Challenger Version 8 Basic Alarm System.

AN1

This document provides details of the programming requirements for getting a basic alarm system that uses PIN codes to arm/disarm/reset etc., up and running. A programming flow chart and details of the factory default programming settings are provided at the end of this document for reference.

Accessing the Install Menu:

To display menu option 19 (Install Menu) in 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.

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>** then **0** (Select all areas) **<ENTER>**

To access the Install Menu:

<MENU> **4 3 4 6** (Master PIN code) **<ENTER>** Accesses User Menu.
then **1 9** **<ENTER>** Selects Install Menu.

1. Plan the System and fill out the programming sheets.

Blank programming sheets are found at the rear of the Version 8 Programming guide.

In a basic alarm system you will need to consider the following Installer Menu databases:
1.   Input Database
2.   Area Database
3.   Arming Stations
4.   Data Gathering Panels
5.   Alarm Groups
6.   Timers
7.   System Options
9.   Communication Options
10.   Text Words
13.   Time Zones

2. Reset the system to the factory default. This will ensure that all programming settings will be as per the stated defaults.

Note for Installers programming the system using the Upload/Download software.

a)Create and/or Open a New Challenger for this installation (If not already done).

b)Perform the default procedure at the Master Arming Station as described in this step.

c)After connecting, UPLOAD Installer and User Databases, so that the new Challenger on the computer is programmed with the default settings.

If this is not done, downloading to the Challenger panel will erase any default settings that have not been programmed on the computer.

The system is reset from-
Installer Menu Option 14: - Reset Defaults

From the Install Menu select Option 14.

1 4 (Menu Option) **<ENTER>**

9 9 (All) **<ENTER>**

Wait for all area LEDs to illuminate.

To return to normal display:-

<MENU> <ENTER>

3.   Program the SYSTEM OPTIONS to specify general system operational parameters.

Following is a list of the Options relevant to a basic alarm system which you may wish to select or change. Disregard other options at this stage.

System Test Mode
- **0 =   No automatic testing.**
- 1 =   Enable automatic Access test and Secure test.
- 2 =   Enable automatic Secure test.
- 3 =   Enable automatic Access test.

Input Tamper Monitoring
- **YES   Open or Short circuit on input generates Tamper Alarm**
- NO   Tamper not indicated. Open or Short cct treated as Unsealed condition.

Display One Input at a Time
- **YES   LCD will display details of one input at a time**
- NO   LCD displays input details as a list of numbers to select for details.

Name File
- **YES   User's names may be programmed when entering their details. (PIN code etc)**
- NO   User's names will not be able to be entered.

System Alarms Set Siren & Strobe
- YES   The cabinet tamper inputs will activate the Siren and Strobe events.
- **NO   Cabinet tampers will report only**

Latching System Alarms
(RAS/DGP offline, Mains/fuse fail, low batt, cabinet/siren tamper etc)
- YES   System alarms latch and require code to reset.
- **NO   System alarms automatically reset.**

Disable Area LEDs that Don't Report
- YES   Disables LEDs for areas not programmed to report Open/Close.
- **NO   All area LEDs enabled.**

SYSTEM OPTIONS are programmed in Installer Menu Option 7: - System Options.

From the Install Menu select Option 7.

7 (Menu Option)   **<ENTER>**

Use the **<ENTER>** key to scroll through the available options.

? (Testmode Number)   **<ENTER>**

Check setting on LCD then **<ENTER>**

<*> (Toggle setting between YES & NO) **<ENTER>**

Check setting on LCD then **<ENTER>**

<*> (Toggle setting between YES & NO) **<ENTER>**

Check setting on LCD then **<ENTER>**

<*> (Toggle setting between YES & NO) **<ENTER>**

Check setting on LCD then **<ENTER>**

<*> (Toggle setting between YES & NO) **<ENTER>**

Check setting on LCD then **<ENTER>**

<*> (Toggle setting between YES & NO) **<ENTER>**

Check setting on LCD then **<ENTER>**

<*> (Toggle setting between YES & NO) **<ENTER>**

Check setting on LCD then **<ENTER>**

Disable Code From Displaying
    YES   PIN codes not displayed as they are entered when programming users.
    NO   **PIN codes will be displayed as they are entered.**

<*> (Toggle setting between YES & NO) **<ENTER>**

Check setting on LCD then **<ENTER>**

Disable Flashing Area LEDs
    YES   The Area LEDs will NOT flash when there is an alarm.
    NO   **Area LEDs will flash to indicate the area an alarm has occured in.**

<*> (Toggle setting between YES & NO) **<ENTER>**

Check setting on LCD then **<ENTER>**

Display Alarms Instantly on LCD
    YES   Detail of current alarm is displayed instantly on LCD
    NO   **<ENTER> <ENTER> must be used to view details of alarms.**

<*> (Toggle setting between YES & NO) **<ENTER>**

Check setting on LCD then **<ENTER>**

Sirens Only After Report Fail
    YES   Siren Events will be disabled unless Challenger has failed to report.
    NO   **Siren events operate normally.**

<*> (Toggle setting between YES & NO) **<ENTER>**

Check setting on LCD then **<ENTER>**

4.   Program any TEXT WORDS required for inputs, area names, alarm group names, etc. that are not already provided in the extensive word library.

Up to 100 custom words can be added to the library.

