	System Trouble	DGP Siren Tamper*
065-080	305	System Trouble	DGP CPU Restart
065-080	303	System Trouble	DGP Cipher Fail
065-079	304	System Trouble	DGP DIP Switch Changed
065-080	570	Bypass	DGP Isolated*

Note:
Zone 001 - 016 ..... RAS on Challenger LAN.
Zone 017 - 064 ..... RAS/Reader on Door/Lift Controller.
Zone 065 - 079 ..... DGP 1 to 15.
Zone 080 ..... Challenger Panel.

000	602	Test	Periodic Test Call
000	411	Remote	Service Requested
000	351	Communication Trouble	Line Monitor Fail*
000	406	Cancel	Cancel Code
129	150	24 Hour Non-Burglary	Camera Film low*
130	150	24 Hour Non-Burglary	Camera Film out*
131	150	24 Hour Non-Burglary	Courier Entered
133	570	Bypass	Camera & Popup (Bandit) Screen Disabled*
134	150	24 Hour Non Burglary	Access Test Started*
135	150	24 Hour Non-Burglary	Access test Failed
136	150	24 Hour Non-Burglary	Access test Passed
137	150	24 Hour Non-Burglary	Secure test started*
138	150	24 Hour Non-Burglary	Secure test Failed
139	150	24 Hour Non-Burglary	Secure test Passed
140	150	24 Hour Non-Burglary	Delay Button Active
141	150	24 Hour Non-Burglary	Automatic reset
142	150	24 Hour Non-Burglary	Time Changed
143	102	Medical Alarm	Dead Man's Alarm (Guard Failed to Check In)
145	150	24 Hour Non-Burglary	Service In*
146	150	24 Hour Non-Burglary	Enter Program Mode
147	416	Remote	Remote Log-in*
160-175	608	Alarm	Out-Of-Hours Access Alarm*

* *These events have restorals*

TABLE 5 : NETWORK EVENTS AND COMMANDS

CONTACT-ID SYSTEM EVENTS (CONTACT ID - SMALL)

The following codes are:
1. For messages sent from *Challenger* to a remote monitoring company when *The Challenger* is using "Contact ID - Small" reporting format.
2. Generated by the Tecom TS2000 Network Master when receiving Contact ID - Small dialler format or Tecom Direct Line - Small Format.

These System Events are sent if the Challenger IS PROGRAMMED with a separate "System Account Number" to report the system events on.

Zone	*Code*	*Classification*	*Condition*
001	143	General Alarm	RAS Off-line*
002	143	General Alarm	DGP Off-line*
003	305	System Trouble	CPU Restart
004	301	System Trouble	Mains Fail*
005	302	System Trouble	Low Power*
006	145	General Alarm	General Tamper*
007	320	System Trouble	General Siren Tamper*
008	120	Panic	Duress Alarm
009	102	Medical Alarm	Guard Fail to Check In
010	416	Remote	Remote Login
011	150	24 Hour Non-Burglary	Camera Film Out*
012	608	Test	Out of Hours Access
013	411	Remote	Service Requested
014	351	System Trouble	Line Monitor Fail
015	150	24 Hour Non-Burglary	Program Mode Entered

These System Events are sent if the Challenger IS NOT PROGRAMMED with a separate "System Account Number" to report the system events on.

Zone	*Code*	*Classification*	*Condition*
240	143	General Alarm	RAS Off-line*
241	143	General Alarm	DGP Off-line*
242	305	System Trouble	CPU Restart
243	301	System Trouble	Mains Fail*
244	302	System Trouble	Low Power*
245	145	General Alarm	Tamper*
246	320	System Trouble	Siren Tamper*
247	120	Panic	Duress Alarm
248	102	Medical Alarm	Guard Fail to Check In
249	416	Remote	Remote Login
250	150	24 Hour Non-Burglary	Camera Film Out*
251	608	Test	Out of Hours Access
252	411	Remote	Service Requested
253	351	System Trouble	Line Monitor Fail
254	150	24 Hour Non-Burglary	Program Mode Entered

** These events have restorals*

TABLE 5 : NETWORK EVENTS AND COMMANDS

HIGH SPEED EXTENDED

The following are codes for messages sent from *Challenger* to a remote monitoring company when *The Challenger* is reporting using High Speed Extended reporting formats.

DURESS REPORT (9TH CHANNEL = 1) On 1st Account Number

Ademco Channel Number	*Event Reported*
1	Duress
2	Low Battery
3	System Tamper (DGP Tamper & Siren Tamper)
4	CPU Restart (Panel reset)
5	DGP or RAS Off-Line
6	Mains Fail
7	Film Out
8	Remote Login

COMMON OPENING REPORT (9TH CHANNEL = 2) On 1st Account Number

Ademco Channel Number	*User Number*
0	10,16,26,32,42,48,58,64,74,80,90,96
1	1,17,33,49,65,81,97
2	2,18,34,50,66,81,98
3	3,19,35,51,67,83,99
4	4,20,36,52,68,84,100
5	5,21,37,53,69,85
6	6,22,38,54,70,86
7	7,23,39,55,71,87
8	8,24,40,56,72,88
9	9,25,41,57,73,89
B	11,27,43,59,75,91
C	12,28,44,60,76,92
D	13,29,45,61,77,93
E	14,30,46,62,78,94
F	15,31,47,63,79,95

ZONE BYPASS REPORT (9TH CHANNEL = 3) On 1st Account Number

Ademco Channel Number	*Area Reported*
1	Input Isolated in Area 1
2	Input Isolated in Area 2
3	Input Isolated in Area 3
4	Input Isolated in Area 4
5	Input Isolated in Area 5
6	Input Isolated in Area 6
7	Input Isolated in Area 7
8	Input Isolated in Area 8

TABLE 5 : NETWORK EVENTS AND COMMANDS

ZONE BYPASS REPORT (9TH CHANNEL = 3) On 2nd Account Number

Ademco Channel Number ..... *Area Reported*

1	Input Isolated in Area 9
2	Input Isolated in Area 10
3	Input Isolated in Area 11
4	Input Isolated in Area 12
5	Input Isolated in Area 13
6	Input Isolated in Area 14
7	Input Isolated in Area 15
8	Input Isolated in Area 16

COMMON CLOSING REPORT (9TH CHANNEL = 4) On 1st Account Number

Ademco Channel Number ..... *User Number*

0	10,16,26,32,42,48,58,64,74,80,90,96
1	1,17,33,49,65,81,97
2	2,18,34,50,66,81,98
3	3,19,35,51,67,83,99
4	4,20,36,52,68,84,100
5	5,21,37,53,69,85
6	6,22,38,54,70,86
7	7,23,39,55,71,87
8	8,24,40,56,72,88
9	9,25,41,57,73,89
B	11,27,43,59,75,91
C	12,28,44,60,76,92
D	13,29,45,61,77,93
E	14,30,46,62,78,94
F	15,31,47,63,79,95

ZONE or SYSTEM TROUBLE REPORT (9TH CHANNEL = 5 or 6) Not Used

TABLE 5 : NETWORK EVENTS AND COMMANDS

ZONE ALARM REPORT (9TH CHANNEL = 7) On 1st Account Number

Ademco ..... Area Reported
Channel
Number

1 ..... Alarm in Area 1
2 ..... Alarm in Area 2
3 ..... Alarm in Area 3
4 ..... Alarm in Area 4
5 ..... Alarm in Area 5
6 ..... Alarm in Area 6
7 ..... Alarm in Area 7
8 ..... Alarm in Area 8

ZONE ALARM REPORT (9TH CHANNEL = 7) On 2nd Account Number

Ademco ..... Area Reported
Channel
Number

1 ..... Alarm in Area 9
2 ..... Alarm in Area 10
3 ..... Alarm in Area 11
4 ..... Alarm in Area 12
5 ..... Alarm in Area 13
6 ..... Alarm in Area 14
7 ..... Alarm in Area 15
8 ..... Alarm in Area 16

TABLE 5 : NETWORK EVENTS AND COMMANDS

STU EVENTS

SERIAL DATA

Event ..... Message Type

Hex

31	Any Areas Accessed		User	(First Area Accessed)
32-41	Access Area (1-16)		User	
51	All Areas Secure		User	
52-61	Secure Area (1-16)		User	
06	Input Alarm	Alarm	Input No. (1-239)	
08	Input Alarm	Restore	Input No. (1-239)	
0E	Input Tamper	Alarm	Input No. (1-239)	
10	Input Tamper	Restore	Input No. (1-239)	
15	Input Isolated		Input No. (1-239)	
18	Input De-Isolated		Input No. (1-239)	
06	System Message	Alarm	(240-255)	***See System***
08	System Message	Restore	(240-255)	***Messages***

