EN50131-3:2009
EN50131-1:2006+A1:2009
PD6662:2010

EURO 46S:
Security Grade 2
Environmental Class II
EURO 46L, EURO 162 & EURO 280:
Security Grade 3
Environmental Class II

Software Version >9.1

Pyronix®
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Castle

Programming Reference

For the EURO 46, EURO 162 and EURO 280 control panels

CE

RINS1528-4

CONTENTS PAGE

Default Codes: User Code: 1234, Master Manager Code: 2222, Engineer: 1111.

Factory Default Codes:

Clean start with the code '2000' (GRADE 3 DEFAULTS) - Refer to page: 38

Clean start with the code '2002' (GRADE 2 DEFAULTS) - Refer to page: 38

Other Codes: Keypad Security Code: '2000', Delete All Wireless Data: '2000'

1. The Engineer Menu

The Engineer menu must be accessed in order to program all system configurations.

NOTE 1: All tamper alarms (including case tamper), will be disabled once in the Engineer menu.

NOTE 2: All personal attack and fire alarms will cause an alarm in the Engineer menu.

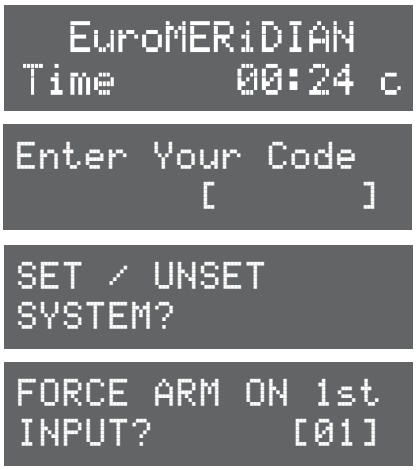
1.1 Entering The Engineer Menu

Access to the Engineer menu will be allowed if the EURO control panel is unset. If set, the E must be unset first via a valid user code/tag/keyfob in order to gain access. If the 'Allow Engineer menu' function in the Master Manager Menu is set as 'No', the message 'Authorisation Required' will be shown and access will be denied until this option is set as 'Yes'.

1. Enter the Engineer code (default 1111).
2. Press [NO] if any faults appear.
3. 'SET/UNSET SYSTEM' is displayed (page:9).
4. Press [NO].
5. 'FORCE ARM ON 1st INPUT' is displayed (page:9).
6. Press [NO].
7. 'SOFTWARE REVISION' is displayed.
8. Engineers Menu has been accessed.

Refer to page: 10 for all functions.

NOTE: When the Engineer menu is accessed, a high pitch tone is generated intermittently.



NOTE 1: It is recommended that a factory default (Clean Start) is performed after initial power up to ensure that the correct defaults have been chosen (page: 38).

NOTE 2: Refer to Appendix F, page: 51 for all fault code display descriptions.

1.2 Exiting The Engineer Menu

1. On a Main Menu Item (a menu that is in capital letters), press [A] or scroll to 'EXIT ENGINEERS MENU' and press [YES].

1.3 Useful Engineer Menu's

- **WIRELESS DEVICE CONTROL** (Page: 11): Learns and deletes all wireless inputs and bells if a wireless ZEM (EURO-ZEM32-WE) is installed (Refer to the installation manual (RINS1529)). To learn keyfobs enter the Master Manager menu and scroll to CHANGE CODES. (Refer to the user manual (RINS1527))
- **CHANGE INPUTS** (Page: 14): Programs all input types, attributes, areas and names and on the EURO control panel.
- **ASSIGN KEYPADS/READERS** (Page: 16): Assigns keypads, readers, and enables readers for entry control. **NOTE:** Keypads and Readers must be addressed at the device and at the keypad. (Refer to the installation manual (RINS1529)).
- **CHANGE CODES** (Page: 22): Changes the Engineer code and Master manager code. To change user codes enter the Master Manager menu and scroll to CHANGE CODES. (Refer to the user manual (RINS1527)).
- **CHANGE OUTPUTS** (Page: 24): Programs any outputs and assigns output modules if installed to the EURO control panel.
- **DIAGNOSTICS** (Page: 30): Displays the power, input status, wireless signal strength and wireless battery levels.
- **PROGRAM ARC/SMS** (Page: 35): Enables the modem (if connected) and allows signalling of communication formats and SMS.

2. System Overview

2.1 System Overview

EURO	EURO 46 Double Pole	EURO 46 End of Line	EURO 162 iD	EURO 162 End of Line	EURO 280 iD	EURO 280 End of Line
Inputs (max)	46		162		280	
Inputs (max iD)	-		150		240	
Inputs (max wireless inputs) Using EURO-ZEM32-WE	32 (1 x ZEM32-WE)		96 (3 x ZEM32-WE)		96 (3 x ZEM32-WE)	
Inputs (max wired ZEMs) EURO-ZEM8+	4	4	4	18	7	30
Set Points (Max) $	6		16		30	
Of which max keypads	6		16		30	
Other Devices Max $	5		15		29	
Wireless Bells	2		2		2	
Level Sets	6		12		14	
Full Areas	6		12		14	
Wards (Max)	5		15		29	
Shunts	23		81		140	
Wireless Keyfobs	32		32		32	
User / Manager Codes £	75		200		500	
Duress / Guard Codes	10		20		20	
Logs Mandatory	750		1000		1000	
Logs Access	250		500		500	
Logs Optional	250		500		600	
Output Modules	2		8		16	
EN Grade	3 (2 = Small casing)		3		3	
Environment Class	2		2		2	
Comms	Modem, ATE Pins		Modem, ATE Pins		Modem, ATE Pins	
Modem Type	EURO DIGI-1200 (PSTN)		EURO-073-ARM		EURO-073-ARM	
MSX card compatible	×		✓		✓	
Autoset & Gates	✓		✓		✓	
Shunt, Day Alarm, Unset Input Types	✓		✓		✓	
Follow Input	✓		✓		✓	
Special Log	✓		✓		✓	
Intelligent Inputs	Multiple		Multiple		Multiple	
Display when Set	✓		✓		✓	
Selectable Resistance Ranges	✓		✓		✓	
Download When Set	✓		✓		✓	
Remote Set and Soak	✓		✓		✓	
Event Signalling to Insite	✓		✓		✓	
Dial Out Menu	Upload/ Commission		Upload/ Commission		Upload/ Commission	
Power Supply	EURO 46S: 1.5A (small casing) EURO 46L: 2A (large casing) EURO 162/280: 2.5A Rating Grade 1: 2.25A Rating Grade 2: 1.4A Rating Grade 3: 0.9A					
£	Includes Engineer and Master Manager codes					
$	Includes keypads, tag readers, and ZEM2Ps					

2.2 Wired Input Mappings

EURO	*46 EOL/DP	162iD	162EOL	280iD	280EOL
iD					
End Station	-	1-30	-	1-30	-
EOL					
End Station	1-8	151-158	1-8	241-248	1-8
ZEM0	9-16	-	9-16	-	9-16
ZEM1	17-24	-	17-24	-	17-24
ZEM2	25-32	-	25-32	-	25-32
ZEM3	33-40	-	33-40	-	33-40
ZEM4	-	-	41-48	-	41-48
ZEM5	-	-	49-56	-	49-56
ZEM6	-	-	57-64	-	57-64
ZEM7	-	-	65-72	-	65-72
ZEM8	-	-	73-80	-	73-80
ZEM9	-	-	81-88	-	81-88
ZEM10	-	-	89-96	-	89-96
ZEM11	-	-	97-104	-	97-104
ZEM12	-	-	105-112	-	105-112
ZEM13	-	-	113-120	-	113-120
ZEM14	-	-	121-128	-	121-128
ZEM15	-	-	129-136	-	129-136
ZEM16	-	-	137-144	-	137-144
ZEM17	-	-	145-152	-	145-152
ZEM18	-	-	-	-	153-160
ZEM19	-	-	-	-	161-168
ZEM20	-	-	-	-	169-176
ZEM21	-	-	-	-	177-184
ZEM22	-	-	-	-	185-192
ZEM23	-	-	-	-	193-200
ZEM24	-	-	-	-	201-208
ZEM25	-	-	-	-	209-216
ZEM26	-	-	-	-	217-224
ZEM27	-	-	-	-	225-232
ZEM28	-	-	-	-	233-240
ZEM29	-	-	-	-	241-248
RKP0	41-42**	159-160	153-154	249-250	249-250
READ/RKP1	43-44**	161-162	155-156	251-252	251-252
READ/RKP2	45-46**	-	157-158	253-254	253-254
READ/RKP3	-	-	159-160	255-256	255-256
READ/RKP4	-	-	161-162	257-258	257-258
READ/RKP5	-	-	-	259-260	259-260
READ/RKP6	-	-	-	261-262	261-262
READ/RKP7	-	-	-	263-264	263-264
READ/RKP8	-	-	-	265-266	265-266
READ/RKP9	-	-	-	267-268	267-268
READ/RKP10	-	-	-	269-270	269-270
READ/RKP11	-	-	-	271-272	271-272
READ/RKP12	-	-	-	273-274	273-274
READ/RKP13	-	-	-	275-276	275-276
READ/RKP14	-	-	-	277-278	277-278
READ/RKP15	-	-	-	279-280	279-280

READ = Reader

RKP = Remote Keypad

ZEM = Zone Expander Module

2.3 Wireless Input Mappings

EURO	46 Wireless	162 Wireless	280 Wireless
End Station	-	-	-
ZEM0	9-16	9-16	9-16
ZEM1	17-24	17-24	17-24
ZEM2	25-32	25-32	25-32
ZEM3	33-40	33-40	33-40
ZEM4	-	41-48	41-48
ZEM5	-	49-56	49-56
ZEM6	-	57-64	57-64
ZEM7	-	65-72	65-72
ZEM8	-	73-80	73-80
ZEM9	-	81-88	81-88
ZEM10	-	89-96	89-96
ZEM11	-	97-104	97-104

2.3.1 Wireless ZEM (EURO-ZEM32-WE)

The wireless ZEM allows 32 inputs which are separated into 4 addresses (each address enables 8 wireless inputs). It is possible to mix the wired and wireless remote expanders. Please refer to the installation manual (RINS1529) for more information.

2.3.2 Wireless ZEM (EUR-037R)

The Inovonics wireless ZEM is added to the system as if it was a wired ZEM and follows the same zone mapping as the table on the previous page. Please refer to the installation manual (RINS1529) for more information.

3. General Information

Please note that the number of areas, codes, inputs and outputs shown in this manual may differ to the EURO control panel that is being used. Refer to 'System Overview' on page: 4 to see the maximum areas, codes, inputs and outputs for each variant of the EURO control panel range.

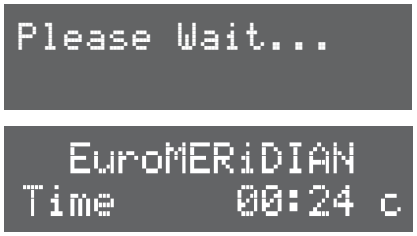
3.1 Default Codes

User: 1234.	Master Manager: 2222	Engineers: 1111

3.2 Initial Power Up

Power up the EURO control panel, an alarm will be generated.

1. Once power has been applied to the EURO control panel, 'Please Wait' and then '485 Comms Lost' will be displayed. After approximately one minute, the LCD display will show th time on the display.
2. If only one LCD keypad is installed, this will be addressed as 00 automatically.



NOTE: The wording 'EURO MERIDIAN' can be changed in the function 'SYSTEM DISPLAYS'(page:20).

3.3 Testing The Keypad

With the system unset, press the [B] key for 10 seconds at any keypad. This will cause all the LEDs on that keypad to illuminate, and the LCD screen to scroll a display testing each pixel. The keypad will revert to normal display approximately 10 seconds after the key is released.

3.4 Keypads / Readers

3.4.1 The Keypad

Additional keypads can be connected to the EURO control panel. Refer to the system overview section (page: 4) for the maximum number of keypads that can be installed. Refer to the installation manual (RINS1529) for connections details.

KEY FUNCTIONS:

[A] = Exit manager menu / Selects Area A.

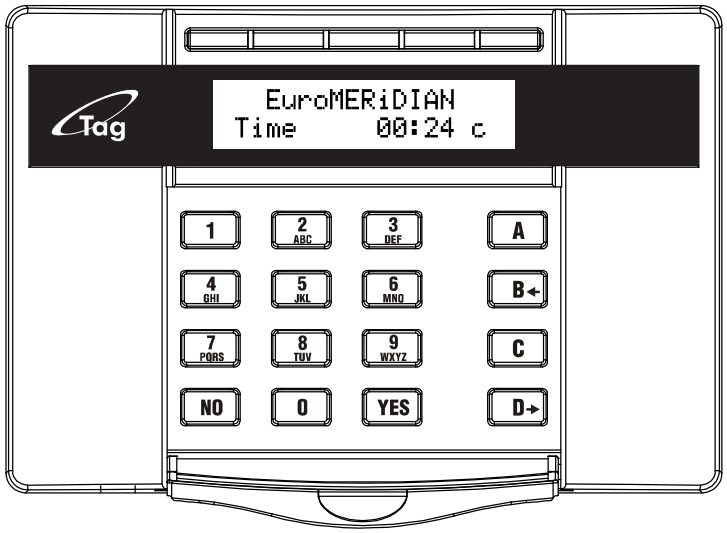
[B] = Moves backwards to the previous menu item / Selects Area B.

[C] = Enables chime and displays additional information in the log / Scrolls back 'one' in a sub menu / Selects Area C.

[D] = Moves forward in the log / scrolls between options and enters the master manager menu /Selects Area D.

[YES] = Selects items and enters menus.

[NO] = Cancels items, resets the panel and moves to next item in a menu item.



NOTE: If any additional keypads are installed on the EURO control panel, it is possible to access the Engineer menu on any keypad. For example, if the Engineer menu is accessed on keypad address 0, the other keypads will display 'system busy', to access the Engineer menu on any other keypad, press the [B] key on the relevant keypad and the Engineer menu will be displayed.

Addressing Keypads

To address further keypads on the EURO control panel, press and hold the [D] key until 'SECURITY CODE' is displayed. Enter '2000' and choose the relevant address and press the A key. Please refer to the installation manual (RINS1529) for all connection details.

3.4.2 The Internal Tag Reader (EUR-107)

The Internal tag reader can be used for setting/unsetting, entry control or access control. Refer to the installation manual (RINS1529) for connection details.

Tag Area (Where a valid tag must be presented to set/unset)

Alert LED

Alarm LED

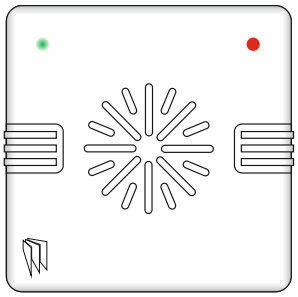
Tamper LED

Fault LED

Unset LED

3.4.3 The External Tag Reader (EUR-108)

The Internal tag reader can be used for setting/unsetting, entry control or access control. Refer to the installation manual (RINS1529) for connection details.

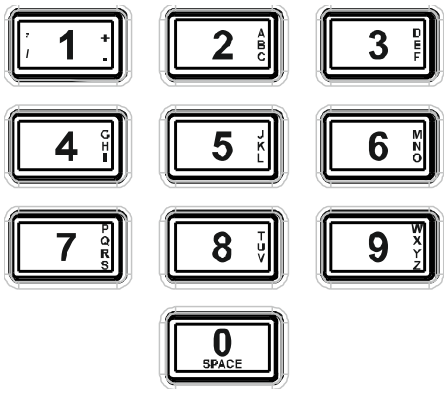


To set/unset the system using the External Tag Reader, present a pre-programmed tag to the centre of the prox.

The prox will display the system status: Green = Unset. Red = Set. Present the tag again within 10 seconds and the system will set or unset.

The system will then set depending on the type of exit mode programmed (Final door, Timed or Push to set)

3.5 Text Programming



Text may be programmed for input names, for the 'sign-on' message, and to identify the Set Level being set / unset. Each key is allocated alpha-numeric and punctuation mark characters.

The EURO control panel incorporates predictive text, so the system will predict the word that is being spelt. For example, if 'B' is pressed, and then [D] and 'e' is pressed, Bedroom will be displayed, to accept this press [YES]. If the word that is required doesn't appear on the LCD display, type the word as normal.

To type a word, press the relevant key the appropriate number of times – e.g. for the letter 'k' press [5] twice, or for the letter 's' press [7] four times. For punctuation marks, press the [1] key.

In addition, the [A] [B] [C] [D] keys are used as follows:

[A] = make the character into a capital [B] = move cursor left [C] = clears cursor / adds a space [D] = moves cursor right

3.6 Grade 2 and Grade 3 Defaults

The security grade of the EURO control panel can either Grade 2 or Grade 3*.

In the 'CLEAN START' function (Page: 38), enter '2002' for Grade 2 defaults, or '2000' for Grade 3* defaults.

**The EURO 46 Small control panel will only conform to Grade 2*

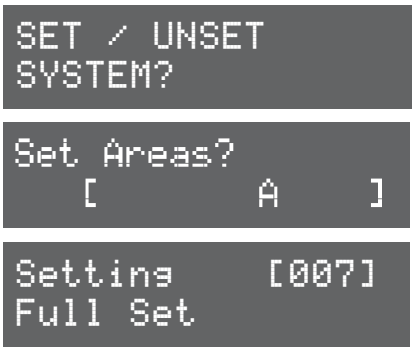
3.7 Set / Unset System

Setting and unsetting the system can be done using the Engineer code (default 1111).

NOTE: The term 'areas' will refer to both areas and level sets in this manual, also note that the number of areas and level sets will differ depending on the EURO control panel installed. To change the EURO control panel into a level set system, please refer to 'SITE OPTIONS' (page: 26).