<u>TEXT WORDS</u> are programmed in Installer Menu Option 10: - Text Words.

From the Install Menu select Option 10.

1 0 (Menu Option) **<ENTER>**

<*>   Scroll through the list of programmable words.

Select a word number to program or change.

??? (Word reference number) **<ENTER>**

Use the keypad text option to enter each character of the word.

? (Number/letter) **<ENTER>**

<*>   Save & display the word.

<*>   Exit to word number selection display.

5. **Program any TIMEZONES that may be required in order to limit the functions of particular Users or Arming Stations to specific time periods.**

TIMEZONES 1 to 24

There are 24 "Real-time" timezones in the system, based on the built-in real-time clock.

Each Timezone may have up to 4 segments, each programmed with a Start time, End time and Days.

e.g.

TIMEZONE 1:	RETAIL COUNTER STAFF	
	(Normal trading hours)	
	START	END
Tz 1.1	08:30	18:00
_ Mo Tu We Th _ _ _		
Tz 1.2	08:30	21:30
_ _ _ _ _ Fri _ _		
Tz 1.3	08:30	13:00
_ _ _ _ _ _ Sat _		
Tz 1.4	00:00	00:00
_ _ _ _ _ _ _ _		

TIMEZONE 2:	NIGHT PATROL	
	(7.30 PM to 8:30 AM)	
	START	END
Tz 1.1	19:30	24:00
Su Mo Tu We Th Fr Sa Hol		
Tz 1.2	00:00	08:30
Su Mo Tu We Th Fr Sa Hol		
Tz 1.3	00:00	00:00
_ _ _ _ _ _ _ _		
Tz 1.4	00:00	00:00
_ _ _ _ _ _ _ _		

Timezone 0 is always valid 24 hours every day. It may be used wherever a 24 hr Timezone is required.

TIMEZONES 1 to 24 are programmed in Installer Menu Option 13.

From the Install Menu select Option 13.

1 3 (Menu Option)   **<ENTER>**

Select a Timezone number to program.

?? (Timezone number)   **<ENTER>**

Program the Start and End times for segment 1

?? (Start Hours)	**<ENTER>**
?? (Start Minutes)	**<ENTER>**
?? (End Hours)	**<ENTER>**
?? (End Minutes)	**<ENTER>**

and/or
Check details on LCD then **<ENTER>**

Specify the Days for segment 1.

? (Day) **<ENTER>** For each day required

1	Sunday
2	Monday
3	Tuesday
4	Wednesday
5	Thursday
6	Friday
7	Saturday
8	Holiday

and/or
Check details on LCD then **<ENTER>**

Repeat procedure from "#" for segments 2 to 4.

<ENTER>   Exit to Timezone number selection display.

6.   Program the AREA DATABASE for the area/s you wish to use in the system.

The areas determine how the system is partitioned, and therefore provides the ability to limit users to performing functions only in the area/s relevant to their role.

The Area Database enables certain timing and event parameters to be specified for each individual area used in the system.

AREA DATABASE PARAMETERS are programmed in Installer Menu Option 2.

From the Install Menu select Option 2.

2 (Menu Option)   **<ENTER>**

Select an Area number to program.

?? (Area number)   **<ENTER>**

Defining and NAMING YOUR AREA/S will also determine which area/s each of the individual inputs will be assigned to later.
Areas may be physical areas relating to a specific room, space, etc. or they may be functional areas relating to a specific type of alarm etc.

Specify a name for the area.

??? (Text word number)   **<ENTER>**

and/or
Check details on LCD then **<ENTER>**

e.g	Area 1	Perimeter Doors
	Area 2	Reception
	Area 3	Office
	Area 4	Warehouse
	Area 5	Plant Room
	Area 6	Smoke Alarms
	Area 7	Duress Buttons
	Area 8	Refrigeration

EXIT TIME and ENTRY TIME is specified for each individual area.

Exit time allows for Inputs programmed as Entry/Exit types to be unsealed during the specified time after the area is armed, without causing an alarm

Entry time allows for Inputs programmed as Entry/Exit types to be unsealed without causing an alarm for the specified time before the area is disarmed.

Program Exit time.

?? (Exit time in minutes)   **<ENTER>**

and/or
Check details on LCD then **<ENTER>**

Program Entry time.

?? (Entry time in minutes)   **<ENTER>**

and/or
Check details on LCD then **<ENTER>**

AREA EVENT FLAGS can be programmed to provide an indication of a particular condition that exists in the area.

The Siren Event Flag is already set to "1" by default and does not need to be changed unless you wish to have different sirens activated for each area.
(See AN6 - Programming Relays for details)

?? (Event Flag Number)   **<ENTER>**

and/or
Check details on LCD then **<ENTER>** to move on to next Event Flag display.

Other Event Flags may be programmed if required.
They are:

	Area Accessed	Inputs Unsealed
	Inputs Isolated	Secure Alarm
	Access Alarm	Local Alarm
	Exit Timer	Entry timer
	Warning	Camera
	Pre Alarm	

(See V8 Programming Guide for details)

7. Program the ALARM GROUPS required for Users and any extra Arming Stations in your system.

An Alarm Group defines the area/s, Alarm control functions and User menu options available to the User or Arming Station to which it is assigned.

Alarm Groups 1 to 10 are Hard Coded and cannot be modified. They are intended for LCD Arming Stations and the Master Installer Code.