SYSTEM MESSAGES

Input Point
Hex

F0	(240)	RAS Off-line
F1	(241)	DGP Off-line
F2	(242)	CPU Restart
F3	(243)	Mains Fail
F4	(244)	Low Battery
F5	(245)	DGP Tamper
F6	(246)	Siren Tamper
F7	(247)	Duress Alarm
F8	(248)	Guard failed to check-in**
F9	(249)	Remote Login**
FA	(250)	Film out
FB	(251)	Out-of-Hour Opening
FC	(252)	Service Requested
FD	(253)	Line Monitor Fail
FE	(254)	Program Mode Entered
FF	(255)	Periodic Test

** *These events have NO restorals*

TABLE 5 : NETWORK EVENTS AND COMMANDS

STU EVENTS

CHANNEL DATA

Channel Number	*Event Reported*	
1	Duress	
2	Alarm or Tamper	(Inputs)
3	DGP or RAS Off-Line	
4	System Tamper	(DGP Tamper & Siren Tamper)
5	Mains Fail	
6	Low Battery	
7	Isolated Inputs	
8	Open Close	
9	CPU Restart	(Panel reset)
10	Film Out	

PANEL LINK SERIAL DATA

Event	*Message Type*	
Hex	*User #99*	
31	Any Areas Accessed	User #99
32-50	Access Area (1-31)	User #99
51	All Areas Secure	(includes areas 1-255 if reporting enabled for area)
52-70	Secure Area (1-31)	User #99
06	Area Alarm	Area No. (1-255)
08	Area Restore	Restore Area No. (1-255)

PANEL LINK CHANNEL DATA

Channel Number	*Event Reported across all panels in a Panel Link system*	
1	Duress	
2	Alarm or Tamper	(Inputs)
3	DGP or RAS Off-Line	
4	System Tamper	(DGP Tamper & Siren Tamper)
5	Mains Fail	
6	Low Battery	
7	Isolated Inputs	
8	All Close	
9	Panel Link Fail	
10	Film Out	(reporting Panel only)
11	Login	(reports when management software is connected to a Panel Link system via dialer)

TABLE 6 : PRE-SET EVENT FLAGS

Some of the event flags used in the system will activate under pre-set criteria if certain settings exist, while event flag 15 will activate regardless of settings.

Output Number		
1	Siren	Default Siren Event Flag. (Assigned in Area Database) If set at YES on the input database, will activate when any siren activates in any area.
2	Secure Alarm	If set at YES on the input database, will activate when an alarm is generated by the input and all the areas assigned to the input are armed. Used for activation of System Strobe.
3	Secure Alarm	As per 2
4	Secure Alarm	As per 2
5	Secure Alarm	As per 2
6	Access Alarm	If set at YES on the input database, will activate when an alarm is generated by the input and one or more of the areas assigned to the input is disarmed.
7	Access Alarm	As per 6
8	24 Hour Alarm	If set at YES on the input database, will be activated at any time an alarm is generated by the input.
9	Secure Alarm	As per 2
10	Secure Alarm	As per 2
11	Secure Alarm	As per 2
12	Secure Alarm	As per 2
13	Access Alarm	As per 6
16	Tester	Activates during the secure test. A tester event is programmed to activate a device which will allow testing of other devices. The tester event flag will activate for half the "Tester Event Time" programmed in Installer Menu Option 6 - Timers. The remaining period of the secure test time is settling time to allow the tested device to reseal. i.e. Make sure that the Secure Test time is longer than the Tester Event time.

Note: It is recommended that these event flag numbers are not used elsewhere in the system.

TABLE 7 : ARMING STATION TYPE PROGRAMMING

Arming Station Type Programming Requirements

	TS0801	TS0802	TS0003	TS0004	TS0006	TS0007	TS0008	TS0009	TS0210	TS0063/65
LCD Arming Station	Y	Y	N	Y	N	N	N	N	Y	N
Toggle Keyboard Control	N	N	O*	O*	O*	O	O	N	N	O
Enter Key Opens Door Only	O	O	O	O	O	O	N	N	N	N
Door Event Flag on Alarm Codes	O	O	O	O	O	O	N	N	O	N
Display Shunt On RAS	O	O	N	O	N	N	N	N	O	N
Arm Using One Key	O#	O#	N	N	N	N	N	N	Y	N
Card Auto Disarms	N	O	N	N	N	O	O	O	N	O
Card Always Disarms/Arms	N	O	N	N	N	O	O	O	N	O
Reset Without Code	O	O	O	O	O	O	N	N	O	N
Restricted User Category to Disarm	O	O	O	O	O	O	O	O	O	O

Y - Must be set to YES N - Must be set to NO O - Optional

* - The "Toggle Keyboard Control" option is NOT recommended.

- CAUTION! If a TS0801 Arming Station is used as the Master; and "Arm Using One Key" is set to YES; the system must be programmed so that Areas 9 to 16 can never be armed.

Programming Card Readers (TS0007, TS0008, TS0802, TS0063/65) for Alarm Control.

	PROGRAMMING OPTIONS			
FUNCTION	Toggle Keyboard Control	Card Auto Disarms	Card Always Disarms/Arms	NOTES
Card <OFF>- Disarms Card <ON> - Arms	NO	NO	NO	TS0007, TS0802, and TS0063/65+TS0064 ONLY
Card - Disarms Card <ON> - Arms	NO	YES	NO	No Arming on TS0008
Card - Disarms Card - Arms	YES	NO	YES	
Card <ENTER> - Disarms Card <ENTER> - Arms	YES	NO	NO	TS0007, TS0802 ONLY

APPENDIX II

V8 CHALLENGER

HELP GUIDE

. . HELP . .

CONDITION	POSSIBLE CAUSE
Master LCD Arming Station has all LEDs flashing and displays “Service” message.	The LAN line may be connected incorrectly. The address links on the RAS may be incorrectly set.
Panel is not communicating with Arming Stations and/or Data Gathering Panels.	The LAN line may be connected incorrectly, or the wrong cable type may have been used. RAS and/or DGP numbers to be polled may not be programmed, or may not match the addresses set on the units.
Arming Stations and/or Data Gathering Panels appear be going off-line and on-line. (Indicated by RAS/DGP fail LEDs on 16 area RAS and by LCD display "RAS Fail" messaage.)	The LAN line may be connected incorrectly, or the wrong cable type may have been used. Termination may be incorrect. TERM links may not have been removed where necessary. *Refer to:* Connections - TERM.
Input going into alarm while area disarmed.	Input wired incorrectly causing tamper condition (Open circuit or Short circuit) instead of unsealed condition. E.O.L. resistors may be installed incorrectly. *Refer to:* Wiring diagrams.
Unable to assign Alarm Groups when programming Users.	No alarm groups have been programmed with the option “Can This Alarm Group be Assigned to Users ” set to YES. If a code other than the Master code (User 50) is being used to access “Program Users”, the Alarm Group assigned to it may not allow the function. *Refer to:* Programming Guide Installer Option 5
Panel not reporting to Monitoring Station	Line connections may be wired incorrectly. *Refer to:* Connections - Line, and wiring diagrams. Panel may be wrong type for the particular reporting format. Direct Line or STU address; or Account number (Dialler panels only) in Installer option 9 may be programmed incorrectly. Dialler versions. Phone No. 1 MUST be programmed.

. . HELP . .

CONDITION	POSSIBLE CAUSE
All the LEDs on the arming station are flashing.	The links may be incorrectly set. (The address recorded on the arming station may be incorrect and polling to the arming station is not being acknowledged.) The LAN line may be connected incorrectly. The arming station is not being polled. (It may not have been included in Arming stations to be polled when programming arming stations.)
LEDs are not operating.	No power or low power.
LEDs do not appear to be indicating the correct condition.	The arming station type may have been defined incorrectly. *LCD Arming Station* must be set to YES. On TS0004 and TS0210 the *Relay Group* must be set to 0. On TS0001 *Toggle Keyboard Control* must be set to NO.
The arming station appears to be going off-line and on-line. (Indicated by *The Challenger* RAS LED and/or "RAS Fail" message on the LCD)	Termination may be incorrect. *Refer to :* Connections - TERM.
An error is indicated when a code is entered on the keypad (7 beeps).	An invalid PIN may have been used. The Arming Station may not have been programmed with an alarm group. The alarm group of the PIN may not permit access at this arming station.
When you touch the arming station it seems to lock up due to static. (TS0004 / TS0210 only)	The arming station may not have been earthed. The star washers on the cover screws may not be in place. (These are used to provide an electrical connection between the cover and the base)

. . HELP . .