1. Enter the Engineer code (default 1111).
2. Press [NO] if any faults appear.
3. 'SET/UNSET SYSTEM' is displayed.
4. Press [YES].
5. Select the areas to set. Press [YES].
6. The setting period will begin.
7. Once the timer expires, and a beep is heard, control panel is set.
8. To unset, enter the Engineer code again.

NOTE: If a wireless ZEM (EURO-ZEM32-WE) is installed, the display will show 'Please Wait Setting Wireless' and then will revert to the 'Setting' to display.



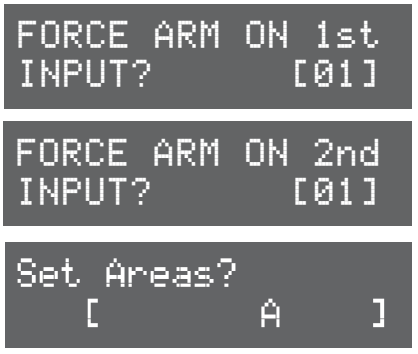
3.8 Forced Arm On Inputs

The 'Force Arm On Inputs' function enables two nominated inputs on the EURO control panel to be set. Either input can be triggered to allow real life signalling or alarm testing. This function is useful when a building is full of people and these tests are needed.

NOTE 1: The system will give the correct signalling response to the Setting, and any resulting alarm.

NOTE 2: If the system has been set by any other code, the Engineer code will unset the EURO control panel.

9. Enter the Engineer code (default 1111).
10. Press [NO] if any faults appear.
11. 'SET/UNSET SYSTEM' is displayed.
12. Press [NO].
13. 'FORCE ARM ON 1st INPUT' is displayed.
14. Enter the 1st input that is to be active. Press [YES].
15. Enter the 2nd input that is to be active. Press [YES].
16. Select the areas to set. Press [YES].
17. The setting period will begin
18. Once the timer expires, and a beep is heard, the EURO control panel is set and the 2 inputs chosen will be active.
19. To unset, enter the Engineer code again.



4. The Engineer Menu

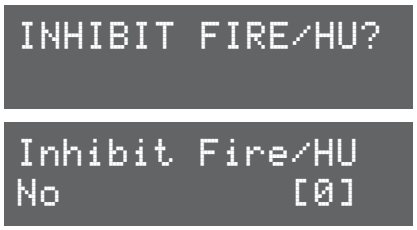
Any programming is only saved when exiting the Engineer menu. It is recommended that a Clean start is performed after initial power up (page: 38). This section follows the order of the Engineer menu.

4.1 Inhibit Fire & HU

This function allows the EURO control panel to respond to or inhibit Fire and Hold Up alarms, if the Engineer menu is being used.

Inhibit Fire/HU Programming

1. Press [B] or [NO] to scroll to 'INHIBIT FIRE/HU'. Press [YES].
2. Press [B] or [D] to select 'No' or 'Yes' to inhibiting Fire and Hold Up alarms. Press [YES].

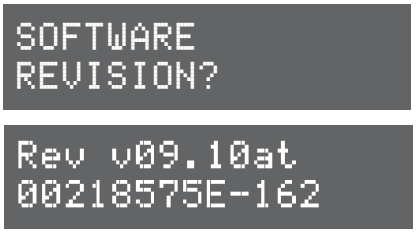


4.2 Software Revision

This option identifies the software version number, software serial number and product.

Software Revision Programming

3. Press [B] or [NO] to scroll to 'SOFTWARE REVISION'. Press [YES].
4. The software revision will be displayed and the EURO panel. (e.g. V9.10) Press [YES] or [NO] to return to the Engineer menu.



4.3 Choose Mode

This functions selects any End of Line resistor values for the inputs on the EURO control panel and any Zone Expander Modules.

NOTE: Alarm 4K7, Tamper 2K2 must be selected if wiring double pole to the EURO 46/Zone Expander Module.

4.3.1 Detection Mode

The EURO 162 or 280 can operate as an End of Line or iD control panel. Refer to 'Input Mappings' (page: 5) for more information.

[0] iD **[1]** EOL

NOTE: This function (and iD wiring) is not available on the EURO 46.

4.3.2 EOL Range (End of Line Range)

EOL Mode programs all inputs on the EURO control panel and Zone Expander Modules (ZEMs)s to operate as:

[0] Alarm: 1K, Tamper: 1K. **[1]** Alarm: 4K7, Tamper: 2K2.

[2] Alarm: 4K7, Tamper: 4K7. **[2]** Wide range.

4.3.3 EOL mode (Double End of Line (DEOL) or Single End of Line (SEOL))

EOL Mode programs all inputs on the EURO control panel and Zone Expander Modules (ZEMs)s to operate as:

[0] Single End of Line (SEOL). **[1]** Double End of Line (DEOL).

4.3.4 Input Response Time

Input Response time programs the time that an input trigger must be present before the EURO control panel system generates an alarm.

[01]-[30] = 100ms to 3000ms

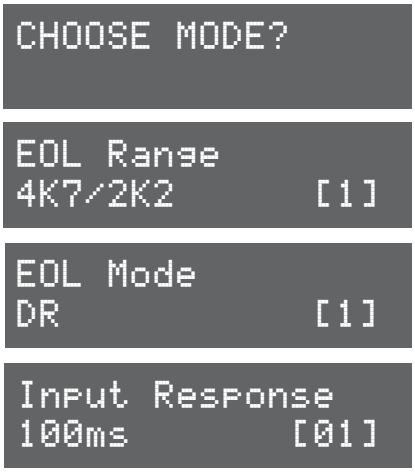
NOTE: Settings above 400ms do not comply with PD6662/EN50131.

4.3.5 Input XDF

Do not change this setting unless instructed by customer support.

Choose Mode Programming

1. Press [B] or [NO] to scroll to 'CHOOSE MODE'. Press [YES].
2. Press [B] or [D] to select the 'EOL Range' for all wired inputs. Press [YES].
3. Press [B] or [D] to select the 'EOL Mode' for all wired inputs*. Press [YES].
4. Press [B] or [D] to select the 'Input Response Mode' for all wired inputs. Press [YES] twice to return to the Engineer menu.



4.4 Install ZEMs

If any wired or wireless Zone Expander Modules (ZEMs) are installed on the EURO control panel, they must be addressed in this function.

4.4.1 ZEM Address

Refer to 'System Overview' (page: 4) for how many wired/wireless ZEMs can be installed.

4.4.2 ZEM Installed

[0] No **[1]** ZEM8 / EURO37R (Wired ZEMs) **[2]** ZEM32WE (Wireless ZEMs)

4.4.3 Enter Location

The text entered here will be displayed on the LCD display if a fault occurs on the ZEM, so the ZEM can be easily located or referenced. For example, the location text maybe "ZEM Kitchen", "ZEM Loft" etc.

Install ZEMS Programming

1. Press [B] or [NO] to scroll to 'INSTALL ZEMS'. Press [YES].
2. Press [B] or [D] to select the 'ZEM Address' . Press [YES].
3. Press [B] or [D] to select the 'ZEM8 or EURO37R' , ZEM32WE or No' to 'ZEM Installed'. Press [YES].
4. Enter the location of the ZEM. This is so it is referenced and will appear on the display if a fault occurs. Press [YES] to return to ZEM addressing.
5. Press [NO] to return to the Engineers menu.

4.5 Wireless Device Control

If a wireless ZEM (EURO-ZEM32-WE) is installed on the EURO control panel, the learning (and deleting) procedure for the wireless inputs and bells are performed in this function. It is recommended that all wireless devices are learnt at the wireless ZEM before any installation/mounting are completed. The signal strength plays an important part in maintaining a reliable wireless system, refer to page: 31 for more information.

4.5.1 Control Inputs

'Control Inputs' learns and deletes wireless inputs. Refer to 'System Overview' (page: 4) for the maximum wireless inputs and wireless input mappings.

4.5.2 Control Bells

'Control Bells' learns and deletes wireless Deltabell external sounders. A maximum of 2 wireless bells may be learnt.

4.5.3 Programming Keyfob Buttons

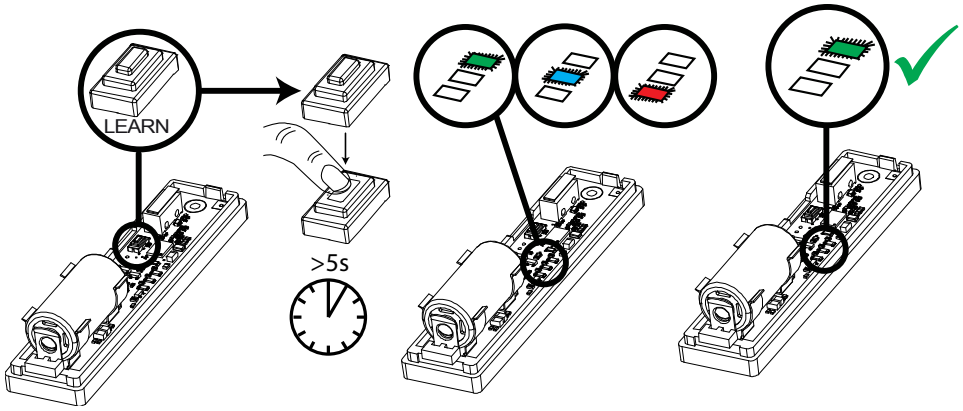
'Program Keyfob Buttons' assigns actions to each buttons on the keyfob.

NOTE: Keyfobs are learnt in the Master Manager Menu in the function 'CHANGE CODES'. Refer to the user manual (RIN1527).

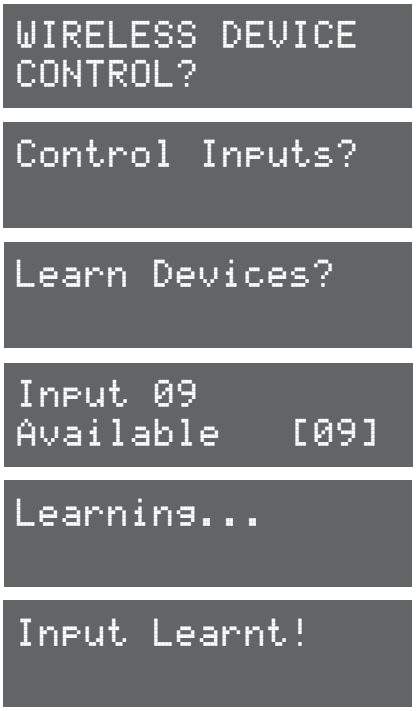
[0] No action: Disables the button **[1]** Show Status: GREEN = Unset. RED = Set.
[2] Set Area: Sets the chosen area **[3]** Unset Any Area: Unsets any area on the system
[4] Latch Output: Latches an output (programmable) when the nominated button is pressed.
[5] Timed Output: Activates an output for a period of time (programmable in seconds)
[6] Personal attack: Activates a personal attack activation (programmed in Engineers only)

Wireless Device Control Programming: Learning Inputs

1. Press [B] or [NO] to scroll to 'WIRELESS DEVICE CONTROL'. Press [YES].
2. 'Control Inputs' will be displayed. Press [YES].
3. 'Learn Devices' will be displayed. Press [YES].
4. Press [B] or [D] to select the input to learn and press [YES].
5. Open the EURO control panel wireless device and press and hold the 'LEARN' button until all LEDs flash

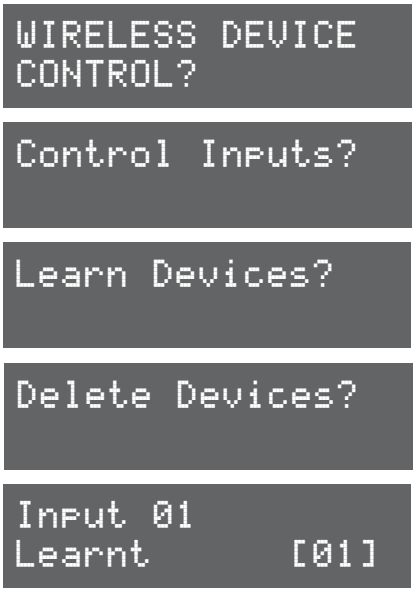


NOTE: The learn process is the same on all wireless contacts, detectors, and sensors. Once the GREEN LED is flashing, the learn process has been successful. Repeat the process above if the learn procedure has not been successful.



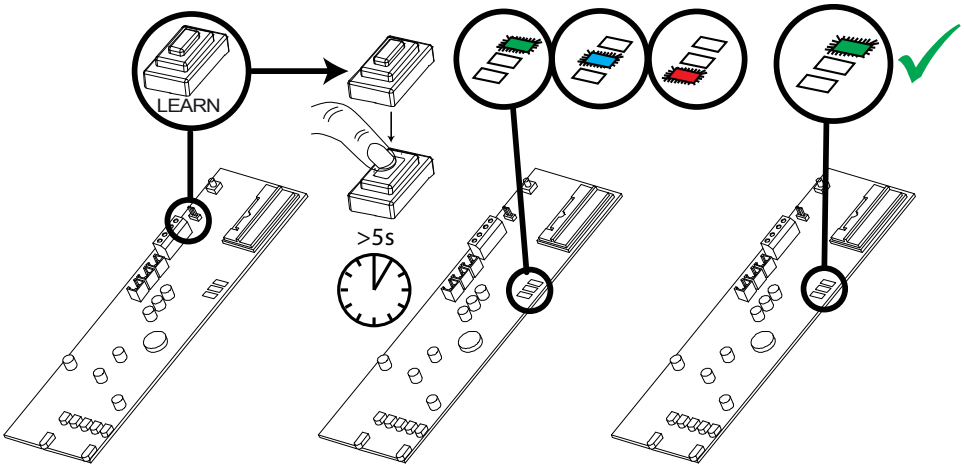
Wireless Device Control Programming: Deleting Inputs

1. Press [B] or [NO] to scroll to 'WIRELESS DEVICE CONTROL'. Press [YES].
2. 'Control Inputs' will be displayed. Press [YES].
3. 'Learn Devices' will be displayed. Press [NO].
4. 'Delete Devices' will be displayed. Press [YES].
5. 'Delete All' will be displayed, press [YES] and enter '2000' to delete all wireless peripherals, or press [NO] to delete individual inputs.
6. The inputs that are learnt will be displayed, press [B] or [D] to select the inputs and press [YES] to delete it.
7. 'Input Deleted' will be displayed.
8. NOTE: Once a wireless input is deleted, the input type must be set to 'unused' in the function 'CHANGE INPUTS' (page: 14).



Wireless Device Control Programming: Learning Bells

1. Press [B] or [NO] to scroll to 'WIRELESS DEVICE CONTROL'. Press [YES].
2. 'Control Inputs' will be displayed. Press [NO].
3. 'Control Bells' will be displayed. Press [YES].
4. 'Learn Devices' will be displayed. Press [YES].
5. Press [B] or [D] to select the bell (1 or 2) to learn and press [YES].
6. Open the EURO control panel wireless Deltabell and press and hold the 'LEARN' button until all LEDs flash



NOTE: Once the GREEN LED is flashing, the learn process has been successful. Repeat the process above if the learn procedure has not been successful.

WIRELESS DEVICE CONTROL?

Control Inputs?

Control Bells?

Learn Devices?

Select Bell Available [1]

Learning...

Bell Learnt!

Wireless Device Control Programming: Deleting Bells

1. Press [B] or [NO] to scroll to 'WIRELESS DEVICE CONTROL'. Press [YES].
2. 'Control Inputs' will be displayed. Press [NO].
3. 'Control Bells' will be displayed. Press [YES].
4. 'Learn Devices' will be displayed. Press [NO].
5. 'Delete Devices' will be displayed. Press [YES].
6. 'Delete All' will be displayed, press [YES] and enter '2000' to delete both wireless Deltabell external sounders, or press [NO] to delete individual external sounders.
7. The external sounders that are learnt will be displayed, press [B] or [D] to select the bell and press [YES] to delete it.
8. 'Bell Deleted' will be displayed.

WIRELESS DEVICE CONTROL?

Control Inputs?

Control Bells?

Learn Devices?

Delete Devices?

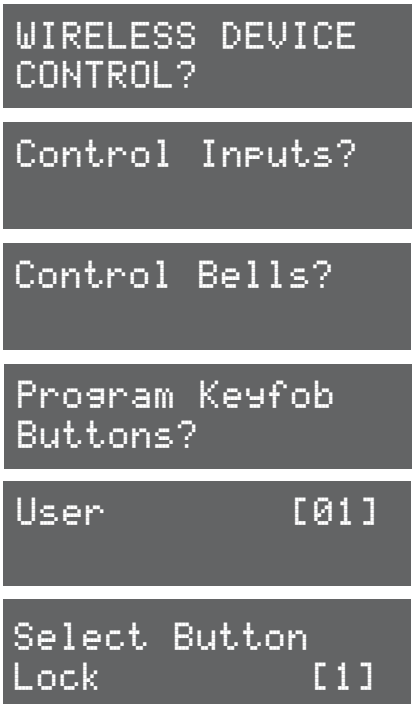
Delete All?

Select Bell Learnt [1]

Wireless Device Control Programming: Program Keyfob Buttons

1. Press [B] or [NO] to scroll to 'WIRELESS DEVICE CONTROL'. Press [YES].
2. 'Control Inputs' will be displayed. Press [NO].
3. 'Control Bells' will be displayed. Press [NO].
4. 'Program Keyfob Buttons' will be displayed. Press [YES].
5. Press [B] or [D] to select the user to learn and press [YES].
6. Press [B] or [D] to select the button to be programmed and press [YES].
7. Press [B] or [D] to select the action of the button and press [YES].
8. Select the area that the keyfob should be programmed in, press [YES].

NOTE: Keyfobs are learnt in the Master Manager Menu under 'CHANGE CODES'. Refer to the user manual (RINS1527).



4.6 Change Inputs

By default, all inputs are programmed as 'unused', therefore each input installed on the EURO control panel must be programmed with the desired input type. To enable any programming the Engineer menu must be exited.

4.6.1 Input Types

Refer to Appendix B (page 43), for all input type options.