Alarm Groups 11 to 13 are "All Area Masters" with different levels of User Menu Access.

Alarm Groups 14 to 29 are intended for Arming Stations that control a single Area and offer a low level of User Menu Access.
Alm Grp 14 = Area 1
Alm Grp 15 = Area 2 etc.

(Refer to V8 Programming Guide:- Appendix 1, Table 4 for more specific details)

Alarm Groups 30 to 138 have no default programming and are intended to be programmed for Users or Arming stations according to the system requirements.

Program an appropriate name for the Alarm Group

Specify the Area/s assigned to this Alarm Group.

Specify whether the Alarm Group is going to be assigned to Users.

Specify the Alarm Sytem Control functions and features that this Alarm Group will allow (Arm, Disarm, Reset etc.)

Alarm System Control
    YES Alarm System Control functions will be allowed, depending on other settings specified in the Alarm Grp.
    NO   No Alarm System Control functions will be allowed, regardless of other settings in the Alarm Group

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ALARM GROUPS are programmed in Installer Menu Option 5.

From the Install Menu select Option 5.

5 (Menu Option) **<ENTER>**

Select an Alarm Group to program.

?? (Alarm Group number) **<ENTER>**

??? (Text word number) **<ENTER>**

and/or
Check details on LCD then **<ENTER>**

?? (Area number) **<ENTER>** For each area req'd.

and/or
Check details on LCD then **<ENTER>**

<*> (Toggle setting between YES & NO) **<ENTER>**

Check setting on LCD then **<ENTER>**

<*> (Toggle setting between YES & NO) **<ENTER>**

Check setting on LCD then **<ENTER>**

Prompt With List of Areas
    YES   Areas assigned will be displayed when arming/disarming to enable selection of particular area/s.
    NO   Arm/Disarm function will be performed without areas being displayed.

<*> (Toggle setting between YES & NO) **<ENTER>**

Check setting on LCD then **<ENTER>**

Can User Activate Keyboard Duress
    YES   Duress Code will activate Keypad Duress Alarm.

<*> (Toggle setting between YES & NO) **<ENTER>**

Check setting on LCD then **<ENTER>**

Reset System Alarms
    YES   If "Latching System Alarms" was set to YES in the System Options, setting this option to YES will allow a user to reset those alarms.

<*> (Toggle setting between YES & NO) **<ENTER>**

Check setting on LCD then **<ENTER>**

Disable Auto De-isolate
    YES   Prevents certain users (eg cleaners) from being able to automatically de-isolate inputs in the area they disarm.

<*> (Toggle setting between YES & NO) **<ENTER>**

Check setting on LCD then **<ENTER>**

Arm & Reset Only
Disarm Only
Alarm Reset Only
    YES   Setting one of these options to YES will restrict the level of Alarm System Control as specified.

<*> (Toggle setting between YES & NO) **<ENTER>**

Check setting on LCD then **<ENTER>**

Auto Isolate Unsealed Inputs
    YES   Allows unsealed inputs to auto isolate when arming to prevent them causing alarms.

<*> (Toggle setting between YES & NO) **<ENTER>**

Check setting on LCD then **<ENTER>**

Forced Arming When Unsealed Inputs
    YES   Area/s will arm regardless of any unsealed inputs which may subsequently cause an alarm.

<*> (Toggle setting between YES & NO) **<ENTER>**

Check setting on LCD then **<ENTER>**

Prevent Forced Disarming
    YES   Area/s cannot be disarmed if there are unsealed inputs. (Access alarms)

<*> (Toggle setting between YES & NO) **<ENTER>**

Check setting on LCD then **<ENTER>**

Modem Access
    YES   User is allowed Access via VT100 terminal in dial-up connection.

<*> (Toggle setting between YES & NO) **<ENTER>**

Check setting on LCD then **<ENTER>**

User Categories
(See AN16 - The Timed Disarm Functions for details on the programming of User Category functions)

Prevent Arming If Category Not Timing
(See AN16 - The Timed Disarm Functions for details on the programming of User Category functions)

0   To move on to the User Menu List.

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Specify the USER MENU OPTIONS that this Alarm
Group will allow Access to.

User Menu Options.

Set YES or NO for each option in the list as
required.

<*> (Toggle setting between YES & NO) **<ENTER>**

Check setting on LCD then **<ENTER>**

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

0   To move on to the Timezone assignment.

NOTE: It is most unwise to allow any client or end
user etc. to have access to Option 19:- Install Menu!

(See the Challenger Version 8 User Guide for
specific details on these User Menu options)

An Alarm Group can be restricted to be valid only
during a specific time period. To achieve this a
TIMEZONE is assigned to the Alarm Group.

"No Timezone" specifies the Alarm Group is
ALWAYS valid.

Specify a Timezone if required.

?? (Timezone number) **<ENTER>**

and/or
Check details on LCD then **<ENTER>**

If a Timezone restriction has been specified for an
Alarm Group, you may assign an ALTERNATE
ALARM GROUP that will take effect when the
Timezone on this Alarm Group is not valid.

You must then program the alternate Alarm Group
to specify the new Area/s, functions, options etc.
that will be relevant.

Specify an alternate Alarm Group if required.

?? (Alarm Group number) **<ENTER>**

and/or
Check details on LCD then **<ENTER>**

8.   If your system has more than 16 inputs, then you will need to Program DATA GATHERING PANELS (DGPs) into the system.

<u>DATA GATHERING PANELS</u> are programmed in Installer Menu Option 4.