CONDITION	POSSIBLE CAUSE
All the LEDs on the arming station are flashing.	The links may be incorrectly set. (The address recorded on the arming station may be incorrect and polling to the arming station is not being acknowledged.) The LAN line may be connected incorrectly. The arming station is not being polled. (It may not have been included in Arming stations to be polled when programming arming stations.)
LEDs are not operating.	No power or low power.
LEDs do not appear to be indicating the correct condition.	The arming station type may have been defined incorrectly. *LCD Arming Station* and must be set at NO.
The arming station appears to be going off-line and on-line. (Indicated by *The Challenger* RAS LED and/or "RAS Fail" message on the LCD)	Termination may be incorrect. *Refer to :* Connections - TERM.
The arming station appears to lockup when the relay which it controls via the OUT terminal, activates.	The relay probably does not have a reverse diode accross it to protect against back emf.
An error is indicated when a code is entered on the keypad (7 beeps).	An invalid PIN may have been used. The Arming Station may not have been programmed with an alarm group. The alarm group of the PIN may not permit access at this arming station.

. . HELP . .

CONDITION	POSSIBLE CAUSE
The "Tx" LED on the data gathering panel is not flashing.	The links may be incorrectly set. (The address recorded on the data gathering panel may be incorrect and polling to the data gathering panel is not being acknowledged.) The LAN cable may be connected incorrectly. The data gathering panel is not being polled. (It may not have been included in Data Gathering Panels to be polled when programming data gathering panels.)
"Tx" and "Rx" LEDs are not operating.	No power or low power. The LAN cable may be connected incorrectly.
The data gathering panel appears to be going off-line and on-line. (Indicated by *The Challenger* DGP LED and/or "DGP Fail" on the LCD)	Termination may be incorrect. *Refer to :* Connections - TERM.
Some or all DGP inputs are permanently in tamper. (Or permanently in alarm if "Input Tamper Monitoring" in Installer Option 7 is set to NO)	The input numbers for the DGP have been calculated incorrectly, and input type numbers have therefore been assigned to the wrong inputs in the Input Database. See: Numbering - Inputs/DGPs/Relays/Doors. The 8 Input Expansion module/s (if fitted) have the DIPswitches incorrectly set. Expansion module: 1st 2nd 3rd DIPswitch 1 *ON* OFF OFF DIPswitch 2 OFF *ON* OFF DIPswitch 3 OFF OFF *ON* DIPswitch 4 not used.
Two or three 8 Input expansion modules are fitted to increase the DGP to 24 or 32 inputs, but the 17th to 32nd inputs on the DGP do not seem to function.	DIPswitch 5 on the DGP has not been set to ON.
Four way Relay module/s (TS0840) being used with the DGP do not function, but some of the LEDs on the module appear ro be permanently on.	DIPswitch 6 on the DGP is set to ON. (DIPswitch 6 should only be on if 8 Way relay modules or 16 Open collector modules are being used)
8 Way Relay modules or 16 Way Open collector modules connected to the DGP do not function.	DIPswitch 6 on the DGP has not been set to ON.
The siren output (with 8 ohm siren speaker connected) does not operate when it is meant to.	The 16th (last) relay number associated with the DGP address has not been mapped to a Siren Event Flag Number. See: Relay mapping Numbering - Inputs/DGPs/Relays. Area Database (Siren Event Flags)

. . HELP . .

CONDITION	POSSIBLE CAUSE
No Printout.	The printer output or the selected events may not have been enabled, or the timezone selected for printing may not be valid in Installer Option 30 - Printer, The Baud rate and parity options selected in Installer Option 30 - Printer may not match the options set in the printer. The cable from TS0094 Port B to Printer may be wired incorrectly. Check against installation guide. The wrong type of cable may have been used or the cable may have been run too far. 4 or 6 core RS232 shielded data cable must be used and should not be run more than 15 metres. The printer is not providing a Data Terminal Ready signal (+8 to +11V DC) to the CTS input on the TS0094 Port B. (Check with meter and check connection between Printer Serial connector, pin 20 "DTR" and TS0094 Port B, "CTS") The Serial Printer may not be set up correctly.
Print-out is unintelligible or misaligned etc.	The Baud rate and parity options selected in Installer Option 30 - Printer may not match the options set in the printer. The printer is not compatible with the Epson printer codes for condensed and enhanced printing. (SI, DC2, S0 & DC4)

. . HELP . .

CONDITION	POSSIBLE CAUSE
8 Way Relay card (TS0841) won't function:	
- When connected to the Challenger Panel.	The "Number of Relay Controllers" has not been set in Installer Option 7 - System options. (No of Relay Controllers = 1 for each 8 Way Relay card)
- When connected to a DGP.	DIPswitch 6 has not been set to ON.
16 Way Open Collector card (TS0842) won't function:	
- When connected to the Challenger Panel.	The "Number of Relay Controllers" has not been set in Installer Option 7 - System options. (No of Relay Controllers = 2 for each 16 Way O/C card)
- When connected to a DGP.	DIPswitch 6 has not been set to ON.
4 Way Relay card/s (TS0840) won't function:	
- When connected to the Challenger Panel.	The "Number of Relay Controllers" has not been set to 0 in Installer Option 7 - System options.
- When connected to a DGP.	DIPswitch 6 has not been set to OFF.
Relays will not function after being enabled as above.	The Relay has not been mapped to an Event Flag or the relay number has been calculated incorrectly and therefore not programmed as the correct relay number. The Relay is being held inactive during a timezone. The cable has been connected incorrectly, or is the wrong cable for the application (When connecting between Version 8 & non-Version 8 equipment) See: Relay Mapping Numbering - Inputs/DGPs/Relays Hardware installation guide/s supplied with relay cards

APPENDIX III

V8 PROGRAMMING SHEETS

INPUT DATABASE SUMMARY

(*Refer to:* Installer menu option 1)

INPUT NUMBER: ______

Name: *Text No:* *Word:* *Variable:*

1st Text Word ______ ________________________ 1st Variable ______
2nd Text Word ______ ________________________ 2nd Variable ______
3rd Text Word ______ ________________________ 3rd Variable ______
4th Text Word ______ ________________________ 4th Variable ______

Input Type: *No:* ______ *Type:* ____

Area Assignment: *Area/s:* ____

INPUT NUMBER: ______

Name: *Text No:* *Word:* *Variable:*

1st Text Word ______ ________________________ 1st Variable ______
2nd Text Word ______ ________________________ 2nd Variable ______
3rd Text Word ______ ________________________ 3rd Variable ______
4th Text Word ______ ________________________ 4th Variable ______

Input Type: *No:* ______ *Type:* ____

Area Assignment: *Area/s:* ____

INPUT NUMBER: ______

Name: *Text No:* *Word:* *Variable:*

1st Text Word ______ ________________________ 1st Variable ______
2nd Text Word ______ ________________________ 2nd Variable ______
3rd Text Word ______ ________________________ 3rd Variable ______
4th Text Word ______ ________________________ 4th Variable ______

Input Type: *No:* ______ *Type:* ____

Area Assignment: *Area/s:* ____

INPUT NUMBER: ______

Name: *Text No:* *Word:* *Variable:*

1st Text Word ______ ________________________ 1st Variable ______
2nd Text Word ______ ________________________ 2nd Variable ______
3rd Text Word ______ ________________________ 3rd Variable ______
4th Text Word ______ ________________________ 4th Variable ______

Input Type: *No:* ______ *Type:* ____

Area Assignment: *Area/s:* ____

INPUT DATABASE

(*Refer to:* Installer menu option 1)

INPUT NUMBER: ..... *Number*	_____	_____	_____	_____	
					(Default)
Input Name/Description: (*See Summary)* ...	_____	_____	_____	_____	
Input Type: ..... *Number*	_____	_____	_____	_____	(*2 on I/P1-16*) (*None on rest*)
Report I.D. (Contact ID only): ..... *Number*	_____	_____	_____	_____	(*25-140*)
Area Assignment: *(Circle area/s)*	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	(*1*)
OR					
Alarm Group: ..... *Number*	_____	_____	_____	_____	(*None*)
Test Option: ..... *Number*	_____	_____	_____	_____	(*0*)
EVENT FLAGS:					
Activate Selected Event Flag: ..... *Number*	_____	_____	_____	_____	(*None*)
Activate Siren Event: ..... *YES/NO*	_____	_____	_____	_____	(*YES*)
Activate Console Warning: ..... *YES/NO*	_____	_____	_____	_____	(*NO)*
Make All Events 24 Hour: ..... *YES/NO*	_____	_____	_____	_____	(*NO*)
Activate Event Flag 2, Secure Alarm: .. *YES/NO*	_____	_____	_____	_____	(*YES*)
Activate Event Flag 3, Secure Alarm: .. *YES/NO*	_____	_____	_____	_____	(*NO*)
Activate Event Flag 4, Secure Alarm: .. *YES/NO*	_____	_____	_____	_____	(*NO*)
Activate Event Flag 5, Secure Alarm: .. *YES/NO*	_____	_____	_____	_____	(*NO*)
Activate Event Flag 6, Access Alarm: .. *YES/NO*	_____	_____	_____	_____	(*NO*)
Activate Event Flag 7, Access Alarm: .. *YES/NO*	_____	_____	_____	_____	(*NO*)
Activate Event Flag 8, 24Hr Alarm: .... *YES/NO*	_____	_____	_____	_____	(*NO*)
Activate Event Flag 9, Secure Alarm: .. *YES/NO*	_____	_____	_____	_____	(*NO*)
Activate Event Flag 10, Secure Alm: ... *YES/NO*	_____	_____	_____	_____	(*NO*)
Activate Event Flag 11, Secure Alm: ... *YES/NO*	_____	_____	_____	_____	(*NO*)
Activate Event Flag 12, Secure Alm: ... *YES/NO*	_____	_____	_____	_____	(*NO*)
Activate Event Flag 13, Access Alm: .... *YES/NO*	_____	_____	_____	_____	(*NO*)
Activate Camera Event Flag: ..... *YES/NO*	_____	_____	_____	_____	(*NO*)
Print Input when Unsealed: ..... *YES/NO*	_____	_____	_____	_____	(*NO*)