Most commonly used input types:

[06] Intruder. **[07]** Final Exit. **[08]** Entry Route. **[13]** Day Alarm.

NOTE 1: If an alarm is triggered from an Entry Route input, it will store for 2 seconds before an alarm is activated. If a Final Exit input is triggered within this time, the system will select entry time, rather than an intruder alarm.

NOTE 2: Inputs may be automatically inhibited (omitted) at the time of reinstatement at the end of confirmation time. Refer to 'Re-Arm Number' in 'CHANGE TIMERS' (page: 21).

4.6.2 Input Areas

The maximum number of areas differs on each EURO control panel, refer to 'System Overview' (page: 4) for this information.

4.6.3 Input Attributes

The following attributes can be applied to any input:

Chime: When enabled the system loudspeaker(s) will 'chime' when an input is triggered whilst the alarm panel is disarmed. Chime can be single – sounding once of follow – sounding while the door is left open. **NOTE**: The chime can be turned On or Off in disarmed mode by pressing [c] when all Final Exit inputs are closed.

Omittable: Enables the input to be manually omitted during the setting procedure or from the user menu whilst the panel is disarmed.

Double Knock: If enabled, an alarm will be generated if this input is triggered twice within the pre-programmed time window or if the input remains active for that period. The double knock option does not work on Follow input type.

Dual Trip: An alarm will only be generated if 2 inputs one next to the other with a Dual Trip attribute have been activated at the same time. This option is very useful for setting up outdoor perimeter protection.

Normally Open: Both wired and wireless inputs are normally set to Normally Closed. This attribute allows setting up the input as a Normally Open.

Walk Test: The panel will not set if the user does not activate each detector with this attribute after starting the setting timer. This is a way to prevent setting the system with masked or faulty detectors.

Monitor Activity: This attribute works in conjunction with the NAT (Non Activity) timer. If a detector has not been activated in during the NAT time the NAT output if programmed will be activated. An event will be registered in the log too.

Special Log: Forces a log entry when the input is opened or closed, even when an alarm does not result. May be selected to apply when a system is armed, when disarmed, or always.

Paired Input: For use in Grade 3 iD systems (or EoL inputs on peripheral devices fitted software prior to version 5). Select to 'YES' for each of the two biscuits acting as the input. Fault Input: Select to 'YES' for the biscuit acting as the 'fault & anti-mask' Paired With: For both biscuits enter the input number with which each is paired.

Confirm Group: If one or more inputs are selected within the same confirm group, all confirmed signals will be disabled. If confirm group is selected as '00' the inputs are not part of any group. If inputs are allocated to group 99 they will generate an alarm that results in an intruder (unconfirmed) signal to an ARC. They will not under any circumstances generate a confirmed signal, regardless of which group the input that selected the 'unconfirmed' alarm is allocated to.

4.6.4 Input Description

A name and location can be entered here. The name will appear on the display if an alarm has occurred; the location is used for a more detailed reference if required.

Creating a Common Area

In some installations a 'common' area may be required. A common area is an area that only arms, when other specific areas become armed.

Example: An entry and exit reception area in a building may only need to be armed if both the offices and warehouse are armed.

If the office in Area A is armed, but the warehouse in Area B is still occupied, then the reception would still need to be inactive so people would be able to leave the premises via the entry / exit reception route.

One input can be allocated to one or more areas. In this example the inputs located in the reception area will be programmed so that the reception inputs will be in Area A and Area B but these inputs must have the Common input attribute programmed.

Area A: Office - Inputs = 3, 4, 5

Area B: Warehouse - Inputs = 6, 7, 8

Reception inputs – 1 and 2 are programmed into both Areas A and B, with the Common input attribute programmed to both inputs.

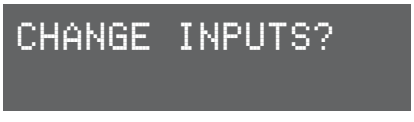
The Reception Area inputs will now only become active if both Area A and Area B are both armed.

Masking Response

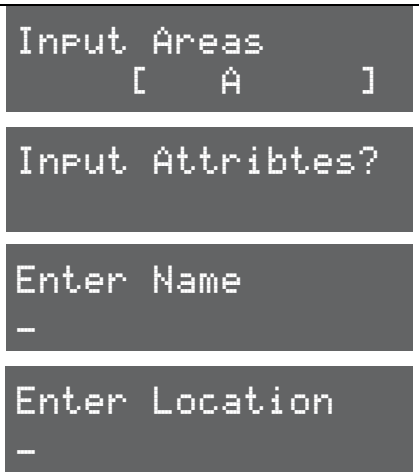
When unset, a masking event will generate an audible "alert" that requires a response at the keypad. There will be NO signal transmitted to the ARC. When set, a masking event will generate an unconfirmed alarm but will NOT result in a confirmed alarm if paired with a normal activation of the same detector. This harmonises with the requirement of EN50131-1 cause 8.4.5 and the insurer's preference expressed in BSIA Form 171.

Change Inputs Programming

1. Press [B] or [NO] to scroll to 'CHANGE INPUTS'. Press [YES].
2. Press [B] or [D] to select the input to program. Press [YES].
3. 'Input Type' will be displayed. Press [B] or [D] to select the input type or input the shortcut number (Refer to Appendix B (page 43)) for all input type options. Press [YES]
4. 'Input Area' will be displayed. Select the Area's to be assigned to the input and press [YES].
5. 'Input Attributes' will be displayed. If any attributes are needed for the input, press [YES] and press [B] or [D] to select between the attribute enable/disable options and press [YES] to go to the next attribute.



6. 'Enter Name' will be displayed. Enter the name of the input and press [YES]. This will be displayed if it is activated or when a fault occurs.
7. 'Enter Location' will be displayed. Enter the location of the input and press [YES]. This will be displayed if it is activated or when a fault occurs after the name of the input has been shown.
8. Press [B] or [D] to select another input to program (01-66) or press the [NO] key to return to the Engineer menu.



4.6.1 Shunt Inputs

A shunt group may consist of any number of inputs programmed as Intruder, Day Alarm and Entry Route types. These must all be allocated in the same Area. **NOTE:** These will need to be programmed first.

The inputs in the shunt group/list will only activate after 10 seconds of the nominated shunt input. For example, if input 1 is programmed as 'Shunt Input', and inputs 2 and 3 are programmed as "Day Alarm", then once input 1 has been opened, after 10 seconds inputs 2 and 3 become active. (Inputs 2 and 3 will not become live after 10 seconds if either detector is in active).

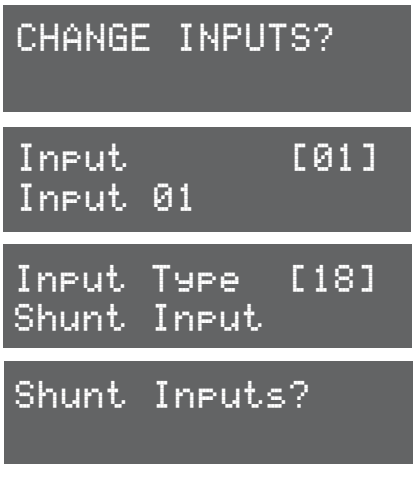
Action	Status	Outputs
Shunt Input closed (shunted)	Inputs within the shunt list are inactive	The 'Follow Input' output is live
Shunted Input triggered	No response	
Shunt Input opened (unshunted)	-	The 'Follow Input' output clears. The 'Shunt Fault' output is live for 10 seconds.
After 10 seconds	Inputs in the shunt list are active	Indications off.
Shunt Input opened with an active detector (attempting to unshunt)	-	The 'Follow Input' output clears. The 'Shunt Fault' output pulses until the shunt is reset or the input fault clears.
Active input clears	-	The 'Shunt Fault' output is live for 10 seconds. (Will not function correctly on an ATE pin).
After 10 seconds	Inputs in the shunt list are active	Indications off.
Shunted input triggered (whilst not triggered)	Normal input response	(Note: depends upon the status of the Area in which the shunt is located).

Change Inputs Programming: Shunt Inputs

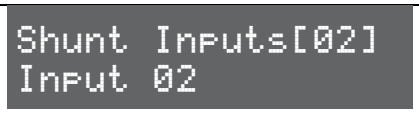
1. Press [B] or [NO] to scroll to 'CHANGE INPUTS'. Press [YES].
2. Press [B] or [D] to select the input to program. Press [YES].
3. 'Input Type' will be displayed. Enter '18' for 'Shunt Input' Press [YES]
4. 'Shunt Inputs' will be displayed. Enter the inputs to include in the Shunt List, after each input press [YES]. Each input will scroll on the bottom line of the LCD display.

NOTE: Inputs programmed as 'Intruder, Tamper, Day Alarm or Entry Route' cannot operate as a Shunt Input.

5. 'Input Area' will be displayed. Select the Area's to be assigned to the input and press [YES].



6. 'Input Attributes' will be displayed. If any attributes are needed for the input, press [YES] and press [B] or [D] to select between the attribute enable/disable options and press [YES] to go to the next attribute.



7. 'Enter Name' will be displayed. Enter the name of the input and press [YES]. This will be displayed if it is activated or when a fault occurs.
8. 'Enter Location' will be displayed. Enter the location of the input and press [YES]. This will be displayed if it is activated or when a fault occurs after the name of the input has been shown.
9. Press [B] or [D] to select another input to program or press the [NO] key to return to the Engineer menu.

4.7 Assign Keypads/Readers

Any additional keypads or readers must be addressed correctly before enabling them in this function. The EURO control panel keypad is automatically addressed as '00' on initial power up. Refer to the installation manual (RINS1529) for more information.

4.7.1 Address

Address '00' is used for the first keypad installed on the EURO control panel.

NOTE: Each keypad has its own individual menu that programs the key-click volume, tag volume and master volume. It will address a keypad, show the status of the keypad inputs (if programmed), force the backlight on or off and the identification number of a tag (once a tag is presented). The PA/Fire timer can be programmed. This menu also addresses the keypad.

To enter the keypad menu, press and hold the [D] key until 'SECURITY CODE' is displayed, and then enter '2000'. This function is also used to address the keypad.

4.7.2 Type

[0] Keypad. **[1]** Reader. **[2]** Not Used.

4.7.3 Reader is

If a tag reader is installed, the following options can be assigned:

[0] Set Point: Reader used for setting and unsetting.

[1] Ward Control: A reader can be used to create wards. For example: A keypad may control a full area, but in the area you may wish to control certain inputs only.

[2] Access Control: If an access control system is installed then the reader must be programmed as this type. The lock open time and door open time can be programmed (in seconds).

[3] Unset Only: If the Reader is to be used as an unset device only, select this type.

[4] Entry Control: Used to lock/unlock doors. The external or internal reader can have magnetic locks connected to them. This option is used in conjunction with 'tag opens doors' in 'SITE OPTIONS' page: 26. The lock open time and door open time can be programmed (in seconds).

4.7.4 Set Point Sets

A "Setting Point" means that you can program the keypad / reader to set certain Areas only. This is used in conjunction with the Areas allocated to a user code.

For example, if a user code is programmed to operate Areas 'A' and 'B', but the keypad / reader is only programmed to Set Area 'A', then the system will set only Area 'A'.

4.7.5 Set Point Unsets

An "Unsetting Point" means that you can program the keypad / reader to unset certain Areas only. This is used in conjunction with the Areas allocated to a user code.

For example, if a user code is programmed to operate Areas 'A' and 'B', but the keypad / reader is only programmed to Unset Area 'A', then the system will Unset only Area 'A'.

4.7.6 Set Point In

The keypad needs to also be told which Areas it is operating "in". For example, a keypad may only be needed to operate in Area A, but other code users may use the keypad to quick Set other Areas (such as a cleaner, director, caretaker etc). Therefore if Areas A and B are selected in the previous options (Set point arms and disarms), but Area A only is selected in 'Set point in', then Area B will quick set once a valid tag/code has been entered. To program Areas operating with their programmed timer, then the Areas need to be entered into the "Set Point In" function.

4.7.7 Set Point Description

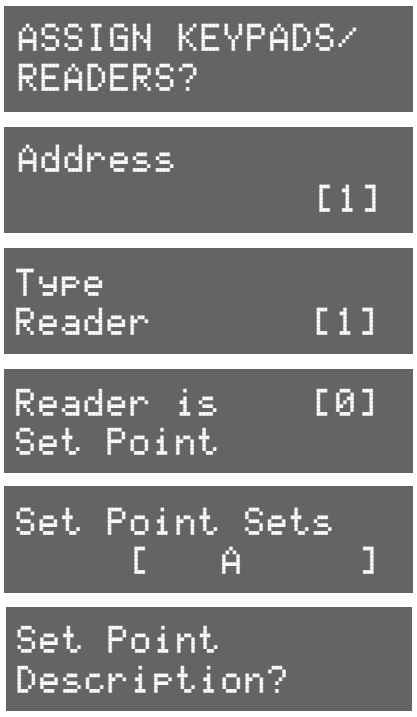
A name and location can be entered here. The name will appear on the display if an alarm has occurred, the location is used for a more detailed reference if required. E.g. Name = Entrance Keypad. Location = Hall

Programming Keypads: Assign Keypads/Readers

1. Press [B] or [NO] to scroll to 'ASSIGN KEYPADS/READERS'. Press [YES].
2. Press [B] or [D] to select the address. Press [YES].
3. 'Type' will be displayed. Press [0] to select keypad. Press [YES]
4. 'Set Point Sets' will be displayed. Select the area and repeat for 'Set Point Unsets' and 'Set Point In'. Press [YES].
5. 'Set Point Description' will be displayed. Press [YES] to enter the name and location if required.
6. 'Enter Name' will be displayed. Enter the name of the keypad and press [YES].
7. 'Enter Location' will be displayed. Enter the location of the keypad and press [YES].
8. Press [B] or [D] to select another device address to program or press the [NO] key to return to the Engineer menu

Programming Readers for Set Point or Unset Only: Assign Keypads/Readers

1. Press [B] or [NO] to scroll to 'ASSIGN KEYPADS/READERS'. Press [YES].
2. Press [B] or [D] to select the address. Press [YES].
3. 'Type' will be displayed. Press [1] to select reader. Press [YES]
4. 'Reader is' will be displayed. Press [0] for 'Set Point' or press [3] for 'Unset Only' Press [YES].
5. 'Set Point Sets' will be displayed. Select the area and repeat for 'Set Point Unsets' and 'Set Point In'. Press [YES].
6. 'Set Point Description' will be displayed. Press [YES] to enter the name and location if required.
7. 'Enter Name' will be displayed. Enter the name of the keypad and press [YES].
8. 'Enter Location' will be displayed. Enter the location of the keypad and press [YES].
9. Press [B] or [D] to select another device address to program or press the [NO] key to return to the Engineer menu.



4.7.8 Ward Control

A reader can be used to create 'wards' which are sub-area's that work independently from the assigned area.

Ward Inputs: Each ward may consist of any number of inputs, all of which must be allocated to the same area. No input can be allocated to more than one ward. Final Exit input types cannot be allocated to a ward and in the ward the setting/unsetting if the inputs is immediate without delay timers. The ward can be either be operated by proximity tag, or by key (or other) switch wired into the first input of the tag reader.

NOTE: The proximity tags for ward controls are programmed through the Master Manager menu through the 'CHANGE CODES' options. The reader provides 'Alarm' and 'Ready' outputs dedicated to that ward. It also provides relevant indications, including set/unset status, so these should always be located adjacent to the controlling switch where used.

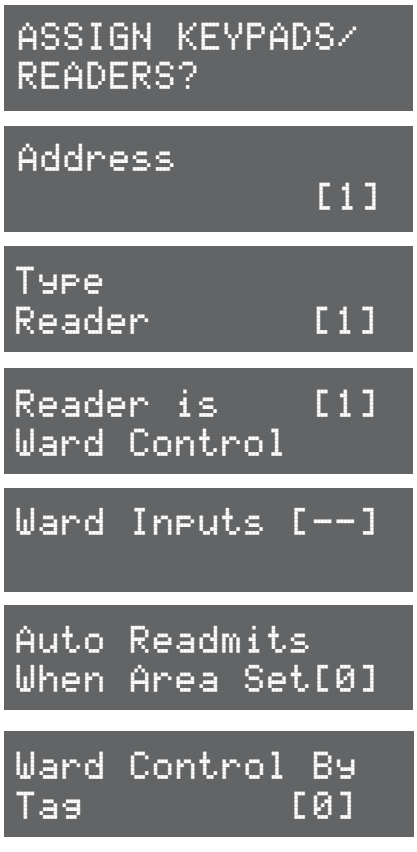
Auto Readmits: If this option is selected as 'When Area Set' then the ward control will always set when the area in which is it located is set. If selected as 'Never' it will always require manual setting from a programmed tag. The ward control must ALWAYS be unset manually. An additional option is available in the 'SYSTEM OPTIONS' menu, to allow an Abort signal to be generated by silencing an alarm at the Reader after alarm has been generated in the sub-area.

Ward Control By: A ward may be controlled by a tag or an input.

Action	Status	Notes
Normal (unset) status	Detectors within Ward are inactive	'Unset' indication lit
Ward input triggered	No response	
Attempt to set Ward with input in fault	-	'Fault' LED flashes and intermittent tone to indicate 'cannot set'
Set Ward with no faults	Ward sets (detectors live)	'Unset' indication goes out
Ward input triggered	Alarm generated	'Alarm' LED lights, alarm tone generated
Ward Controller unset	Ward unsets	'Unset' indication lights
Valid code entered at a Keypad whilst alarm running	Alarm silenced	Ward remains set.