From the Install Menu select Option 4.

4 (Menu Option)   **<ENTER>**

Specify the DGP number/s to be polled by The Challenger panel.

If the DGP is not yet powered up and addressed, polling the DGP will cause a "DGP Fail" condition. It is recommended that DGPs not be programmed to be polled until they are actually powered and addressed correctly.
(See TS0820 / TS0823 & TS0822 / TS0824 Installation guides for details)

Enter the number/s of the DGPs to be polled.

?? (DGP number) **<ENTER>** For each DGP reqd.

and/or
Check details on LCD then **<ENTER>**

Specify the DGP Type for each DGP to be polled. This is required so that the Challenger Panel can distinguish between "Standard" DGPs and "Intelligent Access Controller" DGPs.

DGP Type
        0   Standard
        1   Door Controller
        2   Lift Controller

This Document assumes only "Standard" DGPs are being used in a basic alarm system.

For Details on extra programming requirements for Door Controller and Lift Controller DGPs see:
AN101 onwards and AN201 onwards, or
Access Controller Programming Guides.

Specify the type of each of the DGPs to be polled.

?? (DGP number) **<ENTER>**

? (DGP Type number) **<ENTER>**

and/or
Check details on LCD then **<ENTER>**

This procedure is repeated for each DGP in the system.

9.   Program the INPUTS.

Now that area/s and DGPs have been defined, the Input Database can be programmed.

Inputs 1 to 16 have default settings progammed as follows: Type 2. Secure Alarm
                 Assigned to Area 1
                 YES   Activate Siren
                 YES   Activate Event Flag 2 (Strobe)

INPUTS are programmed in Installer Menu Option 1.

From the Install Menu select Option 1.

1 (Menu Option)   **<ENTER>**

Select an INPUT NUMBER from 1 to 256 to be programmed. The input number is determined by the physical location of the input. i.e. The address of the DGP that the input is connected to.

Enter the number of the input to be programmed.

?? (Input number)   **<ENTER>**

PANEL	1-16	DGP 8	129-144
DGP 1	17-32	DGP 9	145-160
DGP 2	33-48	DGP 10	161-176
DGP 3	49-64	DGP 11	177-192
DGP 4	65-80	DGP 12	193-208
DGP 5	81-96	DGP 13	209-224
DGP 6	97-112	DGP 14	225-240
DGP 7	113-128	DGP 15	241-256

Note that when a DGP has more than 16 inputs (i.e. 2 or 3 expansion modules fitted), the extra input numbers are taken from the next DGP address and the next DGP address cannot be used or polled in the system.

Program a suitably descriptive INPUT NAME, using words from the text word library (including any custom text words you have programmed) and numerical variables.

??? (Text word 1 number)   **<ENTER>**
??? (Text variable 1 number)   **<ENTER>**

??? (Text word 2 number)   **<ENTER>**
??? (Text variable 2 number)   **<ENTER>**

e.g.   Building 3 Area 2 Office 5 Door 2
              Perimeter South Gate 3
              Admin Training Room 2
              Rear Fire Door

??? (Text word 3 number)   **<ENTER>**
??? (Text variable 3 number)   **<ENTER>**

??? (Text word 4 number)   **<ENTER>**
??? (Text variable 4 number)   **<ENTER>**

and/or
Check details on LCD then **<ENTER>**

Select an appropriate INPUT TYPE to suit the purpose of the input.
e.g.   Type 1:   Access Alarm
                 (Holdup button)
        Type 2:   Secure Alarm
                 (PIRs, Int.Doors)
        Type 3:   Entry Exit
                 (Front Door)
        Type 4:   Ent/Exit Handover
                 (PIR just inside front door)
        Type 5:   24 Hour
                 (Equipment tampers)

Specify the Input Type required.

?? (Input Type number)   **<ENTER>**

and/or
Check details on LCD then **<ENTER>**

There are 58 input types available.
(See AN2 - Input Types and their uses, or
Challenger Vers. 8 Programming guide for details)

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If the Panel is going to report to the Remote
Monitoring Station using the **Contact ID** format or
Tecom Direct Line format, then it is necessary
to program a <u>REPORT ID</u> for each input.

It will only be necessary to change the default
setting if the report ID "25-140, General Alarm"
is not suitable.

Below is a list of common Report IDs suitable for
a basic alarm system.
(See Challenger Vers 8 Programming Guide for
a complete list)

Type. Contact ID Message.

1	100	Medical Alarm	Personal Emergency
4	110	Fire Alarm	Fire alarm
5	111	Fire Alarm	Smoke detector
13	120	Panic Alarm	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
26	143	General Alarm	Exp. module fail
27	144	General Alarm	Sensor tamper
29	150	24 Hour Non-Burg	24 Hr. Non-Burglary

Specify the Report ID required.

?? (Report ID number) **<ENTER>**

and/or
Check details on LCD then **<ENTER>**

To relate the input to particular area/s you must
program the <u>AREA ASSIGNMENT.</u>
An input **must** have at least one area assigned.

Where there is more than one area assigned, the
input is regarded as being in access if one or more
of the areas assigned is disarmed, and in secure
only if all the areas assigned are armed.