AREA SUMMARY

(*Refer to:* Installer menu option 2)

Area One: **Name:** _____

Area Two: **Name:** _____

Area Three: **Name:** _____

Area Four: **Name:** _____

Area Five: **Name:** _____

Area Six: **Name:** _____

Area Seven: **Name:** _____

Area Eight: **Name:** _____

Area Nine: **Name:** _____

Area Ten: **Name:** _____

Area Eleven: **Name:** _____

Area Twelve: **Name:** _____

Area Thirteen: **Name:** _____

Area Fourteen: **Name:** _____

Area Fifteen: **Name:** _____

Area Sixteen: **Name:** _____

AREA DATABASE

(*Refer to:* Installer menu option 2)

AREA NUMBER:	*Area*	***1***	***2***	***3***	***4***	***5***	***6***	***7***	***8***	*(Default)*
Exit Time is set to:	*Seconds*	_____	_____	_____	_____	_____	_____	_____	_____	(60)
Entry Time is set to:	*Seconds*	_____	_____	_____	_____	_____	_____	_____	_____	(30)
Siren Event Number:	*Number*	_____	_____	_____	_____	_____	_____	_____	_____	*(1)*
Accessed Event Number:	*Number*	_____	_____	_____	_____	_____	_____	_____	_____	
Unsealed Event Number:	*Number*	_____	_____	_____	_____	_____	_____	_____	_____	
Isolate Event Number:	*Number*	_____	_____	_____	_____	_____	_____	_____	_____	
Secure Alarm Event Number:	*Number*	_____	_____	_____	_____	_____	_____	_____	_____	
Access Alarm Event Number:	*Number*	_____	_____	_____	_____	_____	_____	_____	_____	
Local Alarm Event Number:	*Number*	_____	_____	_____	_____	_____	_____	_____	_____	
Exit Timer Event Number:	*Number*	_____	_____	_____	_____	_____	_____	_____	_____	
Entry Timer Event Number:	*Number*	_____	_____	_____	_____	_____	_____	_____	_____	
Warning Timer Event Number:	*Number*	_____	_____	_____	_____	_____	_____	_____	_____	
Camera Event Number:	*Number*	_____	_____	_____	_____	_____	_____	_____	_____	
Pre-Alarm Event Number:	*Number*	_____	_____	_____	_____	_____	_____	_____	_____	
Out-of-Hour Tz Number:	*Tz. No.*	_____	_____	_____	_____	_____	_____	_____	_____	
Area Disarm Time is set to:	*Minutes*	_____	_____	_____	_____	_____	_____	_____	_____	

AREA NUMBER:	*Area*	***9***	***10***	***11***	***12***	***13***	***14***	***15***	***16***	*(Default)*
Exit Time is set to:	*Seconds*	_____	_____	_____	_____	_____	_____	_____	_____	(60)
Entry Time is set to:	*Seconds*	_____	_____	_____	_____	_____	_____	_____	_____	(30)
Siren Event Number:	*Number*	_____	_____	_____	_____	_____	_____	_____	_____	*(1)*
Accessed Event Number:	*Number*	_____	_____	_____	_____	_____	_____	_____	_____	
Unsealed Event Number:	*Number*	_____	_____	_____	_____	_____	_____	_____	_____	
Isolate Event Number:	*Number*	_____	_____	_____	_____	_____	_____	_____	_____	
Secure Alarm Event Number:	*Number*	_____	_____	_____	_____	_____	_____	_____	_____	
Access Alarm Event Number:	*Number*	_____	_____	_____	_____	_____	_____	_____	_____	
Local Alarm Event Number:	*Number*	_____	_____	_____	_____	_____	_____	_____	_____	
Exit Timer Event Number:	*Number*	_____	_____	_____	_____	_____	_____	_____	_____	
Entry Timer Event Number:	*Number*	_____	_____	_____	_____	_____	_____	_____	_____	
Warning Timer Event Number:	*Number*	_____	_____	_____	_____	_____	_____	_____	_____	
Camera Event Number:	*Number*	_____	_____	_____	_____	_____	_____	_____	_____	
Pre-Alarm Event Number:	*Number*	_____	_____	_____	_____	_____	_____	_____	_____	
Out-of-Hour Tz Number:	*Tz. No.*	_____	_____	_____	_____	_____	_____	_____	_____	
Area Disarm Time is set to:	*Minutes*	_____	_____	_____	_____	_____	_____	_____	_____	

Programming Sheet

ARMING STATIONS

(*Refer to:* Installer menu option 3)

		Arming Stations 1	2	3	4	5	6	7	8	*(Default)*
Poll Arming Station:	*YES/NO*	_Yes_	_____	_____	_____	_____	_____	_____	_____	
Area Alarm Group:	*Number*	_____	_____	_____	_____	_____	_____	_____	_____	(1)
Menu Alarm Group:	*Number*	_____	_____	_____	_____	_____	_____	_____	_____	(1)
Door Event Number:	*Number*	_____	_____	_____	_____	_____	_____	_____	_____	
Relay Control Group:	*Number*	_____	_____	_____	_____	_____	_____	_____	_____	
LCD Arming Station:	*YES/NO*	_____	_____	_____	_____	_____	_____	_____	_____	(*No*)
Toggle Keyboard Control:	*YES/NO*	_____	_____	_____	_____	_____	_____	_____	_____	(*No*)
Enter Key Opens Door Only:	*YES/NO*	_____	_____	_____	_____	_____	_____	_____	_____	(*No*)
Activate Door Event on Alarm Codes:	*YES/NO*	_____	_____	_____	_____	_____	_____	_____	_____	(*No*)
Display Shunting on LCD RAS:	*YES/NO*	_____	_____	_____	_____	_____	_____	_____	_____	(*No*)
Arm/Disarm using one Key:	*YES/NO*	_____	_____	_____	_____	_____	_____	_____	_____	(*No*)
Card Auto Disarms:	*YES/NO*	_____	_____	_____	_____	_____	_____	_____	_____	(*No*)
Card Always Disarms & Arms:	*YES/NO*	_____	_____	_____	_____	_____	_____	_____	_____	(*No*)
Reset from LCD RAS without code:	*YES/NO*	_____	_____	_____	_____	_____	_____	_____	_____	(*No*)
Restricted User Categories to disarm:	*YES/NO*	_____	_____	_____	_____	_____	_____	_____	_____	(*No*)
Cards arm after 3 badges:	*YES/NO*	_____	_____	_____	_____	_____	_____	_____	_____	(*No*)

		9	10	11	12	13	14	15	16	*(Default)*
Poll Arming Station:	*YES/NO*	_____	_____	_____	_____	_____	_____	_____	_____	
Area Alarm Group:	*Number*	_____	_____	_____	_____	_____	_____	_____	_____	(1)
Menu Alarm Group:	*Number*	_____	_____	_____	_____	_____	_____	_____	_____	(1)
Door Event Number:	*Number*	_____	_____	_____	_____	_____	_____	_____	_____	
Relay Control Group:	*Number*	_____	_____	_____	_____	_____	_____	_____	_____	
LCD Arming Station:	*YES/NO*	_____	_____	_____	_____	_____	_____	_____	_____	(*No*)
Toggle Keyboard Control:	*YES/NO*	_____	_____	_____	_____	_____	_____	_____	_____	(*No*)
Enter Key Opens Door Only:	*YES/NO*	_____	_____	_____	_____	_____	_____	_____	_____	(*No*)
Activate Door Event on Alarm Codes:	*YES/NO*	_____	_____	_____	_____	_____	_____	_____	_____	(*No*)
Display Shunting on LCD RAS:	*YES/NO*	_____	_____	_____	_____	_____	_____	_____	_____	(*No*)
Arm/Disarm using one Key:	*YES/NO*	_____	_____	_____	_____	_____	_____	_____	_____	(*No*)
Card Auto Disarms:	*YES/NO*	_____	_____	_____	_____	_____	_____	_____	_____	(*No*)
Card Always Disarms & Arms:	*YES/NO*	_____	_____	_____	_____	_____	_____	_____	_____	(*No*)
Reset from LCD RAS without code:	*YES/NO*	_____	_____	_____	_____	_____	_____	_____	_____	(*No*)
Restricted User Categories to disarm:	*YES/NO*	_____	_____	_____	_____	_____	_____	_____	_____	(*No*)
Cards arm after 3 badges:	*YES/NO*	_____	_____	_____	_____	_____	_____	_____	_____	(*No*)