Programming Readers for Ward Control: Assign Keypads/Readers

1. Press [B] or [NO] to scroll to 'ASSIGN KEYPADS/READERS'. Press [YES].
2. Press [B] or [D] to select the address. Press [YES].
3. 'Type' will be displayed. Press [1] to select reader. Press [YES]
4. 'Reader is' will be displayed. Press [1] for 'Ward Control'. Press [YES].
5. 'Ward Inputs' will be displayed. Enter a ward input and press [YES]. Each ward input will be added to the list. Press [NO] once all inputs have been entered.
6. 'Auto Readmits' will be displayed. Press [B] or [D] to select the between 'When Area Set' or 'Never' . Press [YES].
7. 'Ward Control By' will be displayed. Press [B] or [D] to select the between 'Tag' or 'Input' . Press [YES].
8. 'Ward Control Name' will be displayed. At default, the ward control name is 'Device 01' which needs to be referenced when programming codes/tags for the Ward Control in the Master Manager Menu.
9. 'Enter Location' will be displayed. Enter the location of the keypad and press [YES].
10. Press [B] or [D] to select another device address to program or press the [NO] key to return to the Engineer menu.



Programming Readers for Entry Control or Access Control: Assign Keypads/Readers

1. Press [B] or [NO] to scroll to 'ASSIGN KEYPADS/READERS'. Press [YES].
2. Press [B] or [D] to select the address. Press [YES].
3. 'Type' will be displayed. Press [1] to select the reader. Press [YES]
4. 'Reader is' will be displayed. Press [2] for 'Access Control' or press [4] for 'Entry Control' Press [YES].
5. 'Default Area' will be displayed if 'Entry Control' is selected. Select the default area and press [YES].
6. 'Lock Open Time' will be displayed. Enter the Lock Open Time in seconds and press [YES]. (Max 255 seconds).
7. 'Door Open Time' will be displayed. Enter the Door Open Time in seconds and press [YES]. (Max 255 seconds).
8. 'Access Control Description' will be displayed. Press [YES].
9. 'Enter Name' will be displayed. Enter the name of the keypad and press [YES].
10. 'Enter Location' will be displayed. Enter the location of the keypad and press [YES].
11. Press [B] or [D] to select another device address to program or press the [NO] key to return to the Engineer menu.

4.8 System Displays

This function programs the text display on the keypad for when the system is unset, or an area is set. The Site Name reference is programmed here which must match the site name programmed on the InSite software. There are options to enable or disable displaying when set, alarms, hold ups or inputs.

4.8.1 Area Texts

This programs how each Area will be displayed. For example if 'Area A' is used to set the full house this can be text as "Full House Set". There is a maximum of 16 characters on the display.

4.8.2 Sign On Message

The Sign on Message is the main display on the top line in unset mode.

4.8.3 Site Name

The Site Name is used as a reference for the PC software if used - This is the EURO InSite PC software, please refer to the installation manual (RINS1529) if used.

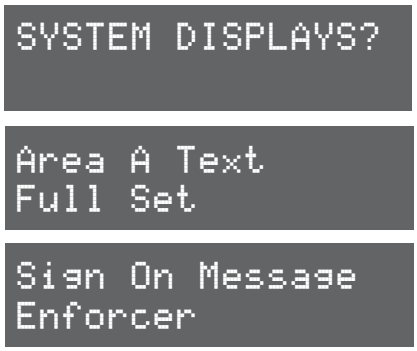
*4.8.4 Display When Set / Display Alarms / Display HU's / Display Inputs**

If 'Display when set' is enabled, then the Area Text will be displayed on the LCD keypad once the system is fully set. If Display Alarms / HU's are enabled, they will show any alarms that are activated before a valid user code/tag is entered. If Display Inputs is enabled, any inputs activated in day mode will be displayed.

NOTE: Must be set to NO to comply with EN50131-1

System Displays Programming

1. Press [B] or [NO] to scroll to 'SYSTEM DISPLAYS'. Press [YES].
2. 'Area A Text' will be displayed. Enter the text and press [YES]. Repeat for all areas.
3. 'Sign on Message' will be displayed. Enter the text and press [YES].
4. 'Site Name' will be displayed. Enter the text and press [YES].
5. 'Display When Set' will be displayed. Press [B] or [D] to enable or disable the function. Press [YES]. Repeat for 'Display Alarms', 'Display Hus', and 'Display Inputs'. Press [YES] to return to the Engineer menu.



4.9 Change Timers

This function controls all timers of the EURO control panel.

4.9.1 Timers

For a list of all timers, refer to Appendix C (page 45).

Most commonly used timers:

Entry Time (0-255 seconds), **Exit Time** (0-255 seconds), **Siren Time** (2-15 minutes), **Confirm Time** (1-99 minutes), **Wireless Supervision Time** (0-99 hours).

NOTE: The timer for inputs on 'Soak Control' is in the function 'ENGINEER TESTS'.

Change Timers Programming

1. Press [B] or [NO] to scroll to 'CHANGE TIMERS'. Press [YES].
2. 'A Entry Time' will be displayed. Enter the time and press [YES]. Refer to Appendix C (page 45) for all timers and enter the time on the required function and press [YES] for the next timer.
3. Press [NO] to return to the Engineer menu.

4.10 Date and Time

All log entries and the system display include the time and date. This is also programmed in the Master Manager Mode.

NOTE: Please note that powering down the system will reset the time and date information.

4.10.1 Year, Month, Day, Hours, and Minutes

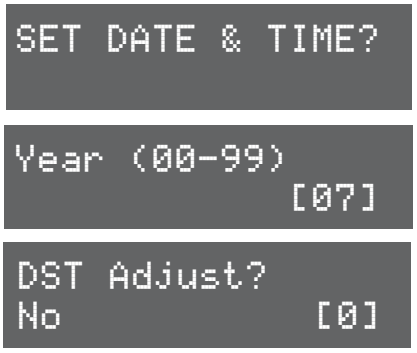
Enter the year, month, day, hours and minutes.

4.10.2 DST Adjust

Enable or disable the 'Day Saver Time Adjust' as required.

Set Date and Time Programming

1. Press [B] or [NO] to scroll to 'SET DATE AND TIME'. Press [YES].
2. 'Year' will be displayed. Enter the year and press [YES]. Repeat for Month, Day, Hours and Minutes and press [YES].
3. 'DST Adjust' will be displayed. Press [B] or [D] to enable or disable the function and press [YES].
4. Press [NO] to return to the Engineer menu.



4.11 Exit Modes

The '**Exit Modes**' operate the Setting procedure of the EURO control panel system. The following Exit Modes are available:

4.11.1 Exit Modes

[0] Timed: The EURO control panel system will set when the programmed 'Exit Time' has expired (Refer to 'CHANGE TIMERS' (page 21)).

NOTE: This is NOT suitable for systems installed to comply with BS8243.

[1] Final Door: The EURO control panel system will set when an input programmed as 'Final Exit' is either closed (if the input was opened when setting started) or it is opened and closed. 'Final door' is used for the 'lock set' operation; securing the lock completes the setting procedure and unlocking starts the entry time.

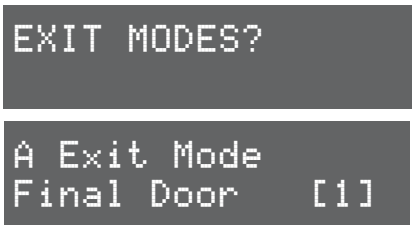
[2] Timed/Final: The EURO control panel system will set when a 'Final Exit' input has been closed, or when an 'Exit Time' has expired. The 'Final Exit' input will override any 'Exit Time' programmed if opened/closed.

NOTE: This is NOT suitable for systems installed to comply with BS8243.

[3] Push to Set (PTS): The EURO control panel system will only Set when a 'Push to Set' button has been pressed. This function will override the programmed Exit Time.

Exit Modes Programming

1. Press [B] or [NO] to scroll to 'EXIT MODES'. Press [YES].
2. 'A Exit Mode' will be displayed. Press [B] or [D] to select the Exit Mode and press [YES]. Repeat for all areas.
3. Press [NO] to return to the Engineer menu.



4.12 Change Codes

This function changes the Engineer code, the Master Manager code and adds/changes/deletes any Duress or Guard codes.

Default Codes: **User**: 1234. **Master Manager**: 2222. **Engineer**: 1111

NOTE: User codes, fobs and keyfobs can only be changed in The Master Manager Menu. Refer to the user manual for more information.

4.12.1 5 Digit Pins?

If enabled, a 5 or 6 digit code will automatically block several possible 4 digit codes that clash with it.

4.12.2 Change Duress Codes

[2] Duress Code: If the EURO control panel is unset using a 'Duress' code, a silent 'Duress' or 'Hold Up' signal is sent.

NOTE: ACPO policy prevents use of Duress codes for police call purposes.

[3] Guard Code: A 'Guard code' can be used to unset the EURO control panel only after an alarm has been activated for a minimum time (Refer to Appendix C (page: 45)). The code will set a system and an output type is available to signal when this code is used (0058 Guard Code).

[4] Dial Out: If a dial out code is programmed and entered when the EURO control panel is unset, the PC number 1 that is programmed (Refer to 'SET UP DOWNLOADING' (page: 32)) will be dialled.

4.12.3 Change Master Manager Code

The Master Manager code can be 4, 5 or 6 digits long, or can be assigned to a tag. It may also have the following functions:

[0] Unset / Set. **[1]** Unset Only. **[2]** Set Only. **[3]** None (used only to access the menu).

Flexi Set: If enabled, the default area the device is assigned to, will set. If disabled, the default area will be shown on the display, and from here other areas can be selected.

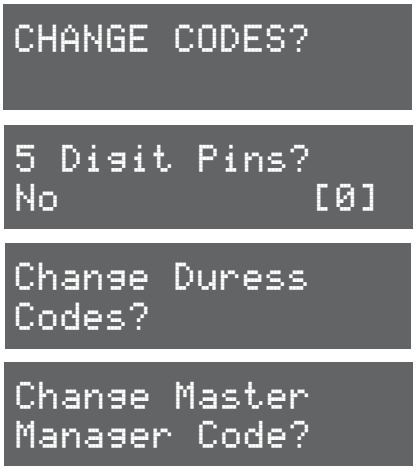
Wards/Access: This will only be displayed if an Entry Control or Access Control reader is installed on the system. If the address of the Entry Control or Access Control device is entered here, then the code will be assigned to that reader only.

4.12.4 Change Engineer Code

The Engineer code can be 4, 5 or 6 digits long.

Change Codes Programming

1. Press [B] or [NO] to scroll to 'CHANGE CODES'. Press [YES].
2. '5 Digit Pins' will be displayed. Press [B] or [D] to enable or disable and press [YES].
3. 'Change Duress Codes' will be displayed. Press [YES] to add any Duress, Guard or Dial out codes (as described previously) or press [NO].
4. 'Change Master Manager Code' will be displayed. Press [YES] to change the Master Manager code or press [NO].
5. 'Change Engineer Code' will be displayed. Press [YES] to change the Engineer code or press [NO] to return to the Engineer menu.



4.13 Volume Control

The Volume Control function applies to the loudspeaker output only. Volume levels at the keypad are programmed individually – refer to page: 17 on how to access the menu.

4.13.1 Volume Controls

The following volume on each sound can be controlled: Entry, Exit, Alarm, Fire, Tamper, Day alarm, Chime, and Intelligent Set.

Volume controls: 0 = Completely silent. 1 = Silent but sounds a beep when the system is set 2-7 volume of tones (7 = loudest).

4.13.2 Code Stops Sound

If this function is enabled, then once an alarm has been generated (even if the code is not programmed for that area) the alarm will be silenced, and a 'Misoperation (Abort) signal' will be sent. The area will remain set until a code or tag is presented that is assigned to that area.

4.13.3 Entry/Exit Keypads Only

If this function is disabled, any entry and exit tones will be heard through the main sounder. If enabled, the entry and exit tones will only be heard through the keypad speaker.

4.13.4 Alert Kps Only

If this function is enabled, any 'Alert' tones will be heard on the Keypad only and not the main sounder. If disabled, the alert tones will heard through both.

4.13.5 Silent Technical Alert

If this function is enabled then any technical alerts will be silenced, e.g line fault, ARC call fail.

Volume Control Programming

1. Press [B] or [NO] to scroll to 'VOLUME CONTROL'. Press [YES].
2. 'A Entry' will be displayed. Enter the volume and press [YES]. Repeat for all areas.
3. 'Code Stops Sound' will be displayed. Press [B] or [D] to enable or disable and press [YES].
4. 'E/E Keypads Only' will be displayed. Press [B] or [D] to enable or disable and press [YES].
5. 'Alert Kps Only' will be displayed. Press [B] or [D] to enable or disable and press [YES].
6. 'Silent Tech Alert' will be displayed. Press [B] or [D] to enable or disable and press [YES]. The Engineer menu will be displayed.

4.14 Alarm Response

The Alarm Response function controls how certain activations are to perform.

4.14.1 Silent 1st Alarm

If this function is selected as 'confirmed', then the first alarm to activate on the system will be silent, but only if another input activates (i.e. a confirmed alarm) then the alarm will activate and the alarm tones will be heard. This option is only valid once the system has been set for 3 minutes and not if the entry time has started.

4.14.2 Disable Confirm On Entry

To comply with BS8243 clauses 6.4.3 and 6.4.4, this option should be set to YES to disable confirmation once the entry procedure has started. **For use with BS8243 option 6.4.5, this option should be 'No'.** If 'Disable Confirm On Entry' is set to YES this option will disable **ALL** confirmation signals on entry. If NO the confirmation signals are enabled on expiry of entry time.

4.14.3 Alarm Starts / Stops (Alarm Responses)

There are 4 different 'Alarm Responses' that can be programmed:

[0] Keypads: If an alarm occurs, the keypad sounder will activate.

[1] Internal Sounders: If an alarm occurs, the internal sounder will activate.

[2] Bells Only: If an alarm occurs, the external sounders will activate.

[3] Signal Digi: If an alarm occurs, the digi will communicate.

[4] Confirm: If an confirmed alarm occurs.

Example 1: If the Alarm Response for Area A is programmed as 'Start At' "[0] Keypads" and 'Stop at' "[2] Bells Only" then it will take 15 seconds to go through each alarm responses before stopping at "Bells Only".

Example 2: If the Alarm Response is programmed as 'Start At' "[3] Signal Digi" and '[4] Stop At' "Confirm", all responses "[0] Keypads", "[1] Internal Sounders" and "[2] Bells Only" will activate the same time as 'Signal Digi' and all will stop when there is a 'Confirmed Alarm'.

The EURO control panel can operate on a combined Area basis, for example if both Areas 'A' and 'B' are set; you may want the process of the alarm responses to change. Therefore The 'If Areas set' section of this function should be used and select the desired Areas and the Alarm Responses.

Alarm Responses Programming

1. Press [B] or [NO] to scroll to 'ALARM RESPONSES'. Press [YES].
2. 'Silent 1st Alarm' will be displayed. Press [B] or [D] to enable or disable and press [YES].
3. 'Disable Confirm on Entry' will be displayed. Press [B] or [D] to enable or disable and press [YES].
4. 'Area A start at' will be displayed. Press [B] or [D] to select the alarm responses and press [YES]. Repeat for all alarm notifications.
5. The Engineer menu will be displayed.

4.15 Change Outputs

This function programs all output types, Any output type may be programmed to any of the systems outputs, including any outputs for wireless bells. Outputs must be used within their rated capacity.

NOTE: Only the ATE outputs can be inverted

4.15.1 Output Types

Refer to page 47 for all output type options. Most commonly used input types:

[0003] Intruder Any. **[0006]** Confirmed Any. **[0014]** Siren Any. **[0016]** Strobe Any.

[0018] Unconfirmed Any. [0035] Follow Input (page: 25) **[0051]** Line Fault.

[0052] Mains Fail. **[1###]** Follow Input.

4.15.2 ATE / STU Pin Outputs

Any communicating device with the industry standard footprint may be connected via ATE communication loom. Refer to the installation manual (RINS1529) for more information.

NOTE: There is an "Invert ATE outputs" option for use with positive removed/applied signaling. Refer to 'SITE OPTIONS' (page 26).

4.15.3 Endstation Outputs

This function programs the Bell, Strobe and the PGM outputs onboard.

NOTE: The EURO 46 allows the inputs 7 & 8 to be used as Outputs if they are not used. These outputs are referred as 'XPGM1' and 'XPGM2' in this function.

4.15.4 ZEM Outputs

If any Zone Expander Modules (EURO-ZEM8+ or EURO-ZEM8+PSU) have been connected to the EURO control panel, this function programs the outputs on each expander. The address of the expander is required before the output programming. Refer to the installation manual (RINS1529) for more information.

4.15.5 Wireless Bells

At default, any wireless bells learnt to the EURO control panel have the two outputs programmed as 'Siren Any' and 'Strobe Any'. These outputs can be programmed differently if required.

4.15.6 Output Module Outputs

If any Output Expander Modules (EURO-OEM8R8T, or EURO-OEM16R+PSU) are connected to the EURO control panel, they must be addressed in this function. All output programming is done also here. A maximum of 1 output expander can be connected to the EURO control panel. Refer to the installation manual (RINS1529) for more information.

Change Output Programming

1. Press [B] or [NO] to scroll to 'CHANGE OUTPUTS'. Press [YES].
2. 'Endstation Outputs' will be displayed. Press [YES] to program any endstation outputs, Press [B] or [D] to scroll through the outputs or the select the shortcut number. Press [YES] for the next output.
   'ATE Pin 1 ' will be displayed. Press [YES] to program any ATE ouptuts if a communication loom is connected to the EURO system or press [NO] for the next function. Press [B] or [D] to scroll through the outputs or the select the shortcut number.
3. 'ZEM Outputs' will be displayed. Press [YES] to program any ZEM outputs (on the EURO-ZEM8+ or EURO-ZEM8+PSU if connected), or press [NO] for the next function.
4. 'Wireless Bells'' will be displayed. Press [YES] to program any wireless output types or press [NO] for the next function.
5. 'Output Module Outputs'' will be displayed. Press [YES] to address an output module (EURO-OEM8R8T or EURO-OEM16R+PSU if connected) or press [NO] for the next function.
6. 'Keypad Outputs' will be displayed. Press [YES] to program any outputs on any additional keypads connected or press [NO] for the next function.
7. 'Reader Outputs' will be displayed. Press [YES] to program any outputs on any readers connected or press [NO] to return to the Engineer menu for the next function.