Some Input Types have an alarm group assigned
instead of area/s.
These are Types 6, 31, 34 & 35 which are designed
for keyswitches to arm/disarm areas.
(Programming details for these types of inputs are
provided in AN12 - Alarm control with keyswitches)

Enter the number/s of the Area/s to be assigned.

?? (Area number) **<ENTER>** For each Area reqd.

and/or
Check details on LCD then **<ENTER>**

If you selected one of the Test Options when programming the System Options, or if the user wishes to use the Access Test option in the User Menu then you may need to program a TEST TYPE for certain inputs.

0   No testing required:
    e.g. Duress button which is active during test mode, siren cover, panel tamper.

1   Test during access test:
    The input will be disabled during any access test on areas assigned to it. e.g. Holdup button

2   Test during secure test and when in access:
    Included in the secure test. If activated during access mode, it is considered tested and will not be tested again when the secure test is done. e.g. PIRs, Doors.

3   Test during secure test:
    If an input is programmed with test type 3 it will be included in the secure test.
    e.g. Any device which needs to be auto tested.

4   Set Event Flag 13 during Access test:
    (See Challenger V8 Programming guide)
5   Set Pre-Alarm Event Flag during Access test:
    (See Challenger V8 Programming guide)

Enter the Test type required.

? (Test type number) **<ENTER>**

and/or
Check details on LCD then **<ENTER>**

If you require the input to activate the Siren, Strobe, or camera outputs, or if you require the input to activate a relay etc. then it is necessary to assign the appropriate EVENT FLAGS to the input.

If the input is to activate a unique event flag, the "Selected Event Flag" must be programmed.

?? (Event flag number) **<ENTER>**

and/or
Check details on LCD then **<ENTER>**

If the input is to activate an event flag common to other inputs, one or more of the "Pre-defined" Event Flags are selected.

Siren (Event Flag no. assigned in Area D'base)
Console Warning (No Event Flag number required)
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 (Event Flag no. assigned in Area D'base)

<*> (Toggle setting between YES & NO) **<ENTER>**

and/or
Check setting on LCD then **<ENTER>**

"Siren" and "Event 2 Secure Alarm" are typically set to YES to activate the Siren and Strobe output/s.

If you require all of the Event Flags assigned to the input to be active 24 Hours whenever the input is in alarm, then <u>MAKE ALL EVENTS 24 HOUR</u> must be set to YES.

This could be required if the client wanted the siren and strobe to activate during the day if the input wiring was tampered or damaged.

<*> (Toggle setting between YES & NO) **<ENTER>**

and/or
Check setting on LCD then **<ENTER>**

If you require an event to be recorded in history and printed (If printer connected) whenever the input unseals or reseals regardless of alarm condition, then the option <u>PRINT INPUT WHEN UNSEALED</u> must be set to YES.

This may be required if the client wishes to monitor the activity through a particular door.

<*> (Toggle setting between YES & NO) **<ENTER>**

and/or
Check setting on LCD then **<ENTER>**

10.   If your system requires more than 1 Arming Station, you will need to Program ARMING STATION DETAILS.

<u>ARMING STATIONS</u> are programmed in Installer Menu Option 3.

From the Install Menu select Option 3.

3 (Menu Option) **<ENTER>**

Specify the Arming Station (RAS) number/s to be polled by The Challenger panel.

If the Arming Station is not yet powered up and addressed, polling the RAS will cause a "RAS Fail" condition.
It is recommended that RASs not be programmed to be polled until they are actually powered and addressed correctly.
(See TS0801 / TS0003 / TS0804 etc. Installation guides for details)

Enter the number/s of the RASs to be polled.

?? (RAS number) **<ENTER>** For each RAS reqd.

and/or
Check details on LCD then **<ENTER>**

Specify the details for each RAS to be polled.

Select the RAS to be programmed.

?? (RAS number) **<ENTER>**

Program the relevant options for each Arming Station. Options not relevant to a basic alarm system are not described here and should be disregarded at this stage.

Area Alarm Group
    The Area Alarm Group defines the area/s, alarm control and user menu options available at this arming station.
    Assign an appropriate alarm group from the factory defaults or the alarm groups you have programmed specially for the system.

?? (Alarm Group number) **<ENTER>**

and/or
Check details on LCD then **<ENTER>**

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Menu Alarm Group
    The Menu Alarm Group defines the user
menu options available at this arming station
if the requirements are different from those
specified in the Area Alarm Group.
(The Menu Alarm Group is typically the
same as the Area Alarm Group)

?? (Alarm Group number) **<ENTER>**

and/or
Check details on LCD then **<ENTER>**

LCD Arming Station
    Set to YES if the Arming Station has a
Liquid Crystal Display (LCD) fitted.

<*> (Toggle setting between YES & NO) **<ENTER>**

and/or
Check setting on LCD then **<ENTER>**

Toggle Keyboard Control
    It is recommended that this option be left at
NO and the client instructed to perform
alarm control functions with the ON & OFF
keys.

If the client wishes to use the ENTER key for
Arming & Disarming instead of the ON &
OFF keys, then this option is set to YES.

<*> (Toggle setting between YES & NO) **<ENTER>**

and/or
Check setting on LCD then **<ENTER>**

This procedure is repeated for each Arming Station
in the system.

11.　Program the TIMERS. There are several timing functions which may need the time period changed from the default values.

Program the relevant timers. Options not relevant to a basic alarm system are not described here and should be disregarded at this stage.