DATA GATHERING PANELS

(*Refer to:* Installer menu option 4)

		1	2	3	4	5	6	7	8
Poll Data Gathering Panel:	*YES/NO*	_____	_____	_____	_____	_____	_____	_____	_____
Data Gathering Panel Type:	*Number*	_____	_____	_____	_____	_____	_____	_____	_____

		9	10	11	12	13	14	15
Poll Data Gathering Panel:	*YES/NO*	_____	_____	_____	_____	_____	_____	_____
Data Gathering Panel Type:	*Number*	_____	_____	_____	_____	__0__	__0__	__0__

Data Gathering Panel Types:

Type 0: ..... Standard

Type 1: ..... Door Controller

Type 2: ..... Lift Controller

ALARM GROUP SUMMARY

(*Refer to:* Installer menu option 5)

Number: ..... *Name:* .....

Function Summary: .....

.....

.....

Number: ..... *Name:* .....

Function Summary: .....

.....

.....

Number: ..... *Name:* .....

Function Summary: .....

.....

.....

Number: ..... *Name:* .....

Function Summary: .....

.....

.....

Number: ..... *Name:* .....

Function Summary: .....

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Number: ..... *Name:* .....

Function Summary: .....

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Number: ..... *Name:* .....

Function Summary: .....

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Number: ..... *Name:* .....

Function Summary: .....

.....

.....

Number: ..... *Name:* .....

Function Summary: .....

.....

.....

ALARM GROUPS

(*Refer to:* Installer menu option 5)

Number:		_____	_____	_____	_____
Name:		_____	_____	_____	_____
Areas assigned:	*Number/s*	_____	_____	_____	_____
.		_____	_____	_____	_____
Can this Group be Assigned to Users: ..	*YES/NO*	_____	_____	_____	_____
Alarm System Control	*YES/NO*	_____	_____	_____	_____
Prompt with List of Areas:	*YES/NO*	_____	_____	_____	_____
Can Users activate Keyboard Duress: .	*YES/NO*	_____	_____	_____	_____
Reset System Alarms:	*YES/NO*	_____	_____	_____	_____
Disable Auto De-isolate:	*YES/NO*	_____	_____	_____	_____
Restricted to Arm & Reset Only:	*YES/NO*	_____	_____	_____	_____
Restricted to Disarm Only:	*YES/NO*	_____	_____	_____	_____
Restricted to Alarm Reset Only:	*YES/NO*	_____	_____	_____	_____
Auto Isolate Unsealed Inputs:	*YES/NO*	_____	_____	_____	_____
Forced Arming when Unsealed Inputs:	*YES/NO*	_____	_____	_____	_____
Prevent Forced Disarming:	*YES/NO*	_____	_____	_____	_____
Can User Access Via Modem:	*YES/NO*	_____	_____	_____	_____
Link User To User Category 1:	*YES/NO*	_____	_____	_____	_____
Link User To User Category 2:	*YES/NO*	_____	_____	_____	_____
Link User To User Category 3:	*YES/NO*	_____	_____	_____	_____
Link User To User Category 4:	*YES/NO*	_____	_____	_____	_____
Link User To User Category 5:	*YES/NO*	_____	_____	_____	_____
Link User To User Category 6:	*YES/NO*	_____	_____	_____	_____
Link User To User Category 7:	*YES/NO*	_____	_____	_____	_____
(Dead Man Alarm)					
Link User To User Category 8:	*YES/NO*	_____	_____	_____	_____
(Counter)					
No Arming if User Category not timing:	*YES/NO*	_____	_____	_____	_____
User Menu Options:					
1. Panel Status	*YES/NO*	_____	_____	_____	_____
2. Inputs Unsealed	*YES/NO*	_____	_____	_____	_____
3. Inputs in Alarm	*YES/NO*	_____	_____	_____	_____
4. Inputs Isolated	*YES/NO*	_____	_____	_____	_____
5. History	*YES/NO*	_____	_____	_____	_____
6. Test Report	*YES/NO*	_____	_____	_____	_____
7. Service Menu	*YES/NO*	_____	_____	_____	_____
8. Film Counters	*YES/NO*	_____	_____	_____	_____
9. Input Text	*YES/NO*	_____	_____	_____	_____
10. Isolate Input	*YES/NO*	_____	_____	_____	_____
11. De-Isolate Input	*YES/NO*	_____	_____	_____	_____
12. Test Input	*YES/NO*	_____	_____	_____	_____
13. Start Auto Access Test	*YES/NO*	_____	_____	_____	_____
14. Program Users	*YES/NO*	_____	_____	_____	_____
15. Time and Date	*YES/NO*	_____	_____	_____	_____
16. Isolate/Deisolate RAS/DGP	*YES/NO*	_____	_____	_____	_____
17. Enable/Disable Service Tech.	*YES/NO*	_____	_____	_____	_____
18. Reset Camera Counts	*YES/NO*	_____	_____	_____	_____
19. Installer Options	*YES/NO*	_____	_____	_____	_____
20. Door and Floor Groups	*YES/NO*	_____	_____	_____	_____
21. Holidays	*YES/NO*	_____	_____	_____	_____
22. Open door	*YES/NO*	_____	_____	_____	_____
23. Unlock, Lock, Disable and Enable	*YES/NO*	_____	_____	_____	_____
24. Print History	*YES/NO*	_____	_____	_____	_____
Time Zone:	*Number*	_____	_____	_____	_____
Alternate Alarm Group:	*Number*	_____	_____	_____	_____

TIMERS

(*Refer to:* Installer Menu Option 6)

		(Default)
User Category 1 Time is set to:	_____minutes	*(0)*
User Category 2 Time is set to:	_____minutes	*(0)*
User Category 3 Time is set to:	_____minutes	*(0)*
User Category 4 Time is set to:	_____minutes	*(0)*
User Category 5 Time is set to:	_____minutes	*(0)*
User Category 6 Time is set to:	_____minutes	*(0)*
User Category 7 Time is set to:	_____minutes	*(0)*
User Category 8 Time is set to: ..... *(Must be set to 0)*	____0___minutes	*(0)*
Access Test Time is set to:	_____minutes	*(15)*
Secure Test Time is set to:	_____minutes	*(15)*
Warning Time is set to:	_____minutes	*(5)*
Delayed Holdup is set to:	_____seconds	*(60)*
Suspicion Time is set to:	_____seconds	*(15)*
Service Isolate Time is set to:	_____minutes	*(60)*
Local Alarm Reminder Time is set to:	_____minutes	*(0)*
Individual Input Test Time is set to:	_____minutes	*(5)*
Door(s) 1 to 16 Access Time is set to:	_____seconds	*(5)*
Tester Event Time is set to:	_____seconds	*(15)*
Siren Time is set to:	_____minutes	*(8)*
Mains Fail Time is set to:	_____minutes	*(5)*

SYSTEM OPTIONS

(*Refer to:* Installer Menu Option 7)

		(Default)
Area/s Selected to Total Disarm:	_____	*(0)*
Film Low is set to:	_____	*(800)*
Film Out is set to:	_____	*(1100)*
Test Option is set to:	_____	*(0)*
0-No Testmode ..... 1-Enable Auto. Testmode 2-Auto. Secure test, Manual Access testmode ..... 3-Auto. Access testmode		
Relay Controllers:	*Number* _____	*(0)*
Event Text: ..... *Number* _____	..... *Word* _____	
Alarm Prefix:	*Length* _____	
Time Before Rotate:	*Value* _____	
Rotate Speed:	*Value* _____	
Input Tamper Monitoring:	YES/NO	*(No)*
Auto De-isolate:	YES/NO	*(No)*
Display one input at a time:	YES/NO	*(No)*
Name File:	YES/NO	*(No)*
System Alarms Set Strobe & Siren:	YES/NO	*(No)*
Latching System Alarms:	YES/NO	*(No)*
Siren Testing:	YES/NO	*(No)*
Disable "0 Enter" For Camera Reset:	YES/NO	*(No)*
Disable Auto Insert of User Categories:	YES/NO	*(No)*
Disable Area LEDs that don't Report:	YES/NO	*(No)*
Disable Code from Displaying:	YES/NO	*(No)*
Disable Flashing Area LEDs:	YES/NO	*(No)*
Dual Custody Code Programming:	YES/NO	*(No)*
Display Alarm Instantly:	YES/NO	*(No)*
Sirens Only After Report Fail:	YES/NO	*(No)*
Financial Institution Options:	YES/NO	*(No)*
Display User Flags:	YES/NO	*(No)*
Delay Holdup Lockout	YES/NO	*(No)*
User Offset	*Value* _____	