4.15.7 Follow Input [0035]

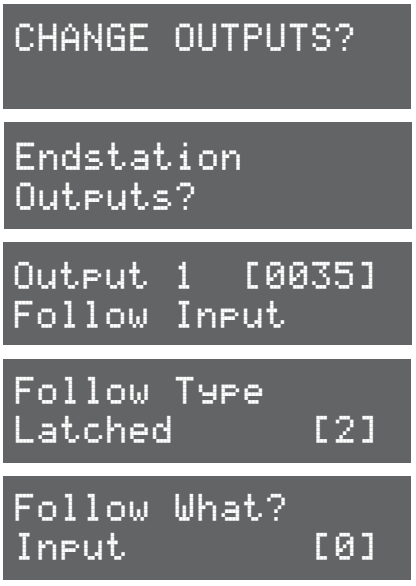
The Follow Input (output type 0035) is active when a specific input number has been activated and it allows the following options to be programmed:

- Follow Type ([0] Follow, [1] Timed, [2] Latched, [3] Code Reset);
- Follow What ([0] Input, [1] Shunt List, [2] Ward, [3] Area);
- Follow When ([0] When Set, [1] When Unset, [2] Always);

NOTE: The Follow Input will not function correctly if assigned to ATE pins.

Change Output Programming: Follow Input

1. Press [B] or [NO] to scroll to 'CHANGE OUTPUTS'. Press [YES].
2. 'Endstation Outputs' will be displayed. Press [YES] and enter '0035' for Follow Input.
3. 'Follow Type' will be displayed, Press [B] or [D] to scroll through the options and press [YES]. **NOTE:** If 'Timed' is selected the time that output will stay on has to be entered.
4. 'Follow What' will be displayed, Press [B] or [D] to scroll through the options and press [YES].
5. 'Follow When' will be displayed, Press [B] or [D] to scroll through the options and press [YES].
6. 'Input To Follow', 'Shunt To Follow, 'Ward To Follow' or 'Area To Follow' will be displayed depending on which option was selected in 'Follow What'. Press [YES].



4.16 Intelligent Set

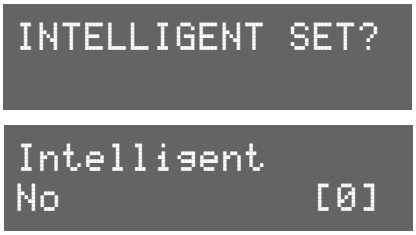
When the 'Intelligent Set' function is enabled, the EURO control panel will set in Area B but if a final exit input is activated (such as a front door) that is programmed on Area A, the EURO control panel will automatically start setting Area A.

If no Final Exit input is activated during Area B's setting time, the EURO control panel will just set Area B.

NOTE: The user code/tag/keyfob must be assigned to both Areas A and B.

Intelligent Set Programming

1. Press [B] or [NO] to scroll to 'INTELLIGENT SET'. Press [YES].
2. 'Intelligent' will be displayed. Use [B] or [D] to enable / disable intelligent setting.
3. Press [YES] to return to the Engineer menu.



4.17 Site Options

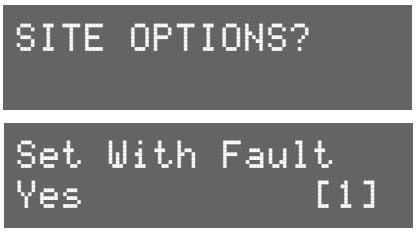
A full range of site options is available to tailor the operation of the system.

Option	Function
Set With Fault	If '**YES'**: Allows setting with the following faults active: Device fail, Mains fail, Battery faults, Fuse faults, SMS failure, relay sirens 1&2, relay Strobe faults.
Set With Tamper+	If '**YES'**: Allows setting with the following faults active: Case tamper and System tampers.
Set With ATS Fault	If '**YES'**: Allows setting with the following faults active: Telecom line fail, Modem failed, STU/ATE line fault, STU/ATE one path fail, Digi dial fail, STU/ATE comms fail.
Set With Ward TFault	If '**YES'**: Allows a ward to be set if mains, battery, telecom line, or other system fault is present.
Set Fail = Alarm	If '**YES'** = A graduated alarm will be generated when 'Set Fail' timer expires (Refer to 'CHANGE TIMERS'), if exit procedure is still incomplete. Set fail output will trigger. If '**NO'** = Exit time will continue until the Exit route is clear.
Do Bat Load Test	If '**YES'**: Programmes the system to perform a full load test of the battery at 7.00am each day.
Ward Misoperation	If '**YES'** Allows a Misoperation (Abort) signal to be generated without the entry of a valid code into the system when a ward is operated after an alarm.
Strobe/Squawk at set	If '**STROBE'**: A 'STROBE ANY' output will be activated for 5 seconds as the system arms. If '**SQUAWK'**: A 'SIREN ANY' output will be activated for 5 seconds as the system arms. If '**BOTH**' then both of the above will activate for 5 seconds as the system arms. *Use with care, in view of potential security risk.*
Re-Arm Omits	If '**YES'**: At rearm at the end of the confirmation time, this function will force an input (not a system tamper) causing an unconfirmed alarm to be omitted, whether it's still in fault or not.
Use Level Set	If '**YES'**: The system becomes a 'level set' (Having one area set only at any one time, e.g. part sets). If '**NO'**: The system becomes a 'area' system (setting more than once area at a time)
Confirmed When	**Final Set**: Confirmed signal only available after the system is set. **Exit Starts:** Confirmed signal available after the exit time has started. *NOTE: Not compliant with BS8243.* Note: 'Exit Starts' must be selected in order for it to be entered in the logs.
AutoSet Force	If '**YES'** when autoset is in use the panel will still set even if an input is open at the time.
Restrict PIN Use	If '**YES'** the system prevents a pin code being entered on the Entry Time, but allows the system to be silenced once in alarm. *Enable when BS8243 option 6.4.5 is in use.*
Simple Set	Enables the 'simple set' functionality which allows a user to set the system by pressing the 'YES' key and the level set. PLEASE NOTE THIS FEATURE IS NOT UK COMPLIANT
Invert ATE O/Ps	If '**YES'**: 'Positive Removed' If '**NO'**: 'Positive Applied'
Common Lobby	If set to '**YES'**, this will automatically select the 'highest' exit mode for all partitions. (0 = Timed, 1 = Final Door, 2 = Timed/Final Door, 3 = PTS). For example, if Area C is selected as Final Door and the rest of the partitions are selected as Timed, then because Final Door

	is 'higher' than Timed (Final door is 1 and Timed is 0), all partitions will be set to Final Door. If set to '**NO'** the Exit Modes will be individually programmable to each area.
Flexi Unset	If set to '**YES'**, this will allow all codes with Flexi-Set attribute enabled to pick and choose which partitions to set/unset during entry time. *This option should always be selected when BS8243 option 6.4.5 is in use*
2 Key HU	2 Key Hold Up Alarm at the keypad. The 1 and 7 keys, pressed simultaneously to produce a hold up. **None:** Inactive. **Silent:** Silent Hold Up. **Bells Only**: Bells Only (No signalling). **Both:** (Signalling and Bells) EURO keypads do not comply with ACPO requirements for this facility to be used for police calls.
Extl ATE Inputs	Permits selection of inputs to ATE pins to suit 'ATE' (including Red Care Reset), 'DigiCom' (including Telback), 'Relay Interface Monitoring' or 'Not Used'. *Note: This option must be set to 'ATE' or 'Digi' in order for Line Fault, etc. monitoring to function. This option is NOT required for use with the digi-modem.*
Tag Opens Doors	Used in conjunction with "Entry Control" in Assign Keypads/Readers (Page: 17). If set to 'No' – any reader assigned for 'entry control' will set/unset as normal, and any doors on the system are open when the system is unset. If set 'Yes' the readers control the setting/unsetting and doors.
Set with Polling Fault	If '**YES**' the system will set regardless if there is a wireless 'polling' fault or not (a wireless device can no longer communicate with the wireless ZEM).
Fob Unset Entry	If **'YES'**, then the wireless key fob will only be able to unset the system after the entry door has been opened and the entry timer has started. This option is to stop anyone unsetting the system from outside the protected premises. If **'NO'**, then the key fob will always be able to disarm the system from outside the protected premises.
Wireless Bell Supervision	If '**YES**' then the wireless bell will go into alarm if it can no longer communicate with the Wireless ZEM.
Download if Set	If '**YES**' then upload/downloading will be possible regardless if the panel is set or unset.

Site Options Programming

1. Press [B] or [NO] to scroll to 'SITE OPTIONS'. Press [YES].
2. 'Set With Fault' will be displayed. Use [B] or [D] to enable/disable each option and press [YES]. Repeat for all functions. The Engineer menu will be displayed once all functions have finished.



4.18 Engineer Reset Options

The Engineer Reset Options are used so that once an alarm has occurred; the EURO control panel system can only be reset by an Engineer code, anti-code or red care reset from an Alarm Receiving Center (ARC).

4.18.1 Engineer Restore of Intruder

If 'UK Intruder', an Engineer code must be used to reset the EURO control panel after an alarm. 'Secure Intruder' should not be used.

4.18.2 Engineer Restore of Hold Up

If 'YES', an Engineer code must be used to reset the EURO control panel after an Hold Up, Input Hold Up, or Duress activation.

4.18.3 Engineer Restore of Tamper

If 'YES', an Engineer code must be used to reset the EURO control panel after a tamper activation.

4.18.4 Engineer Restore of Soak

If 'YES', an Engineer code must be used to reset the EURO control panel after an input that is on 'soak' has triggered when the EURO control panel is set.

4.18.5 Engineer Restore of Confirmed

If 'YES', an Engineer code must be used to reset the EURO control panel after a confirmed alarm has occurred.

4.18.6 Engineer Restore of Faults

If 'YES', an Engineer code must be used to reset the EURO control panel after the following faults: ATE telecom fail, Modem fail, ATE single path fail, Telecom line fail, Battery disconnect, Batt charge, Battery load, Excessive charge, Battery critical and Device fail.

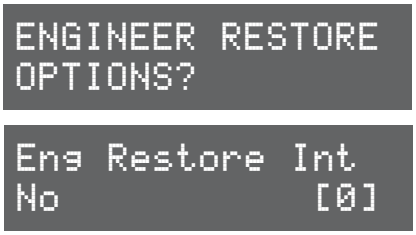
4.18.7 Anti-Code Restore

If 'YES', the EURO control panel will display an Anti-Code, to which can be used to generate a special reset code (usually from the ARC) to reset the EURO control panel.

NOTE: that if Anti-Code is selected, this will coincide with the options that have been selected previously. For example, if 'Engineer Restore Intruder' is selected, and Anti-Code is selected, then an anti-code will be produced on intruder activation.

Engineer Reset Options Programming

1. Press [B] or [NO] to scroll to 'SITE OPTIONS'. Press [YES].
2. 'Engineer Restore Intruder' will be displayed. Use [B] or [D] to enable/disable each option and press [YES]. Repeat for all functions. The Engineer menu will be displayed once all functions have finished.



4.19 Review Logs

The control panel has two Event Logs, which are time and date stamped. The first log which is a panel log, records all events that occur on the EURO control panel, i.e. Users entering their codes to set or unset areas, alarm events, failures to set etc.

The second log which is an access log, only records access control events.

4.19.1 Panel Log

The Panel log records all events that occur on the EURO control panel, i.e. Users entering their codes to set or unset areas, alarm events, failures to set etc. Pressing [C] will give more information of the display (for example, shows which user unset the EURO control panel).

4.19.2 Access Log

The Access log records all events for Access Control events.

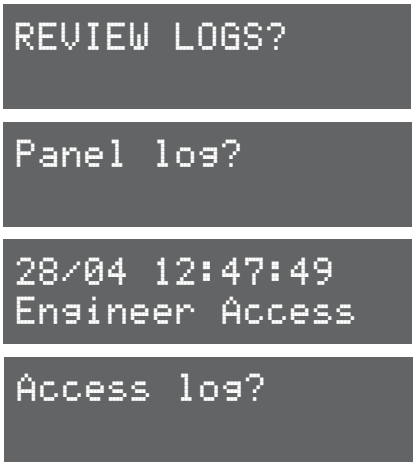
With each log, use the [D] key to move from one event to the previous event. The [B] key will move from one event to the next event that occurred.

To view additional details, press the [C] key. If no other information is available, the display will move to the next log entry. Pressing the [A] key will return to the main screen for that entry.

NOTE: For all Fault Codes refer to Appendix F (page 51).

Review Logs Programming

1. Press [B] or [NO] to scroll to 'REVIEW LOGS'. Press [YES].
2. 'Panel log' will be displayed. Press [YES] to display the panel log.
3. The time, date and event will be displayed. Use [B] or [D] to scroll through the event log. If more information is required, for example, if 'Alarm on Input' is displayed, press [C] to show more information (e.g. the input that activated). Press [NO] to exit the Panel log.
4. 'Access log' will be displayed. Press [YES] to display the access log and repeat the operations mentioned above. Press [NO] to exit to the Engineer menu.



4.20 Engineer Tests

The Test function allows the Engineer to test inputs, outputs, batteries and the siren.

4.20.1 Sounds To Play

This function previews all of the different tones the EURO control panel system makes. They have a choice of: Chime, Chime Follow, Exit, Exit Fault, Entry, Tech Fault, Tamper, Alarm, PA, and Fire.

4.20.2 Walk Test

The walk test feature is used to test all the inputs programmed on the EURO control panel. It is recommended that after programming any inputs, the Engineer menu is exited to save all data, after this point a walk test should be performed. The inputs that haven't been activated will be shown on the display. Once all the inputs have been walk tested, 'Walk Test Completed' will be displayed. When walk-testing a double-knock detector, it must be triggered twice within the preset period. When testing dual-trip detectors, the first detector must be triggered and then the second detector; next, open the second detector and trigger the first detector.

4.20.3 Soak Control

Any input may be placed on 'soak test' which monitors the detector without giving an alarm activation. If the chosen input triggers whilst the system is set, it will indicate the activation and enter the details in the event log. The number of days the input is in soak control before the input becomes active can be programmed.

4.20.4 Test Siren

Any outputs programmed as '0014 Siren Any' and '0016 Strobe Any' will be tested.

4.20.5 Do Battery Load Test

The EURO control panel performs a check of the battery operation every 10 seconds, by dipping the power supply voltage momentarily, and measuring the system voltage. If the battery voltage measured is below 8.9V, or the battery fuse has failed, a 'BATTERY FAULT' warning will be generated. The EURO control panel is programmed to perform an automatic battery load test at every power supply at 7.00am each day. This will drop the power supply voltage below the battery voltage, whilst monitoring the system diagnostics. The test will NOT take place if:

- The siren and strobe Output are live
- The EURO control panel is in Engineer Mode
- Any battery faults exists
- Any mains fault exists
- The site option 'Do Battery Load Test' is not selected (refer to 'SITE OPTIONS' (page: 26)).

If the test has already started, it will be aborted if any of these conditions apply, other than entry into Engineer Mode. If the test is aborted, it will NOT be performed until the next day. This is selected in SITE OPTIONS under "Do Battery Load Test". The test may also be performed as required, under Engineer control.

4.20.6 Test Outputs

The Engineer can test all the Programmable Outputs on the Input/Outboard board and the output module.

4.20.7 Test Alarm Data Communications

If the Engineer is using SIA or Contact ID to signal events, this function can be used to send a test signal to the Alarm Receiving Centre. It can also be used to test SMS signaling.

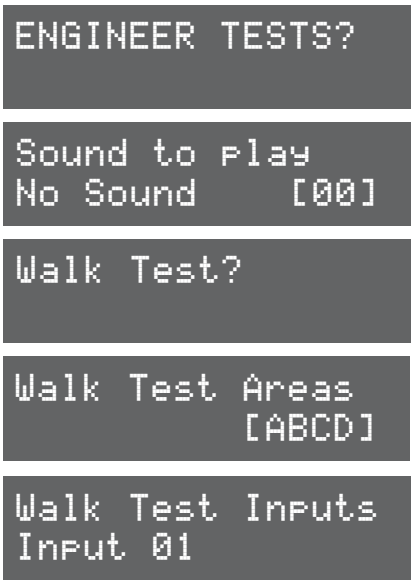
4.20.8 Start CHC SMS Update

If the Engineer has set up SMS text messaging then this function needs to be used (after enabling SMS calls in 'Set up Digi/SMS', the Engineer mode must be exited to save all the data, and then this function must be entered (this function is also in the master manager menu)).

The system will automatically carry out a test call to our Host Computer every **two weeks.** The call is made via a premium rate number and the bill payer should be informed of the charge **(50p per call).** Customers who have "BT Answer 1571" enabled may have difficulty in connecting to the CHC.

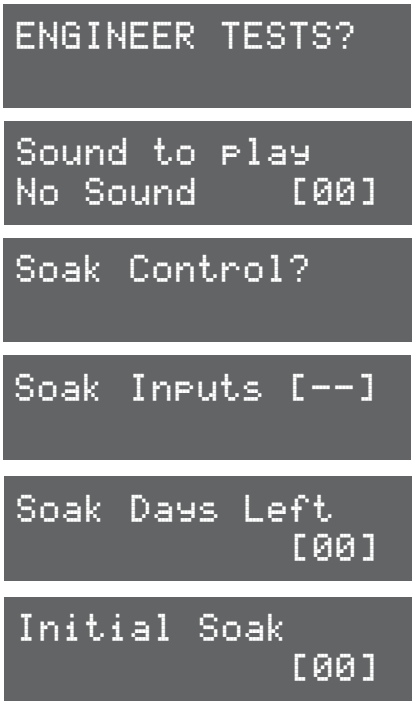
Engineer Tests Programming: Walk Test

1. Press [B] or [NO] to scroll to 'ENGINEER TESTS'. Press [YES].
2. 'Sound to play' will be displayed. Use [B] or [D] to select the different sounds. Press [NO] to exit.
3. 'Walk Test' will be displayed. Press [YES].
4. Select the areas that are required to be walk tested and press [YES].
5. A list of all inputs programmed for that area will be displayed on the keypad. Once an input has been walk tested (i.e. the detector has activated and deactivated) then the input will be taken off the list.
6. Once all inputs have been tested, 'Walk Test Completed' will be displayed. To exit the walk test function at any time press [NO].
7. Press [NO] again to go back to the Engineer menu.