<u>TIMERS</u> are programmed in Installer Menu Option 6.

From the Install Menu select Option 6.

6 (Menu Option)　**<ENTER>**

User Category Times
(See AN16 or Vers 8 Programming guide)

Access Test Time (minutes)

Secure Test Time (minutes)

Warning Time　(minutes)
　　　-before a test procedure expires

Delayed Holdup Time　(seconds)
　　　-Time before delayed holdup input types (8, 11, 22 & 40) report to the monitoring station.

Suspicion Time　(seconds)
　　　-Time that cameras continue to operate after suspicion type i/p (7, 40 & 47) is resealed.

Service Time
(See Vers 8 Programming guide and User guide)

Local Alarm Reminder Time　(minutes)
　　　-Time before local alarm re-alarms if left unsealed after being acknowledged. (I/p types 15, 21 etc)

Individual Input Test Time　(minutes)
　　　-Max time allowed for test on an individual input.　(Relates to User Menu Option 12)

Door Access Time　(seconds)
(See Vers 8 Programming guide and other AN documents for details)

Tester Event Time　(seconds)
　　　-Time that the tester event activates during the secure test.　Event flag 16 activates for half this time to enable a relay to be used for testing seismic & glass break detectors etc.

Siren Time　(minutes)
　　　-Time that the Siren Event Flags (specified in the area database/s) are activated.

Mains Fail Time　(minutes)
　　　-Time before the system will report Mains Fail to the remote monitoring station.

?? (Time period)　**<ENTER>**

and/or
Check details on LCD then **<ENTER>**

12. To enable the Challenger system to report alarms etc. to the remote monitoring station, program the COMMUNICATION OPTIONS.

Reporting Formats:
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 AN22 - Radio Communications or Vers 8 Programming guide Issue IV or later.

COMMUNICATION OPTIONS are programmed in Installer Menu Option 9.

From the Install Menu select Option 9.

9 (Menu Option)   **<ENTER>**

OPTIONS COMMON TO ALL FORMATS

AREAS TO REPORT OPEN/CLOSE
     Specify the area/s that you wish to report Open/Close on.
     (See also "Common Open/Close)

?? (Area number) **<ENTER>** For each area reqd.

and/or
Check details on LCD then **<ENTER>**

MAXIMUM EVENTS IN COMMS BUFFER
     If it is necessary to limit the number of events that would be reported if the system detects a high level of activity in a short period of time, then you may specify the maximum number of events that will be stored.

?? (Number of events) **<ENTER>**

and/or
Check details on LCD then **<ENTER>**

MULTI BREAK ALARMS
     If you require an input to report multiple alarms if it alarms more than once before being reset by a user, this option is set to YES.
     (Not applicable to Ext Highspeed formats)

<*> (Toggle setting between YES & NO) **<ENTER>**

and/or
Check setting on LCD then **<ENTER>**

MULTI BREAK RESTORALS
     If you require a report to be sent each time a "Multi break" alarm reseals, this option is set to YES.

<*> (Toggle setting between YES & NO) **<ENTER>**

and/or
Check setting on LCD then **<ENTER>**

COMMON OPEN/CLOSE REPORTING
     If you require the system to report only the first area to Open and the last to Close, this option is set to YES.
     If you want each individual area to report Open/Close, leave this option at NO.

<*> (Toggle setting between YES & NO) **<ENTER>**

and/or
Check setting on LCD then **<ENTER>**

OPTIONS FOR DIALLER FORMATS
Formats 1, 2, 3, 4, 7 & 8

TELEPHONE NUMBER/S

PABX Access Code.
    This is required if a code is required to gain
    access to an exchange line via a PABX.

Telephone Number 1.
    The first telephone number used to
    communicate to the remote monitoring station.

Telephone Number 2.
    The second telephone number used if three
    attempts on the first number fail to connect.

Service Number
Callback Number
Computer Number
(See Vers 8 Programming guide)

ACCOUNT NUMBER/S
    System Account. Optional account no. if
    system alarms are to be reported separately.
    Applicable to DTMF formats (1 to 4) only.

    Area 1 Account. MUST be programmed.
    4 digit account number for DTMF formats, or
    6 digit account no. for TECOM dialler formats.

    Area 2 to Area 16 Account. Optional account
    numbers if alarms and Open/Close reports are
    to be sent on a separate account number for
    each area.
    Applicable to DTMF formats (1 to 4) only.

???????? (Phone no. or access code) **<ENTER>**

and/or
Check details on LCD then **<ENTER>**

???? (Account number) **<ENTER>**

and/or
Check details on LCD then **<ENTER>**

FORMAT SELECTION
    For Dialler Formats there are 6 format selection
    options. Options 1, 2, 3, 4, 7, & 8 as listed on
    the previous page.

? (Format number) **<ENTER>**

and/or
Check details on LCD then **<ENTER>**

TEST CALL OPTION
    There are 5 options for specifying when the
    system will activate a periodic test call to the
    remote monitoring station.
    0   No Test Calls
    1   Test Call once a day
    2   Test Call once a week
    3   Test Call once a day if no event reported
    4   Test Call once a week if no event reported

? (Option number) **<ENTER>**

and/or
Check details on LCD then **<ENTER>**

TEST CALL TIME
    If a test call option is selected you must specify
    the time of day when it will occur.