AUTO RESET

(*Refer to:* Installer menu option 8)

Reset Time: ..... *Minutes* _____

Alarm Group: ..... *Number* _____

Name _____

COMMUNICATION OPTIONS

(*Refer to:* Installer menu option 9)

		(Default)	(Format/s)
PABX Access Code:_____			*1-4,7,8*
Telephone Numbers: ..... 1)_____			*1-4,7,8*
2)_____			*1-4,7,8*
Service Telephone No: ... _____			*1-4,7,8*
Callback Telephone No: _____			*1-4,7,8*
Computer Telephone No: _____			*1-4,7,8*

Account (Cct) Number/s: *Area* *Account No.* *(4 Digits for Ademco formats, 6 Digits in Area 1 for Tecom Dialler)*

System ..... _____		*1-4*
1 ..... _____		*1-4,7,8*
2 ..... _____		*1-4*
3 ..... _____		*1-4*
4 ..... _____		*1-4*
5 ..... _____		*1-4*
6 ..... _____		*1-4*
7 ..... _____		*1-4*
8 ..... _____		*1-4*
9 ..... _____		*1-4*
10 ..... _____		*1-4*
11 ..... _____		*1-4*
12 ..... _____		*1-4*
13 ..... _____		*1-4*
14 ..... _____		*1-4*
15 ..... _____		*1-4*
16 ..... _____		*1-4*

Format Selection: *(One only)*

0	Disabled	YES/NO
1	High Speed Dual Round	YES/NO
2	High Speed Ext. Checksummed	YES/NO
3	Contact ID - Small	YES/NO
4	Contact ID - Large	YES/NO
5	Securitel Serial Data Format	YES/NO
6	Securitel Pin (Channel Data)	YES/NO
7	Tecom Dialler Version 1	YES/NO
8	Tecom Dialler Version 3	YES/NO
9	Tecom Direct Line Format - Small	YES/NO
10	Tecom Direct Line Format - Large	YES/NO
	Other:_____	YES/NO

Direct Line Address: _____	*(0)*		*9, 10*
Computer Address: _____	*(0)*		*Computer*
Areas to Report Open/Close:____,____,____,____,____,____,____,____, ____,____,____,____,____,____,____,____		*(1)*	*All*
Securitel Hard ID: .....*Number* _____		*(0000)*	*5,6*
Encryption Key: .....*Number* _____		*(0)*	*9, 10*

Continued Over .....

COMMUNICATION OPTIONS continued

(*Refer to:* Installer menu option 9)

			(Default)	(Format/s)
Number of Rings:	*Number* _____		*(0)*	*1-4,7,8*
Number of Calls before Answer:	*Number* _____		*(0)*	*1-4,7,8*
Testmode:	Test call once a day	YES/NO		*1-4,7,8*
	Test call once a week	YES/NO		
	Test call once a day if no events	YES/NO		
	Test call once a week if no events	YES/NO		
	No test calls	YES/NO	(*Yes*)	
Test Call Time:	*Time* ____:____		*(00:00)*	*1-4,7,8*
Maximum Events in Comms Buffer:	*Number* _____		*(255)*	*All*
Multi Break Alarms:	YES/NO		*(No)*	*All*
Multi Break Restorals:	YES/NO		*(No)*	*All*
Always Terminate Direct Line:	YES/NO		*(No)*	*9, 10*
Remote System Control (N'work Commands):	YES/NO		*(No)*	*9, 10*
Common Open/Close Reporting:	YES/NO		*(No)*	*All*
Tone Dialling*:*	YES/NO		*(Yes)*	*1-4,7,8*
Disable Isolates Triggering Dialler:	YES/NO		*(No)*	*1-4,7,8*
Answering Machine Defeat:	YES/NO		*(No)*	*1-4,7,8*
Enable PSTN Line Fault Monitor:	YES/NO		*(No)*	*1-4,7,8*
Computer Port Connected Via Modem:	YES/NO		*(No)*	*Computer*
Dial Alarm Events to ComputerInstantly:	YES/NO		*(No)*	*Computer*
Dial Access Events to ComputerInstantly:	YES/NO		*(No)*	*Computer*
Dial Events via Computer Port:	YES/NO		*(No)*	*Computer*
Dial Events via On-board Modem:	YES/NO		*(No)*	*Computer*

TEXT WORDS

(*Refer to:* Installer menu option 10)

Text Word Number (900-999)	**Word** (Up to 16 characters)

TIME ZONES

(*Refer to*: Installer menu option 13)

Timezone Number

________ .1 *Start* ____________ *End* ____________
Days: SUN/MON/TUE/WED/THU/FRI/SAT/HOL

.2 *Start* ____________ *End* ____________
Days: SUN/MON/TUE/WED/THU/FRI/SAT/HOL

.3 *Start* ____________ *End* ____________
Days: SUN/MON/TUE/WED/THU/FRI/SAT/HOL

.4 *Start* ____________ *End* ____________
Days: SUN/MON/TUE/WED/THU/FRI/SAT/HOL

________ .1 *Start* ____________ *End* ____________
Days: SUN/MON/TUE/WED/THU/FRI/SAT/HOL

.2 *Start* ____________ *End* ____________
Days: SUN/MON/TUE/WED/THU/FRI/SAT/HOL

.3 *Start* ____________ *End* ____________
Days: SUN/MON/TUE/WED/THU/FRI/SAT/HOL

.4 *Start* ____________ *End* ____________
Days: SUN/MON/TUE/WED/THU/FRI/SAT/HOL

________ .1 *Start* ____________ *End* ____________
Days: SUN/MON/TUE/WED/THU/FRI/SAT/HOL

.2 *Start* ____________ *End* ____________
Days: SUN/MON/TUE/WED/THU/FRI/SAT/HOL

.3 *Start* ____________ *End* ____________
Days: SUN/MON/TUE/WED/THU/FRI/SAT/HOL

.4 *Start* ____________ *End* ____________
Days: SUN/MON/TUE/WED/THU/FRI/SAT/HOL

________ .1 *Start* ____________ *End* ____________
Days: SUN/MON/TUE/WED/THU/FRI/SAT/HOL

.2 *Start* ____________ *End* ____________
Days: SUN/MON/TUE/WED/THU/FRI/SAT/HOL

.3 *Start* ____________ *End* ____________
Days: SUN/MON/TUE/WED/THU/FRI/SAT/HOL

.4 *Start* ____________ *End* ____________
Days: SUN/MON/TUE/WED/THU/FRI/SAT/HOL

USER CATEGORY DATA

(*Refer to:* Installer menu option 15)

Number ***Area Number***

------- **User Category Name: ....** Word No:__________ Name:____________________________

1. Areas to TIME ON .... ___,___,___,___,___,___,___,___,___,___,___,___,___,___,___,___

1. Areas to ARM/RESET .... ___,___,___,___,___,___,___,___,___,___,___,___,___,___,___,___

2. Alt.1 Areas to TIME ON .... ___,___,___,___,___,___,___,___,___,___,___,___,___,___,___,___

2. Alt.1 Areas to ARM/RESET ... ___,___,___,___,___,___,___,___,___,___,___,___,___,___,___,___

3. Alt.2 Areas to TIME ON .... ___,___,___,___,___,___,___,___,___,___,___,___,___,___,___,___

3. Alt.2 Areas to ARM/RESET ... ___,___,___,___,___,___,___,___,___,___,___,___,___,___,___,___

------- **User Category Name: ....** Word No:__________ Name:____________________________

1. Areas to TIME ON .... ___,___,___,___,___,___,___,___,___,___,___,___,___,___,___,___

1. Areas to ARM/RESET .... ___,___,___,___,___,___,___,___,___,___,___,___,___,___,___,___

2. Alt.1 Areas to TIME ON .... ___,___,___,___,___,___,___,___,___,___,___,___,___,___,___,___

2. Alt.1 Areas to ARM/RESET ... ___,___,___,___,___,___,___,___,___,___,___,___,___,___,___,___

3. Alt.2 Areas to TIME ON .... ___,___,___,___,___,___,___,___,___,___,___,___,___,___,___,___

3. Alt.2 Areas to ARM/RESET ... ___,___,___,___,___,___,___,___,___,___,___,___,___,___,___,___

------- **User Category Name: ....** Word No:__________ Name:____________________________