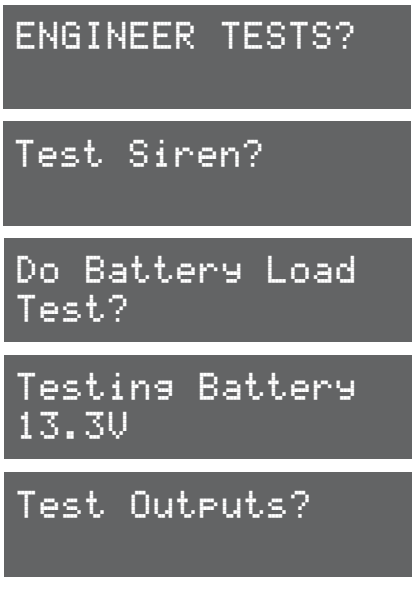
Engineer Tests Programming: Soak Control

1. Press [B] or [NO] to scroll to 'ENGINEER TESTS'. Press [YES].
2. 'Sound to play' will be displayed. Press [NO].
3. 'Walk Test' will be displayed. Press [NO].
4. 'Soak Control' will be displayed. Press [YES].
5. Select the inputs that are required to be soak tested. Each input should be entered, following by [YES]. Press [NO] once finished.
6. 'Soak Days Left' will be displayed. Select the number of days that the inputs will be left on soak test and press [YES].
7. 'Initial Soak' will be displayed. Enter the number of days the soak test will revert to in the event a soak input is triggered during testing. Press [YES].
8. Press [NO] to go back to the Engineer menu.



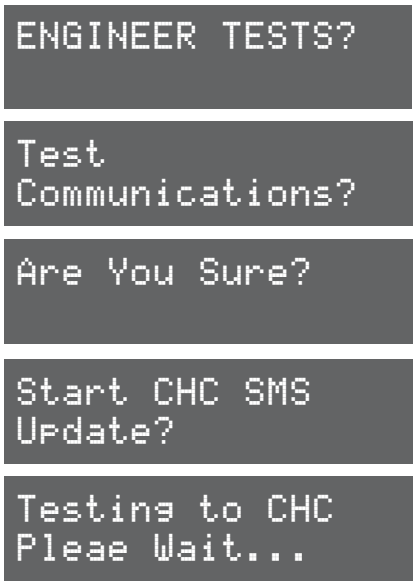
Engineer Tests Programming: Test Siren, Battery Load Test and Test Outputs

1. Press [B] or [NO] to scroll to 'ENGINEER TESTS'. Press [YES].
2. 'Sound to play' will be displayed. Press [NO].
3. 'Walk Test' will be displayed. Press [NO].
4. 'Soak Test' will be displayed. Press [NO].
5. 'Test Siren' will be displayed. Press [YES]. Any outputs programmed as 'Siren Any' and 'Strobe Any' will trigger. Press [NO] to exit.
6. 'Do Battery Load Test' will be displayed. Press [YES] to perform a battery load test, the voltage will be displayed, followed by 'Battery Passed' if the test has been successful. Press [NO].
7. 'Test Outputs' will be displayed. Press [YES] to perform a test on any output type. For example if '0006' is entered, and the [YES] key is pressed, a 'Confirmed Any' test will be activated. Press [NO] to cancel the test.
8. Press [NO] to go back to the Engineer menu.



Engineer Tests Programming: Test Communications and Start CHC SMS update.

1. Press [B] or [NO] to scroll to 'ENGINEER TESTS'. Press [YES].
2. 'Sound to play' will be displayed. Press [NO].
3. 'Walk Test' will be displayed. Press [NO].
4. 'Soak Test' will be displayed. Press [NO].
5. 'Test Siren' will be displayed. Press [NO].
6. 'Do Battery Load Test' will be displayed. Press [NO].
7. 'Test Outputs' will be displayed. Press [NO].
8. 'Test Communications' will be displayed. Press [YES] to send a test signal to the ARC.
9. 'Testing to CHC' will be displayed. Press [YES] to send a test signal to the Castle Host Computer.
10. Press [NO] to go back to the Engineer menu.



4.21 Diagnostics

The EURO control panel diagnostic function shows all system readings, including power supplies, input status, wireless signal and wireless battery status.

The diagnostic resolution is: Voltage: 0.1V, Current: 0.01A.

4.21.1 View PSUs

This function shows all power readings for; the endstation, any ZEMs, any output expanders, any keypads and readers.

4.21.2 View Inputs

This function shows all the input statuses on the EURO control panel (including Wireless and any expanders connected). The resistances can be shown, or just the status; **C** = Closed, **O** = Open, **T** = Tamper, **-** = Not learnt and **F** = Resistance fault. For wireless inputs; **S** = Supervision fault. **B** = Battery fault.

4.21.3 View Wireless Device Status

If a wireless ZEM (EURO-ZEM32-WE) is installed on the EURO control panel, this function will show the signal strength and battery levels of all wireless peripherals that are learnt.

Signal Strength

One of the most important factors for a reliable wireless installation is the signal strength between a wireless device and the EURO control panel. If a device is out of range it will not be able to send events.

The EURO control panel has an advanced signal strength technology that operates by monitoring all inputs/bells after 5 minutes from the initial test, it will then perform test this every 16 seconds.

The signal strength results are displayed on the keypad and the device, making this test very simple and accessible.

For a reliable installation check that a "good" or "excellent" install result is received from each test.

NOTE: When monitoring signal strength for a device, it is recommended that the device is in the final installation position, and also in the 'worst case scenario' for example with all doors and roller shutters closed etc. The following will be displayed:

'?' = Waiting for device signal strength information (please note this may take up to 5 minutes during its initial test)

3 = Excellent signal

2 = Good install position.

1 = Weak install position (reposition and retest)

0 = Missing (reposition and retest)

IMPORTANT! DO NOT INSTALL DEVICES WHEN 1 (Weak) or 0 (Missing) IS SHOWN

Each input/siren device is tested every 15 seconds, and activating an input will do an immediate test. Each device also has status LEDs. Device Status GREEN is equivalent to 3 & 2 above.

Device Status RED is equivalent to 1 above.

GREEN = GOOD, **RED** = BAD. **All LEDS** = Starting test

For a more descriptive reading, press [YES] again on the EURO control panel keypad when the status (above) is shown. The following will be displayed:

Excellent [50 to 100] = OK to install

Good [30 to 49]= OK to install

Weak [0 to 29] = Not OK to install

Missing (no number is displayed) = Not OK to install

Wireless Battery Strength

The diagnostics function also monitors the battery of each input and bell so that any low/bad batteries can be recognised and replaced. The following will be displayed:

Testing = Waiting for a Battery result

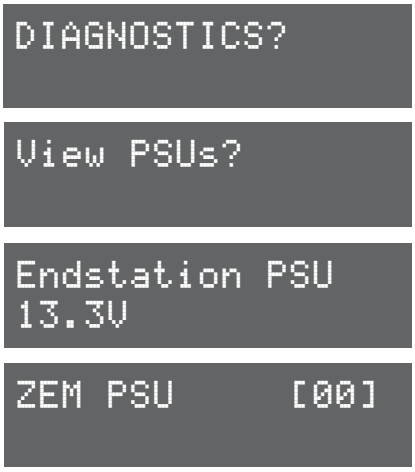
Good = At least 1 month of battery life remaining

Replace = Battery Needs To Be Replaced Immediately

Each input / bell device is tested every 15 seconds.

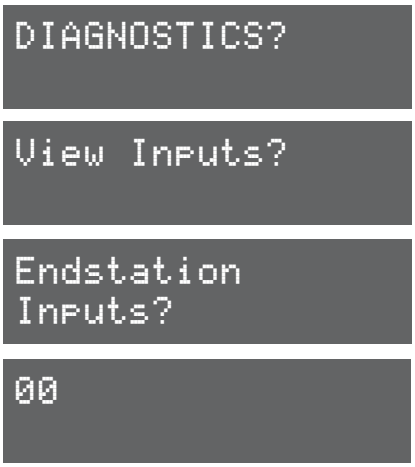
Diagnostics Programming: View PSUs.

1. Press [B] or [NO] to scroll to 'DIAGNOSTICS'. Press [YES].
2. 'View PSUs' will be displayed. Press [YES].
3. 'Endstation PSU' will be displayed and the power supply reading of the EURO control panel will be shown. Press [YES].
4. 'ZEM PSU' will be displayed. Enter the address of the ZEM installed. The power supply reading will be displayed and press [YES].
5. Repeat the above for any Output expanders, keypads and readers installed. Press [NO] to return to the sub-menu.



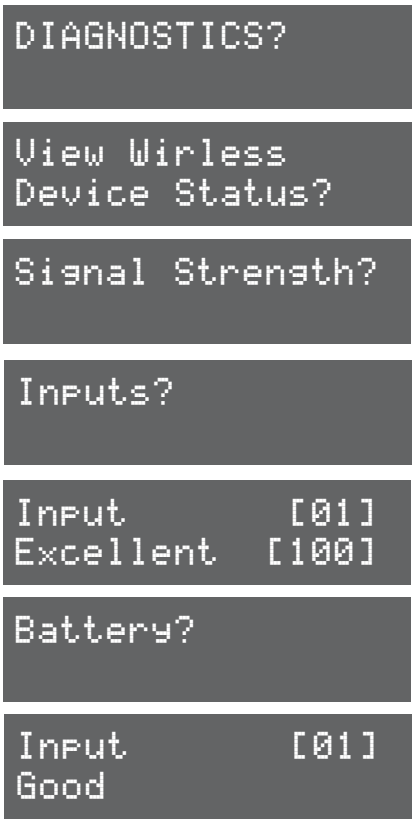
Diagnostics Programming: View Inputs.

1. Press [B] or [NO] to scroll to 'DIAGNOSTICS'. Press [YES].
2. 'View PSUs' will be displayed. Press [NO].
3. 'View Inputs' will be displayed. Press [YES].
4. 'Endstation Inputs' will be displayed. To view the Endstation Inputs press [YES]. The status will be displayed. Press [YES] again to view the resistance values. Press [NO] to return to the sub-menu.
5. Repeat the above for the sub-menu's 'Wireless Inputs', and 'ZEM Inputs' (selecting the address first). Press [NO] to return to the sub-menu.



Diagnostics Programming: View Wireless Device Status.

1. Press [B] or [NO] to scroll to 'DIAGNOSTICS'. Press [YES].
2. 'View PSUs' will be displayed. Press [NO].
3. 'View Inputs' will be displayed. Press [NO].
4. 'View Wireless Device Status' will be displayed. Press [YES].
5. 'Signal Strength' will be displayed, press [YES], or [NO] to jump to 'Battery'.
6. 'Inputs' will be displayed in the Signal Strength Menu, press [YES].
7. 'Please Wait' will be displayed and a countdown of 300 will start. This process will take a few minutes. The display will then show the signal strength, to show a detailed signal strength view press [YES] on this screen. Use [B] or [D] to scroll through each input (or alternatively enter the input number). Press [NO] to exit.
8. 'Bells' will be displayed. Repeat the above for the Bell signal strength. Press [NO] to return to the sub-menu.
9. 'Battery' will be displayed. press [YES] to view the battery status of all wireless inputs and bells. Repeat as mentioned above. Press [NO] to return to the Engineer menu.



4.22 Set Up Downloading

The EURO control panel system has uploading and downloading capability. The EURO control panel 'InSite' upload/ download software allows the monitoring of the status of each input, alter programming, and review the logs. This software is available to download from www.pyronix.com under 'downloads'. When this section refers to 'dials the software', this means the PC that the software is installed.

4.22.1 Download By

A download from the EURO control panel to the PC can be done either by RS232 or Modem. Refer to the installation manual (RINS1529) for more information.

4.22.2 Security Mode

When creating a customer in the 'InSite' software, it is important that the EURO control panel telephone number is programmed both in the software and the EURO control panel (in this menu).

[0] Auto Answer: Allows the software to dial into the EURO control panel at any time.

[1] Panel Dials: This does not allow the software to dial into the EURO control panel at all. All modes allow the EURO control panel to dial the software without restriction. At any time, the EURO control panel can be forced to dial the software by entering the Master Manager menu and selecting 'DIAL OUT MENU'.

[2] Dial Back: When dialing the EURO control panel, click the 'Dial Customer' option in the software and the PC be called. Once answered, both the EURO control panel and the software will hang up. After a few seconds the EURO control panel will call the software and connect.

4.22.3 Telecom Line

[0] Dedicated Line: When the software dials the EURO control panel, it will answer immediately.

[1] Shared Line: When the software dials the EURO control panel, it will hang up after the primed number of rings. The software will then redial the EURO control panel for it to answer in its primed state.

4.22.4 Number of Rings to Prime

[01]-[15] = This is the number of rings (audibile 'rings' in the phone call) to prime the EURO control panel when the EURO control panel is installed on a shared telephone line (see 'Shared Line' above).

4.22.5 Roving Dial

This option (when set to 'No') prevents anyone dialling into the panel using roving dial from the software. To comply with DD263:2010 this option must be defaulted to 'No'.

4.22.6 Modem Speed

For future use. Make sure this is set to [1] HIGH.

4.22.7 Prefix Tel No

If, for example a '9' is required to dial an 'outside' line, this must be entered here.

4.22.8 ARM PC Telephone Number

This is the phone number of the PC modem where the software is installed for performing the 'Automatic Remote Maintenance' (ARM) service. Press [A] button to add any symbols: ',' = 2 second pause, '+' for roaming calls. This is used in conjunction with the **'DIAL OUT MENU'** function (refer to page: 37).

4.22.9 Program PCs

Up to 4 x PC modem numbers may be programmed, i.e. the software maybe installed on four different PCs (office PC, home PC, etc). These are selected in the 'Dial Out Menu' in the Master Manager menu (refer to the user manual (RINS1527)).

The signalling events are unique to each PC modem number.

Send Alarms: If enabled, the panel will report 'alarm' events to the PC running UDL software.

Send Faults: If enabled, the panel will report any 'fault' events to the PC running UDL software.

Send Set / Unset: If enabled, the panel will report 'open/close' (set/unset) events to the PC running UDL software.

Send Access Control: If enabled, the EURO control panel will report any 'access control' events to the PC running UDL software.

4.22.10 UDL Password

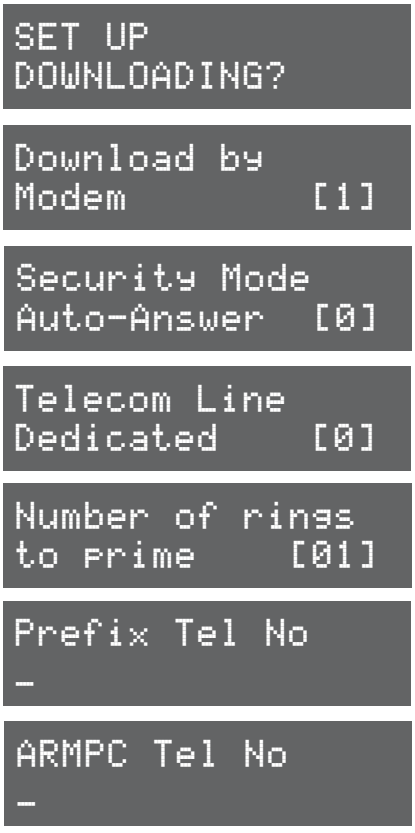
This password is used to identify the UDL connection. Make sure the password here and on the software are the same.

4.22.11 Redials

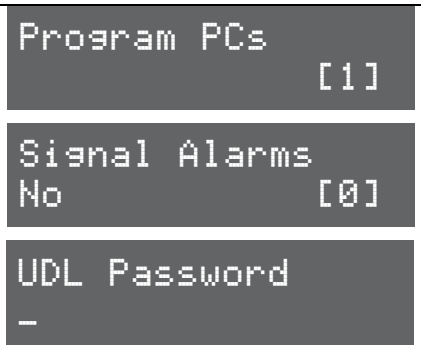
The number of redials that it will call to the software before it fails.

Set Up Downloading Programming

1. Press [B] or [NO] to scroll to 'SET UP DOWNLOADING'. Press [YES].
2. 'Download by' will be displayed. Use [B] or [D] to scroll through the different options and press [YES] to select.
3. 'Security Mode' will be displayed. Use [B] or [D] to scroll through the different options and press [YES] to select.
4. 'Telecom Line' will be displayed. Use [B] or [D] to scroll through the different options and press [YES] to select.
5. 'Number of Rings to Prime' will be displayed. Enter the number of rings and press [YES].
6. 'Roving Dial' will be displayed. Use [B] or [D] to enable or disable the roving dial. Press [YES].
7. 'Modem Speed' will be displayed. DO NOT ALTER. Press [YES].
8. 'Prefix Tel No' will be displayed. Enter any prefix number if required and press [YES].
9. 'ARMPC Tel No' will be displayed. If 'Automatic Remote Maintenance' is being used, enter the PC modem number here and press [YES].
10. 'Program PCs' will be displayed. Select the PC number and press [YES]. Enter the modem number and press [YES].