?? (Test Call time hours) **<ENTER>**

?? (Test Call time minutes) **<ENTER>**

and/or
Check details on LCD then **<ENTER>**

TONE DIALLING
In the unlikely event that the panel is installed where the exchange will only accept decadic (pulse) dialling, this option would be set to NO.

<*> (Toggle setting between YES & NO) **<ENTER>**

and/or
Check setting on LCD then **<ENTER>**

DISABLE ISOLATES FROM TRIGGERING DIALLER
If you require Input Isolates to be buffered and reported with the next event that triggers the dialler to report, set this option to YES.
Leaving this option set to NO will mean that input Isolates will instantly trigger the dialler.

<*> (Toggle setting between YES & NO) **<ENTER>**

and/or
Check setting on LCD then **<ENTER>**

ENABLE PSTN LINE FAULT MONITOR
If you require the Challenger to continuosly monitor the integrity of the Dialler (Exchange) line, set this option to YES.
(MUST be set to NO in Version 7 panels)

<*> (Toggle setting between YES & NO) **<ENTER>**

and/or
Check setting on LCD then **<ENTER>**

OPTIONS FOR SECURITEL FORMATS
Formats 5 & 6

FORMAT SELECTION
For Securitel Formats there are 2 format selection options. Options 5 & 6 as listed previously.

? (Format number) **<ENTER>**

and/or
Check details on LCD then **<ENTER>**

SECURITEL HARD ID
The hard ID must be entered for Securitel formats to identify the panel to the remote monitoring station.
The hard ID is a 4 digit number supplied by the monitoring company.

???? (Hard ID) **<ENTER>**

and/or
Check details on LCD then **<ENTER>**

OPTIONS FOR DIRECT LINE FORMATS
Formats 9, 10 & 11

FORMAT SELECTION

For Direct Line Formats there are 3 format
selection options. Options 9, 10 & 11 as listed
previously.
(Option 11 is only available in special version)

? (Format number) **<ENTER>**

and/or
Check details on LCD then **<ENTER>**

NETWORK ADDRESS

The network address must be entered for
Direct Line formats to identify the panel to the
remote monitoring station.
1 digit is entered for Tecom Direct Line (formats
9 & 10) and 2 digits for EDL (format 11).
The network address is supplied by the
monitoring company.

?? (Network address) **<ENTER>**

and/or
Check details on LCD then **<ENTER>**

ENCRYPTION KEY

A number between 0 & 255 may be entered
here to encode the data being sent to the
remote monitoring company.
Leave this set to 0 unless other wise instructed
by the remote monitoring company.

??? (Encryption key) **<ENTER>**

and/or
Check details on LCD then **<ENTER>**

DIRECT LINE TERMINATION

If the Challenger panel is the only device on a
Direct Line connection to the monitoring station,
set this option to YES.

<*> (Toggle setting between YES & NO) **<ENTER>**

and/or
Check setting on LCD then **<ENTER>**

REMOTE SYSTEM CONTROL

If the remote monitoring company is to be
allowed to control certain system functions
such as arm/disarm, reset, isolate, etc., then
this option must be set to YES.

<*> (Toggle setting between YES & NO) **<ENTER>**

and/or
Check setting on LCD then **<ENTER>**

OPTIONS FOR REPORTING TO A COMPUTER

See AN7 - Reporting to Computer or
Vers 8 Programming guide for details.

13.   To enable Users to perform any alarm control and/or user functions using their PIN code, program USERS.

The client will normally have the authority to program users into their system.
This programming option may not need to be performed by the Installer except to ensure that a user is programmed into the system who has the necessary authority to program the remaining users.

It is important that the client is provided with details of the User's Alarm Groups to facilitate this.
Space is provided at the rear of the User Guide for a summary of the User's Alarm Groups that the client will use when adding and/or changing users in their system.

Select the Option to <u>CREATE</u> a user

Select a <u>USER NUMBER</u> to program.

Note: User number 50 is the Master Installer Code. The PIN code for user 50 should be changed from the factory default of 4346, but no other parameter should be altered.

Assign an <u>ALARM GROUP</u> to the user to specify the area/s and functions allowed.

It is not necessary to assign a <u>Door Group</u> or a <u>Floor Group</u> for a basic alarm system using PIN codes for control.

Program the <u>USER NAME</u>.
Note: Only possible for Users 1 to 200.

Program the User's <u>PIN CODE</u>.
Note: Only possible for Users 1 to 1000.

<u>USERS</u> are programmed in the User Menu Option 14.

From the User (Main) Menu select Option 14.

1 4 (Menu Option) **<ENTER>**

3 (Create) **<ENTER>**

? (User Number) **<ENTER>**

?? (Alarm Group number) **<ENTER>**

and/or
Check details on LCD then **<ENTER>**

<ENTER>   Bypass Door Group option.

<ENTER>   Bypass Floor Group option.

? (Character) **<ENTER>**   For each character of the name.
<*>   Save & check the name programmed.