1. Areas to TIME ON .... ___,___,___,___,___,___,___,___,___,___,___,___,___,___,___,___

1. Areas to ARM/RESET .... ___,___,___,___,___,___,___,___,___,___,___,___,___,___,___,___

2. Alt.1 Areas to TIME ON .... ___,___,___,___,___,___,___,___,___,___,___,___,___,___,___,___

2. Alt.1 Areas to ARM/RESET ... ___,___,___,___,___,___,___,___,___,___,___,___,___,___,___,___

3. Alt.2 Areas to TIME ON .... ___,___,___,___,___,___,___,___,___,___,___,___,___,___,___,___

3. Alt.2 Areas to ARM/RESET ... ___,___,___,___,___,___,___,___,___,___,___,___,___,___,___,___

------- **User Category Name: ....** Word No:__________ Name:____________________________

1. Areas to TIME ON .... ___,___,___,___,___,___,___,___,___,___,___,___,___,___,___,___

1. Areas to ARM/RESET .... ___,___,___,___,___,___,___,___,___,___,___,___,___,___,___,___

2. Alt.1 Areas to TIME ON .... ___,___,___,___,___,___,___,___,___,___,___,___,___,___,___,___

2. Alt.1 Areas to ARM/RESET ... ___,___,___,___,___,___,___,___,___,___,___,___,___,___,___,___

3. Alt.2 Areas to TIME ON .... ___,___,___,___,___,___,___,___,___,___,___,___,___,___,___,___

3. Alt.2 Areas to ARM/RESET ... ___,___,___,___,___,___,___,___,___,___,___,___,___,___,___,___

Programming Sheet

RELAY MAPPING

(*Refer to:* Installer menu option 16)

				(Default)
Relay Number	__________	Mapped to event number:	__________	
		Timezone number:	__________	
		Active/Inactive during timezone:	ACTIVE/INACTIVE	(*Active*)
		Relay Inverted:	INVERTED/NON-INVERTED	(*Non-Inv*)
Relay Number	__________	Mapped to event number:	__________	
		Timezone number:	__________	
		Active/Inactive during timezone:	ACTIVE/INACTIVE	(*Active*)
		Relay Inverted:	INVERTED/NON-INVERTED	(*Non-Inv*)
Relay Number	__________	Mapped to event number:	__________	
		Timezone number:	__________	
		Active/Inactive during timezone:	ACTIVE/INACTIVE	(*Active*)
		Relay Inverted:	INVERTED/NON-INVERTED	(*Non-Inv*)
Relay Number	__________	Mapped to event number:	__________	
		Timezone number:	__________	
		Active/Inactive during timezone:	ACTIVE/INACTIVE	(*Active*)
		Relay Inverted:	INVERTED/NON-INVERTED	(*Non-Inv*)
Relay Number	__________	Mapped to event number:	__________	
		Timezone number:	__________	
		Active/Inactive during timezone:	ACTIVE/INACTIVE	(*Active*)
		Relay Inverted:	INVERTED/NON-INVERTED	(*Non-Inv*)
Relay Number	__________	Mapped to event number:	__________	
		Timezone number:	__________	
		Active/Inactive during timezone:	ACTIVE/INACTIVE	(*Active*)
		Relay Inverted:	INVERTED/NON-INVERTED	(*Non-Inv*)
Relay Number	__________	Mapped to event number:	__________	
		Timezone number:	__________	
		Active/Inactive during timezone:	ACTIVE/INACTIVE	(*Active*)
		Relay Inverted:	INVERTED/NON-INVERTED	(*Non-Inv*)
Relay Number	__________	Mapped to event number:	__________	
		Timezone number:	__________	
		Active/Inactive during timezone:	ACTIVE/INACTIVE	(*Active*)
		Relay Inverted:	INVERTED/NON-INVERTED	(*Non-Inv*)

ARM/DISARM TIMERS

(*Refer to:* Installer menu option 17)

Arm/Disarm Program No.

1	Timezone	_____	Alarm Group	_____
2	Timezone	_____	Alarm Group	_____
3	Timezone	_____	Alarm Group	_____
4	Timezone	_____	Alarm Group	_____
5	Timezone	_____	Alarm Group	_____
6	Timezone	_____	Alarm Group	_____
7	Timezone	_____	Alarm Group	_____
8	Timezone	_____	Alarm Group	_____
9	Timezone	_____	Alarm Group	_____
10	Timezone	_____	Alarm Group	_____
11	Timezone	_____	Alarm Group	_____
12	Timezone	_____	Alarm Group	_____
13	Timezone	_____	Alarm Group	_____
14	Timezone	_____	Alarm Group	_____
15	Timezone	_____	Alarm Group	_____
16	Timezone	_____	Alarm Group	_____

AREAS ASSIGNED TO VAULTS

(*Refer to:* Installer menu option 18)

Areas assigned to Vaults: _____,_____,_____,_____,_____,_____,_____,_____

_____,_____,_____,_____,_____,_____,_____,_____

SITE NUMBER

(*Refer to:* Installer menu option 20)

Site Code (A): ..... _____

Following options available in V8.08 or later:

Card Offset A: ..... + / - _____

Site Code B: ..... _____

Card Offset B: ..... + / - _____

AREAS LINKING

(*Refer to:* Installer menu option 19)

Area Number	Linked to areas
____________	*1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16*
____________	*1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16*
____________	*1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16*
____________	*1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16*
____________	*1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16*
____________	*1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16*
____________	*1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16*
____________	*1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16*
____________	*1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16*
____________	*1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16*
____________	*1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16*
____________	*1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16*
____________	*1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16*
____________	*1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16*
____________	*1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16*
____________	*1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16*
____________	*1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16*
____________	*1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16*
____________	*1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16*
____________	*1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16*

INPUT SHUNTS

(*Refer to:* Installer menu option 21)

			(Default)
Shunt Timer Number: __________ ..... Input Number	____________		
Relay Number	____________		
Shunt Time	____________	(seconds/minutes)	(0)
Shunt Warning Time	____________	(seconds/minutes)	(0)
Shunt Event Number	____________		
Shunt Warning Event Number ..	____________		
Door Open Command	YES/NO		(*No*)
Door Shunted in Access	YES/NO		(*No*)
Door Shunted in Secure	YES/NO		(*No*)
Cancel Door Event	YES/NO		(*No*)
Input holds event at 2 secs.	YES/NO		(*No*)
Entry/Exit Shunting	YES/NO		(*No*)
Report Door Open/Close	YES/NO		(*No*)

Shunt Timer Number: __________ ..... Input Number	____________		
Relay Number	____________		
Shunt Time	____________	(seconds/minutes)	(0)
Shunt Warning Time	____________	(seconds/minutes)	(0)
Shunt Event Number	____________		
Shunt Warning Event Number ..	____________		
Door Open Command	YES/NO		(*No*)
Door Shunted in Access	YES/NO		(*No*)
Door Shunted in Secure	YES/NO		(*No*)
Cancel Door Event	YES/NO		(*No*)
Input holds event at 2 secs.	YES/NO		(*No*)
Entry/Exit Shunting	YES/NO		(*No*)
Report Door Open/Close	YES/NO		(*No*)

Shunt Timer Number: __________ ..... Input Number	____________		
Relay Number	____________		
Shunt Time	____________	(seconds/minutes)	(0)
Shunt Warning Time	____________	(seconds/minutes)	(0)
Shunt Event Number	____________		
Shunt Warning Event Number ..	____________		
Door Open Command	YES/NO		(*No*)
Door Shunted in Access	YES/NO		(*No*)
Door Shunted in Secure	YES/NO		(*No*)
Cancel Door Event	YES/NO		(*No*)
Input holds event at 2 secs.	YES/NO		(*No*)
Entry/Exit Shunting	YES/NO		(*No*)
Report Door Open/Close	YES/NO		(*No*)

TIMEZONE TO FOLLOW RELAY

(*Refer to:* Installer menu option 22)

Timezone Number (26 - 41)	Relay Number
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

SECURITY PASSWORD

(*Refer to:* Installer menu option 29)

(Default)

Security Password: _____,_____,_____,_____,_____,_____,_____,_____,_____,_____ *(0000000000)*

(10 digits)

PRINTER OPTIONS

(*Refer to:* Installer menu option 30)

(Default)

Enable Real-time Printer: ..... YES/NO *(No)*

Print Alarm Events: ..... YES/NO *(No)*

Print Access Control Events: ..... YES/NO *(No)*

Dump Print Data Outside Timezone: ..... YES/NO *(No)*

Print During Timezone: ..... *Tz No.* _____ *(0)*

Printer Format Option: ..... *Number* _____ *(1)*

Format Options:

1	Epson	9600	7, e, 1
2	HPIIP	9600	8, n, 1
3	HPIIP	19200	8, n, 1
4	Epson	9600	7, o, 1
5	Epson	9600	7, n, 1
6	Epson	9600	8, n, 1
7	Epson	9600	8, o, 1
8	Epson	9600	8, e, 1