11. 'Signal Alarms' will be displayed. Use [B] or [D] to enable or disable the signalling events. Repeat for 'Signal Faults', 'Signal Set/Unset' and 'Signal Access Control'. Press [NO] to exit the 'Program PCs' sub-menu.
12. 'UDL Password' will be displayed. Enter the software password if required. press [YES].
13. 'Redials' will be displayed. Enter the number of redials and press [YES], the Engineer menu will be displayed.



4.23 Program ARC / SMS?

A PSTN modem can be connected to the EURO control panel and will signal Fast Format or SMS.

4.23.1 Program ARC/SMS Calls

Enabling the ARC/SMS will trigger the EURO control panel to look for a modem. Up to 4 Alarm Receiving Centre (ARC) Numbers can be programmed and each number may be active or inactive.

Formats:

[000] Fast Format 4.8.1. **[001]** Fast Format 6.8.1. **[002]** Fast Format 4.16.1.

[003] Fast Format 6.16.1. **[004]** RS232 Tx. **[005]** Scope Pager. **[128]** SIA Level 1. **[129]** SIA 3. **[130]** Contact ID. **[133]** SMS Message. **[134]** SMS-UBS. **[141]** WebWayOne. **[142]** Chiron **[144]** DualCom Inside.

A maximum of 4 ARCs may be programmed to signal Fast Format. 2 telephone numbers can be programmed for each of the ARCs.

1 mobile number can be programmed for SMS.

NOTE: There is a "ARC/SMS" number that is defaulted to the Vodafone Bureau number and must not be deleted.

If signalling to an ARC, an account code will need to be entered.

Channels:

If signalling to an ARC, the Digi Channels will need to be selected (1-8). These can be programmed in the 'Programming Digi Channels' function.

If signalling using SMS, the event types must be programmed. Refer to Appendix E (page 50) for a full list of the event types. Most common event type scenarios are as follows:

Basic SMS: Content types: 6 and 28 for Area A only.

Basic SMS with special unsets: Content types: 3, 6 and 28 for Area A only.

Full SMS: Content types: 1,6,12,27, and 28 for Area A only.

Basic Contact ID or SIA: Content types: 6,7,8,13,28 and 30 for all used areas.

Full Contact ID or SIA: Content types: 1,12,6,7,8,13,28 and 30 for all used areas.

Extended Contact ID or SIA: Content types: 1,12,5,7,8,13,,25, 28 and 30 for all used areas.

NOTE: Do not use content type 10 when using SMS.

Redials: Select the number of redials that are required [0]-[15].

Time Out: Select the time that the EURO control panel will wait for a reply.

Low Battery Report: Enables or disables low battery reporting.

Test Calls: If 'Time of Day' is selected, then the time will need to be entered when a test call is required.

NOTE 1: Inform the user that Signalling and SMS costs will incur and they should contact their network provider if they have any questions.

NOTE 2: The more content types enabled, and the more areas enabled, the more costs will incur.

NOTE 3: To add a pause when programming a telephone number, press [A] until a comma is displayed.

4.23.2 Programming Digi Channels

The communication protocol 'Fast Format type 4.8.1' is commonly used for BSIA Fast Format signalling. The channels for Fast Format can be individually programmed in this function. Each channel uses a programmable output number (refer to page: 47).

NOTE: The communicator "status channel" (channel 0) is used for low voltage and test calls.

4.23.3 Set up GPRS

If a GPRS module is connected the GPRS APN, User ID and Password must be entered.

4.23.4 Advanced SMS Details

This function is used to enter an 'Account Reference' if required when using SMS messaging.

There is a 'Manufacturer's Access' area that can be used to change the 'Castle Host Computer' (CHC) number. To have this access please contact customer support.

4.23.5 Prefix Number

The prefix telephone number is an extra digit required to reach the EURO control panel if needed, For example, dial 9 to get an 'outside' line.

4.23.6 3 Way Calling

For future use.

Program ARC/SMS: Fast Format Programming

1. Press [B] or [NO] to scroll to 'PROGRAM ARC/SMS'. Press [YES].
2. 'Program ARC/SMS Calls will be displayed. Press [YES] to program the SMS numbers and event types.
3. 'ARC/SMS is' will be displayed. Use [B] or [D] to enable or disable signalling and press [YES].
4. 'ARC Details' will be displayed. Select the ARC account to be programmed (1-4) and press [YES].
5. 'Active' will be displayed. Use [B] or [D] to enable or disable the ARC number and press [YES].
6. 'Format' will be displayed. Enter [000] for FAST FORMAT and press [YES].
7. '1st ARC/SMS' will be displayed. Enter the primary ARC number and press [YES].
8. Second Number' will be displayed. Enter the backup number if required and press [YES].
9. 'ARC Account' will be displayed. Enter the account code that the ARC has given and press [YES].
10. 'Channels 1-8' will be displayed. Select the channels that will be required to be signaled and press [YES]. Repeat for restores and press [YES].
11. 'Redials' will be displayed. Enter the number of redials required if the number programmed is not answered and press [YES].
12. 'Time Out' will be displayed. Enter the time and press [YES].
13. 'Low Battery Report' will be displayed. Use [B] or [D] to enable or disable the ARC number and press [YES].
14. 'Test Calls' will be displayed. Use [B] or [D] to enable or disable and press [YES].
15. 'ARC Details' will be displayed and another number can be programmed if required. Press [NO] to return to the sub-menu.
16. Press [NO] again and 'Program Digi Channels' will be displayed. Press [YES] to program the digi channels for signaling Fast Format. Refer to page 47 for the output types. Press [NO] to return to the sub-menu.

Program ARC/SMS: SMS Programming

1. Press [B] or [NO] to scroll to 'PROGRAM ARC/SMS'. Press [YES].
2. 'Program ARC/SMS Calls will be displayed. Press [YES] to program the SMS numbers and event types.
3. 'ARC/SMS is' will be displayed. Use [B] or [D] to enable or disable signalling and press [YES].
4. 'ARC Details' will be displayed. Select the ARC account to be programmed (1-4) and press [YES].
5. 'Active' will be displayed. Use [B] or [D] to enable or disable the ARC number and press [YES].
6. 'Format' will be displayed. Enter [133] for SMS messaging and press [YES].
7. '1st ARC/SMS' will be displayed (only if using a Digi-1200 PSTN modem). DO NOT DELETE. Press [YES].
8. 'Mobile Number' will be displayed. Enter the mobile number that receive all signalling events and press [YES].
9. 'Valid Area's' will be displayed. Select the areas that the mobile number will be applicable to and press [YES].
10. 'Content' will be displayed. Select the content types that will be signaled and press [YES]. Repeat for content types 17-32 and press [YES].
11. 'Redials' will be displayed. Enter the number of redials required if the number programmed is not answered and press [YES].
12. 'Time Out' will be displayed. Enter the time and press [YES].
13. 'ARC Details' will be displayed and another number can be programmed if required. Press [NO] to return to the sub-menu. If a pre fix number is required, keep pressing [NO] until 'Prefix Tel No.' is displayed and enter the number and press [YES].

4.24 Dial Out Menu

The Dial Out Menu can be used to dial to a remote PC (rather than the PC dialling the control panel). The modem telephone numbers can be programmed in 'SET UP DOWNLOADING' (page: 33). The following actions can be performed: Connect to PC, Test Dial, Arm Service (The ARM software must be used for this), Data from PC, Data to PC, Diagnostics and Commissions.

4.24.1 Select PC to dial

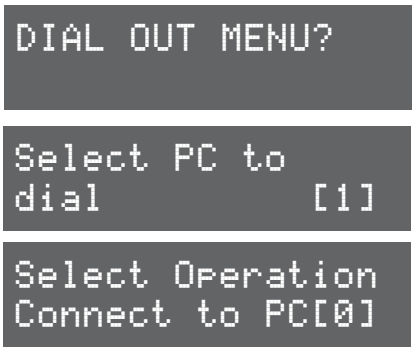
In the EURO control panel function 'Set Up Downloading', the PC number of where the UDL software is installed is programmed. To dial this number, so the EURO control panel connects to the software, use this function.

4.24.2 Select Operation

The following operations are available when dialing to the software:
[0] Connect to PC. **[1]** Test Dial. **[2]** ARM Service**. [3]** Data from PC**. [4]** Data to PC.
[5] Diagnostics **[6]** Commissioning.

Dial Out Menu Programming:

1. Press [B] or [NO] to scroll to 'DIAL OUT MENU'. Press [YES].
2. 'Select PC to dial' will be displayed. Enter the PC number to dial out to and press [YES].
3. 'Select Operation' will be displayed. Use [B] or [D] to select the operation and press [YES] the PC will be dialed.
4. Press [NO] to return to the Engineer menu.



4.25 Clean Start

It is recommended that a factory default (Clean Start) is performed after initial power up to ensure that the correct defaults are applied. Refer to page: 39 for a list of all defaults.

4.25.1 Clear Wireless Data

If this function is not accepted, then all wireless inputs, wireless external sounders will be still active on the EURO-ZEM32-WE (if connected).

4.25.2 Clear Codes

If this function is not accepted, then all codes, tags and keyfobs will be still present on the EURO control panel.

4.25.3 Clear Logs

If this function is not accepted, then all event logs will be still present on the EURO control panel.

If a DualCom Inside module is connected, all the GPRS information can be cleared with the function 'Clear DualCom Inside?'.

NOTE: If everything is defaulted, the system memory will also be restored to factory defaults except the following:

- Keypad address '0' remains enabled at all times & the keypad in use remains enabled
- Additional keypads connected will keep the area information

Clean Start Programming

1. Press [B] or [NO] keys to scroll to 'CLEAN START'. Press [YES].
2. a) Enter the default code **2000** for Grade 3 defaults
   b) Enter the default code **2002** for Grade 2 defaults.
3. 'CLEAR WIRELESS DATA' will be displayed. To delete all wireless data (any inputs and bells that are learned) press [YES], or press [NO] to keep the wireless data.
4. 'CLEAR CODES' will be displayed. To delete/default all user code, tag and keyfob data, press [YES], or press [NO] to keep the codes that are programmed.
5. 'CLEAR LOGS' will be displayed. To delete all event log data press [YES], or press [NO] to keep the event log data.

Appendix A. Defaults

Engineer Menu's	Clean Start 2000 (Grade 3)	Clean Start 2002 (Grade 2)
INHIBIT FIRE / HU?	No [0]	
SOFTWARE REVISION		
CHOOSE MODE		
Detection Mode*	EOL [1]	
EOL Range	4k7/2k2 [1]	
EOL Mode	DR [1]	
Input Response	300ms	
Input XDF*	Normal [2]	
INSTALL ZEMs		
ZEM Address	No [0] (for all ZEM addresses)	
WIRELESS DEVICE CONTROL		
Control Inputs		
Control Bells		
Program Keyfob Buttons		
Lock [1]	Set Area [2]: Area A	
Unlock [2]	Unset Area [3]	
I [3]	Set Area [2]: Area B	
II [4]	Show Status [1]	
Lock + Unlock [5]	No Action [0]	
I + II [6]	Hold up [6]	
Lock + I [7]	No Action [0]	
Unlock + II [8]	No Action [0]	
CHANGE INPUTS		
Inputs	All inputs unused	
Input Area	A (if input programmed)	
Input Areas	Any [0]	
Input Attributes		
Chime	No [0]	
Omittable	No [0]	
Double Knock	No [0]	
Dual Trip	No [0]	
Normally Open	No [0]	
Walk Test	No [0]	
Monitor Activity	No [0]	
Special Log	No [0]	
Paired Input	No [0]	
Confirm Group	[00]	
Input Description		
Enter Name	Input 01	
Enter Location	_	
ASSIGN KEYPADS/READERS		
Address	Address [0]: Keypad [1] Other Addresses: Unused [0]	
Set Point Sets	Area A	
Set Point Unsets	Area A	
Set Point In	Area A	
Set Point Description		
Enter Name	Device 0	
Enter Location		
If programmed as Reader:		
Reader Is:	Set Point [0]	
If programmed as Reader, Entry Control or Access Control	Lock Open Time [005] Door Open Time [010]	
SYSTEM DISPLAYS		
All Areas: Text	Full Set	
Full Area Text	Full	
Sign on Message	Euro One	
Site Name	_	
Display When Set	No [0]	
Display Alarms	No [0]	
Display Hus	No [0]	
Display Inputs	No [0]	
CHANGE TIMERS		

Engineer Menu's	Clean Start 2000 (Grade 3)	Clean Start 2002 (Grade 2)
All Areas: Entry Time 1	[030]	
All Areas: Entry Time 2	[030]	
All Areas: Exit Time	[030]	
All Areas: Siren Time	[15]	
Confirm Time	[30]	
HU Confirm Time	[08]	
Siren Delay	[00]	
Strobe Time	[00]	
Re-Arm No	[3]	
AC Signal Delay	[040]	
Speaker	[00]	
Settle	[005]	
Double Knock	[10]	
Pre-Alarm	[030]	
Line Fault	[020]	
Set Fail	[040]	
Guard Code Alarm	[03]	
Fire Siren Time	[99]	
Set Fail Warning	[00]	
Input NAT Days	[14]	
Input NAT Hours	[00]	
Wireless Supervision Time	[02]	
Wireless Jamming Time	[100]	
Service Time	[000]	
SET DATE & TIME		
Year (00-99)	[07]	
Month (1-12)	[01]	
Day (1-31)	[01]	
Hours (0-23)	[02]	
Minutes (0-59)	[52]	
DST Adjust?	No [0]	
EXIT MODES		
A Exit Mode	Final Door [1]	
All other Exit Modes	Timed [0]	
CHANGE CODES		
5 Digit PINs	Yes [1]	No [0]
Change Duress Codes	All codes empty	
Change Master Manager Code		
Master Manager Code	2222	
User Areas	All Areas	
User Set Options	Unset/Set [0]	
Flexi Set	Yes [1]	
User Name	_	
Change Engineer Code	1111	
VOLUME CONTROL		
All Areas: Entry	4	
All Areas: Exit	4	
Alarm	7	
Fire	7	
Tamper	6	
Day Alarm	6	
Chime	3	
Intelligent Set	3	
Code Stops Sound	Yes [1]	
E/E Keypads Only	No [0]	
Alert Kps Only	Yes [1]	
Silent Tech Alert	No [0]	
ALARM RESPONSE		
Silent 1st Alarm	Never [0]	
Disable Confirm On Entry	No [0]	
All Areas Starts At	Digi [3]	
All Areas Stops At	Confirm [4]	
Fire, Gas, HU Start At	Digi [3]	
Fire Stops At	Digi [3]	
HU Stops at	Confirm [4]	

Engineer Menu's	Clean Start 2000 (Grade 3)	Clean Start 2002 (Grade 2)
Day Alarm Starts	Sirens Only [2]	
Day Alarm Stops	Sirens Only [2]	
CHANGE OUTPUTS		
Endstation Outputs		
Output 1*	Not Used [0000]	
Output 2*	Not Used [0000]	
Strobe O/P	Strobe Any [0016]	
Bell O/P	Siren Any [0014]	
XPGM1 O/P**	Not Used [0000]	
XPGM2 O/P**	Not Used [0000]	
ATE PIN 1	Fire [0001]	
ATE PIN 2	HU Device Any [0009]	
ATE PIN 3	Unconfirmed Any [0018]	
ATE PIN 4	Final Set All [0004]	
ATE PIN 1	Tamper Any [0007]	
ATE PIN 1	Omit Rearm Any [0017]	
ATE PIN 1	Confirmed Any [0006]	
ATE PIN 1	Mains Fail [0052]	
ATE PIN 1	Global Fault 2 [0056]	Global Fault 1 [0055]
ATE PIN 1	Test ATS [0064]	
ZEM Outputs		
ZEM Address		
Output 1-4	Unused [00]	
Wireless Bells		
BELL O/P	Siren Any [0014]	
STB O/P	Strobe Any [0016]	
Output Module Outputs		
OP Mod Address		
OP Mod Installed	No [0]	
Keypad Outputs		
Output 1	Unused [0000]	
Reader Outputs		
Output 1	Unused [0000]	
INTELLIGENT SET		
Intelligent	No [0]	
SITE OPTIONS		
Set With Fault	Yes [1]	
Set With Tamper+	No [0]	Yes [1]
Set with ATS Fault	No [0]	Yes [1]
Set Ward TFault	Yes [1]	
Set Fail = Alarm	No [0]	
Do Bat Load Test	No [0]	
Ward Misoperate	No [0]	
Strb/Sqwk At Set	None [0]	
Re-Arm Omits	No [0]	
Use Level Set	No [0]	
Confirmed When	Final Set [0]	
Autoset Force	No [0]	
Restrict PIN Use	No [0]	
Simple Set	No [0]	
Invert ATE O/Ps	Yes [1]	
Common Lobby	Yes [1]	
Flexi Unset	No [0]	
2 Key HU	None [3]	
Extl ATE Inputs	None [3]	
Tag Opens Doors	No [0]	
Set with Poll Fault	No [0]	
Fob Unset Entry	Yes [1]	
Wireless Bell Supervision	Yes [1]	
Download if Set	No [0]	
ENGINEER RESTORE OPTIONS		
Engineer Restore Intruder	No [0]	
Engineer Restore Hold Up	No [0]	
Engineer Restore Tamper	Yes [1]	No [0]
Engineer Restore Soak	No [0]	