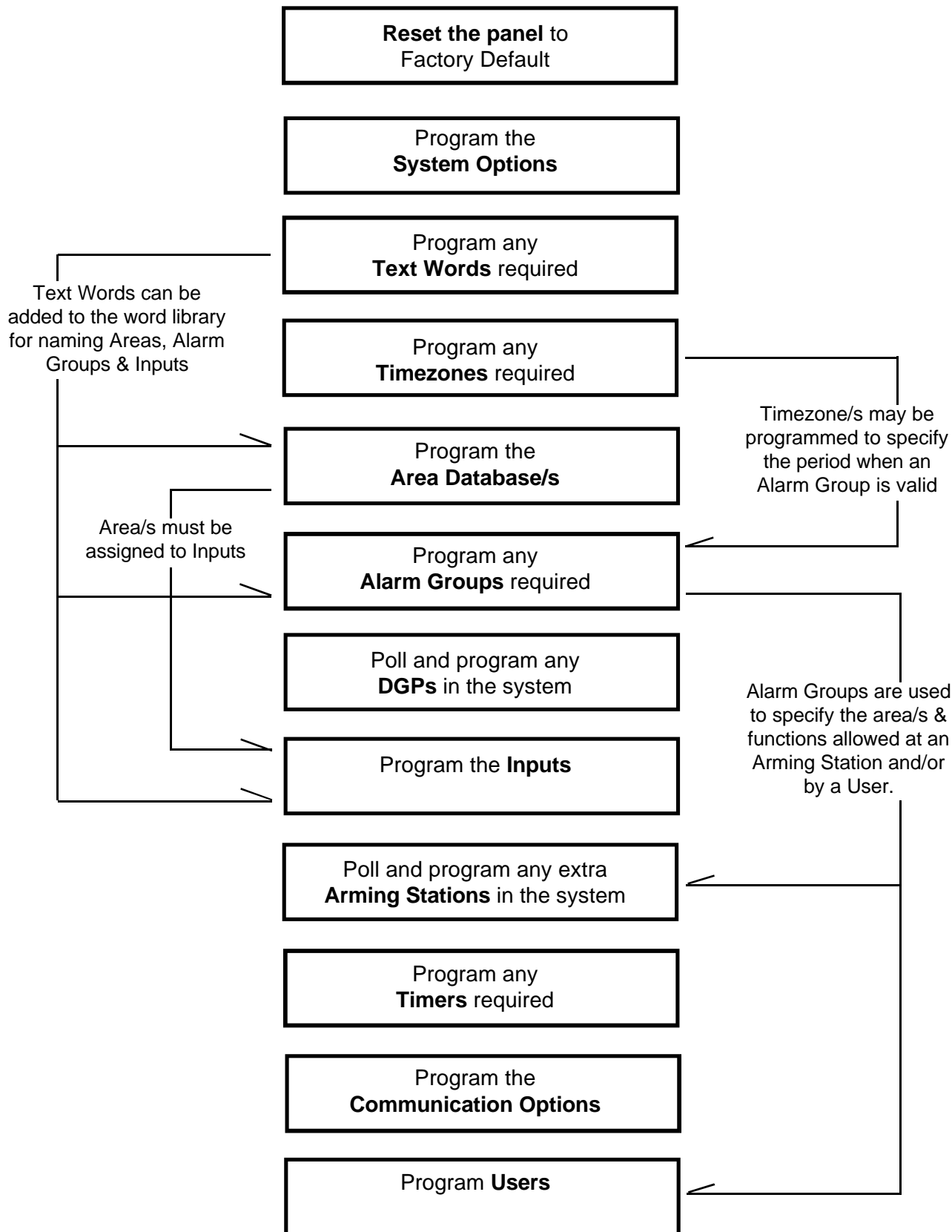**<*>**   Save & move on to next display.

? ? ? ? (4 to 10 digit PIN Code) **<ENTER>**

and/or
Check details on LCD then **<ENTER>**

SUGGESTED PROGRAMMING SEQUENCE

Reset the panel to
Factory Default

Program the
System Options

Program any
Text Words required

Text Words can be
added to the word library
for naming Areas, Alarm
Groups & Inputs

Program any
Timezones required

Timezone/s may be
programmed to specify
the period when an
Alarm Group is valid

Program the
Area Database/s

Area/s must be
assigned to Inputs

Program any
Alarm Groups required

Poll and program any
DGPs in the system

Alarm Groups are used
to specify the area/s &
functions allowed at an
Arming Station and/or
by a User.

Program the **Inputs**

Poll and program any extra
Arming Stations in the system

Program any
Timers required

Program the
Communication Options

Program **Users**

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. 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 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 Version 8 Programming guide; Table 4 & Installer Menu Option 5 for details)

In SYSTEM OPTIONS,   Film Low is set to 800.
Film Out is set to 1100.
Input tamper monitoring set to YES.
Display one input at a time set to YES
Name File set to YES

Most of the TIMERS have a default value programmed.

Access Test	15 min	Secure Test	15 min
Warning Time	5 min	Delayed Holdup	60 sec
Suspicion	15 sec	Service Time	30 min
Local alm reminder	0 min	Individual input test	5 min
Door/s access time	5 sec	Tester Event time	15 sec
Siren Time	8 min	Mains Fail time	60 min

In COMMUNICATION OPTIONS,   Reporting format is Contact ID-Large.
Area 1 is listed for Open/Close reporting.
Tone Dialling is selected.

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.

The Challenger is Designed and Manufactured by:

Tecom Systems Pty. Ltd.
A.C.N. 005 523 562
646 Whitehorse Road
MITCHAM VICTORIA AUSTRALIA 3132

Telephone: 03 9259 4700 Facsimile: 03 9259 4799

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