BATTERY TESTING

(*Refer to:* Installer menu option 31)

			(Default)
Testmode:	Disabled	YES/NO	(*Yes*)
	Every Working Day	YES/NO	
	Every Monday	YES/NO	
	First Monday of Month	YES/NO	

Start Battery Test : ..... *Time* ____:____ *(00:00)*

Run Battery Test For: ..... *Minutes* _____ *(5)*

CUSTOM MESSAGE

(*Refer to:* Installer menu option 32)

Custom message Text: _____ *(32 Characters max.)*

PROGRAM NEXT SERVICE

(*Refer to:* Installer menu option 33)

(Default)

Service Required At : .....*Date* _____/_____/_____ *(0/0/0)*

Day Mth Year

Service Text: _____ *(32 Characters max.)*

PROGRAM SUMMARY EVENT FLAGS

(*Refer to:* Installer menu option 34)

Mains Fail Event Number: *Number* _____

Low Battery Event Number: *Number* _____

Fuse Fail Event Number: *Number* _____

Tamper Event Number: *Number* _____

Siren Fail Event Number: *Number* _____

DGP Isolate Event Number: *Number* _____

DGP Offline Event Number: *Number* _____

RAS Offline Event Number: *Number* _____

Duress Event Number: *Number* _____

Film Out Event Number: *Number* _____

Report Fail Event Number: *Number* _____

Testmode Event Number: *Number* _____

All Secured Event Number: *Number* _____

Console Trigger Event Number: *Number* _____

PROGRAM MACRO LOGIC

(*Refer to:* Installer menu option 35)

(Default)

Macro Logic Program No: _____

Function: *(One only)*

Disable ..... YES/NO			*(Yes)*
Non-Timed ..... YES/NO			
On Pulse ..... YES/NO	Seconds / Minutes		
On Timed ..... YES/NO	Seconds / Minutes		
On Delay ..... YES/NO	Seconds / Minutes		
Off Delay ..... YES/NO	Seconds / Minutes		
Latching ..... YES/NO			
Time ..... _____	Seconds / Minutes		*(0)*

Activate:

Event Flag Number ..... _____
OR
Input Number ..... _____

Logic Equation:

Input 1	**Logic 1**	**Input 2**	**Logic 2**	**Input 3**	**Logic 3**	**Input 4**
RLY/EVENT		RLY/EVENT		RLY/EVENT		RLY/EVENT
*__ No._____	AND / OR	*__ No._____	AND / OR	*__ No._____	AND / OR	*__ No._____

* Enter "i" before input number if input is inverted logic.

(Default)

Macro Logic Program No: _____

Function: (One only)

Disable ..... YES/NO			*(Yes)*
Non-Timed ..... YES/NO			
On Pulse ..... YES/NO	Seconds / Minutes		
On Timed ..... YES/NO	Seconds / Minutes		
On Delay ..... YES/NO	Seconds / Minutes		
Off Delay ..... YES/NO	Seconds / Minutes		
Latching ..... YES/NO			
Time ..... _____	Seconds / Minutes		*(0)*

Activate:

Event Flag Number ..... _____
OR
Input Number ..... _____

Logic Equation:

Input 1	**Logic 1**	**Input 2**	**Logic 2**	**Input 3**	**Logic 3**	**Input 4**
RLY/EVENT		RLY/EVENT		RLY/EVENT		RLY/EVENT
*__ No._____	AND / OR	*__ No._____	AND / OR	*__ No._____	AND / OR	*__ No._____

* Enter "i" before input number if input is inverted logic.

NOTES

PROGRAM USERS

(*Refer to:* User menu option 14)

	Alarm Group	Door Group	Floor Group	PIN Code
User Number: .... ________				
Name:______________________________	___________	___________	___________	________________
User Number: .... ________				
Name:______________________________	___________	___________	___________	________________
User Number: .... ________				
Name:______________________________	___________	___________	___________	________________
User Number: .... ________				
Name:______________________________	___________	___________	___________	________________
User Number: .... ________				
Name:______________________________	___________	___________	___________	________________
User Number: .... ________				
Name:______________________________	___________	___________	___________	________________
User Number: .... ________				
Name:______________________________	___________	___________	___________	________________
User Number: .... ________				
Name:______________________________	___________	___________	___________	________________
User Number: .... ________				
Name:______________________________	___________	___________	___________	________________
User Number: .... ________				
Name:______________________________	___________	___________	___________	________________

DOOR GROUPS

(*Refer to:* User Menu option 20)

Door Group No: _____

Door No:	Timezone:	Door No:	Timezone
1	_____	33	_____
2	_____	34	_____
3	_____	35	_____
4	_____	36	_____
5	_____	37	_____
6	_____	38	_____
7	_____	39	_____
8	_____	40	_____
9	_____	41	_____
10	_____	42	_____
11	_____	43	_____
12	_____	44	_____
13	_____	45	_____
14	_____	46	_____
15	_____	47	_____
16	_____	48	_____
17	_____	49	_____
18	_____	50	_____
19	_____	51	_____
20	_____	52	_____
21	_____	53	_____
22	_____	54	_____
23	_____	55	_____
24	_____	56	_____
25	_____	57	_____
26	_____	58	_____
27	_____	59	_____
28	_____	60	_____
29	_____	61	_____
30	_____	62	_____
31	_____	63	_____
32	_____	64	_____

* = Disabled

Door Group No: _____

Door No:	Timezone:	Door No:	Timezone
1	_____	33	_____
2	_____	34	_____
3	_____	35	_____
4	_____	36	_____
5	_____	37	_____
6	_____	38	_____
7	_____	39	_____
8	_____	40	_____
9	_____	41	_____
10	_____	42	_____
11	_____	43	_____
12	_____	44	_____
13	_____	45	_____
14	_____	46	_____
15	_____	47	_____
16	_____	48	_____
17	_____	49	_____
18	_____	50	_____
19	_____	51	_____
20	_____	52	_____
21	_____	53	_____
22	_____	54	_____
23	_____	55	_____
24	_____	56	_____
25	_____	57	_____
26	_____	58	_____
27	_____	59	_____
28	_____	60	_____
29	_____	61	_____
30	_____	62	_____
31	_____	63	_____
32	_____	64	_____

* = Disabled

FLOOR GROUPS

(*Refer to:* User Menu option 20)

Floor Group No: _____

Floor No:	Timezone:	Floor No:	Timezone
1		33	
2		34	
3		35	
4		36	
5		37	
6		38	
7		39	
8		40	
9		41	
10		42	
11		43	
12		44	
13		45	
14		46	
15		47	
16		48	
17		49	
18		50	
19		51	
20		52	
21		53	
22		54	
23		55	
24		56	
25		57	
26		58	
27		59	
28		60	
29		61	
30		62	
31		63	
32		64	

* = Disabled

Floor Group No: _____

Floor No:	Timezone:	Floor No:	Timezone
1		33	
2		34	
3		35	
4		36	
5		37	
6		38	
7		39	
8		40	
9		41	
10		42	
11		43	
12		44	
13		45	
14		46	
15		47	
16		48	
17		49	
18		50	
19		51	
20		52	
21		53	
22		54	
23		55	
24		56	
25		57	
26		58	
27		59	
28		60	
29		61	
30		62	
31		63	
32		64	

* = Disabled

HOLIDAYS
(*Refer to:* User Menu option 21)

Holiday Number: .... *Number* __________ .... *Date* ________/________/_____________
Day *Mth* *Year*

Holiday Number: .... *Number* __________ .... *Date* ________/________/_____________
Day *Mth* *Year*

Holiday Number: .... *Number* __________ .... *Date* ________/________/_____________
Day *Mth* *Year*

Holiday Number: .... *Number* __________ .... *Date* ________/________/_____________
Day *Mth* *Year*

Holiday Number: .... *Number* __________ .... *Date* ________/________/_____________
Day *Mth* *Year*

Holiday Number: .... *Number* __________ .... *Date* ________/________/_____________
Day *Mth* *Year*

Holiday Number: .... *Number* __________ .... *Date* ________/________/_____________
Day *Mth* *Year*

Holiday Number: .... *Number* __________ .... *Date* ________/________/_____________
Day *Mth* *Year*

Holiday Number: .... *Number* __________ .... *Date* ________/________/_____________
Day *Mth* *Year*

Holiday Number: .... *Number* __________ .... *Date* ________/________/_____________
Day *Mth* *Year*

Holiday Number: .... *Number* __________ .... *Date* ________/________/_____________
Day *Mth* *Year*

Holiday Number: .... *Number* __________ .... *Date* ________/________/_____________
Day *Mth* *Year*

The Challenger is Designed and Manufactured by:

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