Engineer Menu's	Clean Start 2000 (Grade 3)	Clean Start 2002 (Grade 2)
Engineer Restore Confirmed	Yes [1]	
Engineer Restore Faults	No [0]	
Anti-Code Restore	No [0]	
REVIEW LOGS		
ENGINEER TESTS		
DIAGNOSTICS		
SET UP DOWNLOADING		
Download By	None [0]	
PROGRAM ARC/SMS		
Program ARC/SMS Calls		
ARC/SMS is	Disabled [1]	
Active	No [0]	
Format	Fast 4.8.1 [000]	
1st ARC/SMSC		
Second Number		
ARC Account		
Channel 1-8	…..6..	
Restore 1-8	……..	
Redials	[03]	
Time Out	[30]	
Low Battery Report	No [0]	
Test Calls	No [0]	
Program Digi Channels		
Digi Channel 1	Fire [0001]	
Digi Channel 2	HU Device Any [0009]	
Digi Channel 3	Unconfirmed Any [0018]	
Digi Channel 4	Final Set All [0004]	
Digi Channel 5	Tamper Any [0007]	
Digi Channel 6	Omit Rearm Any [0017]	
Digi Channel 7	Confirmed Any [0006]	
Digi Channel 8	Mains Fail [0052]	
Digi Channel 9	Global Fault 2 [0056]	Global Fault 2 [0055]
Digi Channel 10	Test ATS [0064]	
Digi Channel 11-16	Not Used [0000]	
Setup GPRS?		
GPRS APN?		
GPRS User ID?		
GPRS Password?		
Advanced SMS Details		
Prefix Tel Number	_	
Account Ref	_	
3 Way Calling	No [0]	
DIAL OUT MENU		
Select PC to dial	[1]	
Select Operation	Connect to PC [0]	
CLEAN START		
EXIT ENGINEER MENU		

**Not available on the EURO 46*

***Not available on the EURO 162/280*

Appendix B. Input Types

Number & Type		Operation
00	**Unused**	*Factory default.* Input is programmed out of operation.
01	**Fire**	Active at all times. Audible response: Full (differentiated). Communicator: 'Fire' signal.
02	**Gas**	Active at all times. Audible Response: Full (differentiated) Communicator: 'Gas' signal.
03	**HU#**	Active at all times. Audible Response: Full (differentiated) Communicator: 'Hold Up' and 'Input HU' signals.
04	**Silent HU#**	Active at all times. Audible Response: None Communicator: 'Hold Up' and 'Input HU' signals.
05	**Tamper**	When unset: Audible Response: Internal only Communicator: 'Tamper' signal. When set: Audible Response: Full (differentiated) Communicator: 'Tamper' and 'Unconfirmed' signals.
06	**Intruder**	Active when set. Audible Response: Full Communicator: 'Intruder' and 'Unconfirmed' signals.
07	**Final Exit (FX)#**	Active when set – initiates entry timer if system not unset before entry time expires: Audible Response: Full. Communicator: 'Intruder' and 'Unconfirmed' signals.
08	**Entry Route (ER)**	Active when set, except during entry time. Audible Response: Full. Communicator: 'Intruder' and 'Unconfirmed' signals.
09	**ER (Part FX)**	When fully set (A), acts as Entry route input, as above. When part set (B,C,D), acts as Final Exit input, as above.
10	**FX (Part ER)**	When fully set (A), acts as Final Exit input, as above. When part set (B,C,D), acts as Entry route input, as above.
11	**PTS**	Active during exit time to complete Setting procedure No audible or communicator response. **NOTE:** May be used to act as 'doorbell' by use of 'chime' attribute.
13	**Day Alarm**	When armed: Audible Response: Full; Communicator: 'Instant' signals. When disarmed: Audible Response: Programmable; Communicator: '24hr Alarm' signal (if programmed in Alarm Responses menu).
15	**Ward Control**	Active when armed or disarmed. Communicator: Ward Armed/Disarmed event. The ward can be set or unset by proximity tag or input where a keyswitch can be wired. To each ward can be allocated a number of inputs creating the ward configuration. Refer to 'Ward Control' (page: 19) for more information.
16	**Fault**	When armed: Audible Response: Full; Communicator: 'Instant' signals. When disarmed: Audible Response: Programmable; Communicator: '24hr Alarm' signal (if programmed in Alarm Responses menu).
17	**Closure Supervision**	Active during setting procedure. No audible or communicator response. Prevents system being set whilst active.
18	**Shunt Input**	Active at all times: No audible or communicator response. It is possible to associate inputs to the shunt input. It normally is connected to a key-switch (or equivalent) and when On or Off it shunts or un-shunts the inputs assigned to it. Associated outputs are available to follow this input type. Creating a Shunt Group: A shunt group may consist of any number of inputs programmed as Instant, Tamper, 24hr and Follow types. These must all be allocated in the same area. **NOTE**: These inputs will need to be programmed before allocated to the shunt input. The inputs in the shunt group/list will only activate after 10 seconds of the nominated shunt input. **Example**: If input 1 is programmed as 'Shunt Input', and inputs 2 and 3 are programmed as "24hr", then once input 1 has been opened, after 10 seconds inputs 2 and 3 become active. Action 1: Shunt Input closed Status: Inputs within the shunt list are Shunted (Disarmed) Outputs: 'Follow Input' PGM output On Action 2: Shunt Input opened Status: After 10 seconds inputs in the shunt list are going to activate, i.e. become Unshunted (Armed) Outputs: 'Follow Input' PGM output OFF. The 'Shunt Fault' PGM output is on for 10 seconds. Action 3: Shunt Input opened with active detector from the shunt list Status: After 10 seconds inputs in the shunt list are going to activate, i.e. become Unshunted (Armed) Outputs: 'Follow Input' PGM output OFF. The 'Shunt Fault' (type 36) PGM output pulses until the detector closes.
19	**Unset Input**	Active when set. Accepts input from keyswitch (or equivalent) to unset the assigned area.
20	**Keyswitch Latched***	Accepts input from keyswitch (or equivalent) to Set/Unset the Set modes assigned to it. Setting includes normal exit time, etc. Requires latching action switch.

Number & Type		Operation
21	**Entry Shock Input**	Active when system set. Works in conjunction with EE input type for detection of forced entry. Refer to page 44 for details.
22	**Input Line Fail**	Active when failed. This input type is used to detect external transmission equipment line fail (output). If activated will give a line fault alarm, and will signal telecom line fault on expiry of line fault timer. It can be used in conjunction with CCTV input (type 39)
23	**Keyswitch Pulsed***	Accepts input from keyswitch (or equivalent) to Set/Unset the Set modes assigned to it. Requires momentary action switch to toggle set/unset state.
29	**Interior**	This will work the same as an instant type input, the only difference is that when Contact ID reporting is programmed then any inputs that are programmed as Interior will report Contact ID event 132.
32	**Flood**	This input type will work as a 24hr input, any inputs that are programmed for Flood will activate the external siren.
39	**CCTV**	Active at all times: No audible alarm or communicator response. The CCTV input should be connected to an external detector located next to a CCTV camera. An output can be programmed to follow this input and the output should be connected to a CCTV recording, transmission or other device. An input programmed as "Line Fault" (input type 22) should also be connected to an output of the CCTV transmission Device. If the CCTV transmission line has been cut or missing the 'Line Fault' input will activate. Following to this at each activation of the CCTV input the panel will signal Contact ID events for 'Silent Burglary' and Line Fault. No audible alarm will be created. If the Line Fault is not active it will just log the activations of the CCTV input into the event log.
40	**Perimeter**	This will work the same as an intruder type (06) input, the only difference is that when Contact ID reporting is programmed then any inputs that are programmed as Perimeter will report Contact ID event 131.
41	**Keybox**	This input type will work similar to a switcher input, it does not trigger an alarm but will report Contact ID event 250 and is also a useful input type when an output is required to follow the Keybox type input.
42	**Medical**	This is a 24 Hour type input it will activate the external sounder and report a Contact ID event 100.
43	**Final Exit 2**	Any input programmed as Final Exit 2 will act as input type 07, but the associated entry timer will use Final Exit 2, rather than 1.

*The use of these inputs will make the system unable to comply with EN50131-1 Grade 2 or 3.

#These input types cannot be bypassed.

Entry Shock Input Type (21)

This input type is designed specifically for use with systems installed using BS8243 option 6.4.5.

This input type is always used in conjunction with an Entry/Exit input. The Entry/Exit input is a door contact on the initial entry door, and the Entry Shock input is a **non-latching** shock sensor fitted to the door frame in the vicinity of the lock. If the initial entry door is subjected to gross attack and forced open, then at the expiry of entry time only one further intruder input need to be activated to signal a sequentially confirmed alarm – the Entry Shock input counts as the first to alarm. The Entry/Exit door contact must be opened with 10 seconds of the shock detector triggering for the Entry Shock response to apply. Triggering the Entry Shock input in isolation will NOT generate an alarm of any kind.

Appendix C. Timers

Timer	Function	Range
Entry Time	Entry time for each area. (if programmed as the input type 'Final Exit')	0 – 255 seconds
Entry Time 2	Entry time for each area. (if programmed as the input type 'Final Exit 2')	0 – 255 seconds
Exit Time	Exit time for each area.	0 – 255 seconds
Siren Time	Cut off time for external sounder. Separate for each area.	2 – 15 minutes
Confirm Time	Time period during which a second activation must occur to qualify as 'sequentially confirmed' alarm. **NOTE: BS8243 specifies a confirm time between 30 and 60 minutes.** This also can be used in conjunction with testing an omit signal.	1 – 99 minutes
HU Confirm Time	Time period during which a second activation on a hold alarm must occur to qualify as 'sequentially confirmed' alarm. **NOTE: BS8243 specifies a confirm time between 8 and 20 hours.** This also can be used in conjunction with testing an omit signal.	8 – 20 hours
Siren Delay	Delay after intruder alarm before siren live. Not valid within 3 minutes of final set or after entry time started.	0 - 20 minutes
Strobe Time	Time strobe output remains live after siren time ends. **'99' means endless.**	0 – 99 minutes
Re-Arm No.	Number of times system re-arms after bell time ends. **NOTE: Re-arm number applies to each area, and does not affect emergency alarms. '9' means always re-arm.**	0 – 9
AC Signal Delay	Time delay before mains failure or technical alarm notified. **NOTE: Setting '250' = never alarms. System change-over to battery supply and associated visual alert indication is always immediate.** Some ATE imposes a randomised delay in notifying a mains fail. This should be taken into account when setting this timer.	0 – 250 minutes
Speaker	Time speaker and keypad buzzers remain live after bell time ends, '99' = 'endless	0 - 99 minutes
Settle	Time between final exit input closing, and system setting.	0 - 255 seconds
Double Knock	Length of filter period applied to inputs with 'Double Knock' attribute.	0 – 75 seconds
Pre-Alarm	Delays 'Intruder' output signals if entry time has started. **Pre-alarm time must be set for at least 30 seconds to comply with PD6662**	0 – 255 seconds
Line Fault	Duration of Telecom Line Fault before 'Line Fault' alarm triggered. NOTE: In the case of devices connected via the ATE pins, this time is additional to that already applied by the ATE.	0 – 250 seconds
Set Fail	Time after which 'Set Fail' operation will be invoked if exit procedure not completed.	0 – 255 seconds
Guard Code Delay	Minimum time an alarm must have been present before a 'Guard' code will be accepted to unset.	0 - 10 minutes
Fire Siren Time	Cut off time for fire alarm. '99' means endless.	1 – 99 minutes
Set Fail Warning	Time for which a set fail warning will be present.	0 – 99 seconds
Input NAT Days	NAT stands for Non-Activity Timer. This is used in conjunction with the input attribute 'Non Activity Input', and will monitor the chosen input for the selected number of days. At expiration of timer, and if the input has not opened within that time, then this will be stored in the panel log. Non Activity fault and there will be an output activated if programmed to it. Send SMS message if "Special Log" is on.	0 - 14 days
Input NAT Hours	NAT stands for Non-Activity Timer. This is used in conjunction with the input attribute 'Non Activity Input', and will monitor the chosen input for the selected number of hours. At expiration of timer, and if the input has not opened within that time, then this will be stored in the panel log. Non Activity fault and there will be an output activated if programmed to it. Send SMS message if "Special Log" is on.	00 - 23 hours
Wireless Supervision Time	This option is only applicable if wireless devices are installed. It is the time window before a wireless supervision fault will be signalled. For example: if the time is set for 2 hours, then any device that doesn't communicate with	0-99 hours

Timer	Function	Range
	the wireless ZEM within that period will cause a supervision fault. This must be programmed to 2 hours or less for compliance to EN50131.	
Wireless Jamming Time	This option is only applicable if wireless devices are installed. It is the time window that if a wireless device had its signal 'blocked' a fault would display. For example, if the time is set to 30 seconds, then if a wireless device is 'jammed' longer than 30 seconds a fault will be displayed. This must be programmed to 30 seconds or less (but not zero) for compliance to EN50131.	0-100 seconds
Service Time	This is a timer that can be set in days, and will display a message to the user warning that a service is due. An Engineer code will clear the message.	367 days

Appendix D. Output Types

Type		Active	Restore
0000	**Not Used**	(permanently off)	
0001	**Fire**	At alarm	When a valid code is entered
0002	**Hold Up Any**	At a HU or Duress alarm *(This includes keypad HU)*	When a valid code is entered
0003	**Intruder Any**	At alarm, while system is disarmed	At first valid code entry and at end of confirm time.
0004	**Final Set All**	When system is FULLY armed	At code entry to unset
0005	**Misoperation Any (Abort)**	When system is silenced after any 'intruder' output is triggered	After 2 minutes
0006	**Confirmed Any**	When further input active in any area after 'intruder' alarm	At next code entry
0007	**Tamper Any**	Any tamper alarm	At code entry to silence And at end of confirm time.
0008	**Duress**	At a Duress alarm (i.e. from a keypad)	When a valid code is entered
0009	**HU Device Any**	At alarm on a HU input only	When a valid code is entered
0010	**Gas**	At alarm	When a valid code is entered
0011	**Set Fail**	Pre-set time after start of exit time, if exit procedure is not complete	At code entry to rearm
0012	**Entry Deviation**	When deviation from entry route occurs, during entry time	At code entry to unset
0013	**Secure Intruder Any**	At alarm, after exit time started, until unset	At first valid code entry and at end of confirm time.
0014	**Siren Any**	When alarm live	When alarm silenced or when siren timer expires
0016	**Strobe Any**	When alarm live	When alarm silenced or when strobe timer expires
0017	**Omit Rearm Any**	Input omitted if active (or in alarm condition) at the end of confirmation time.	When system disarmed
0018	**Unconfirmed Any**	Any intruder or Tamper alarm	At code entry to silence
0019	**Can Set All**	If all inputs and technical faults in system are clear. Also once entry time has started	If fault exists, and after final set
0020	**Exit Starts All**	At start of exit time to set LAST area	At code entry to unset FIRST area
0021	**Exit Starts Any**	When exit time starts to set FIRST area	At code entry to unset LAST area
0022	**Final Set Any**	When FIRST area is set	At code entry to unset LAST area
0023	**Strobe Set Fail**	Works similar to output 016, but also fires if the set fail timer expires.	
0025	**Keyswitch unset**	This output turns on for 5 seconds when the system is disarmed via a keyswitch input (pulsed or latched)	
0026	**Set with Omit**	Activates when inputs are omitted on setting	
0028	**Power Fault**	Active during low volts and battery faults*. Restores at code entry after fault cleared.	
0029	**Confirmed Intruder Any**	When more than one intruder alarm activates	At next code entry
0030	**Confirmed Hold Up Any**	When more than one confirmed hold up activates	At next code entry
0031	**Entry**	Live during any exit time	
0032	**Exit**	Live during any entry time	
0033	**Entry/Exit**	Live during any entry or exit time	

Type		Active	Restore
0034	**Lights**	When exit or entry timer starts	20 seconds after set/unset procedure completed
0035	**Follow Input** *Refer to page: 16*	When input triggers	Dependent upon programming
0036	**Shunt Fault**	*Refer to Shunt Inputs (Page: 16)*	
0037	**Restore 1**	At code entry to set	After 3 seconds
0038	**Restore 2**	At code entry to set	When unset
		Re-triggers whenever an additional area is set	
0039	**PIR Latch 1**	When set (and in Walk Test)	At alarm, or when unset
0040	**PIR Latch 2**	This is the inverse polarity to PIR Latch 1	
0041	**Mains Good**	Output showing the mains is healthy	
0042	**Detr Indn Enable**	This output activates during walk test and also when a code is entered to view indications – staying activated for the time for which the indications are viewed.	
0043	**Follow Test**	New output for alternative bell test by activating SAB	
0044	**Off During Test**	New output for alternative bell test by activating SAB	
0048	**Detr Walk Test**	This output is active during walk test, and will only deactivate when all detectors have been tested.	
0049	**Detector Masked**	If any detector goes into 'mask' condition the output will trigger	When masking fault clears.
0050	**Follow 24 Hour**	If any input programmed as "Day alarm" activates	When input restored
0051	**Line Fault**	When Line Fault signalled by communicator	When fault clears
0052	**Mains Fail**	After pre-set time without mains power	On restoration of mains
0053	**Battery Faults**	When battery disconnected or load fail detected	At next valid code entry
0054	**Low Volts**	At fault	When fault clears
0055	**Global Fault 1** (Faults: Modem, Battery, Fuse, Line, Mains)	Activates if fault occurs only when system is armed	When all faults cleared
0056	**Global Fault 2** (Faults: as above)	Activates if fault occurs at any time	When all faults cleared
0058	**Guard Code Used**	When 'guard' code accepted	After 60 seconds
0059	**Engineer Access**	When entering Engineer Mode	Leaving Engineer Mode
0060	**Initialise Digi**	At power up	Live for 45 seconds only
0063	**Test ATE**	Test signalling through PSTN	When test completed
0064	**Test ATS** *For use with ATE complying with BSIA Form 175 to initiate test call to ARC by each available path.*	Test signalling through PSTN Activates when a test call is sent.	When test completed
0065	**Zone Activity Fail**	If an input with NAT timer active does not trigger in the defined period	Next valid code entry
0066	**ATE not used**	Makes the ATE pin 5V or 0V depending if ATE outputs are inverted	
0070-0079	**Fob Output 01-10**	Can be used to triggers outputs via the keyfob. For example if an output is programmed as type 0071 (Fob Output 02) and is wired to a garage door. And if a user has a keyfob programmed with button 2 as Latched or Keyswitch Output (with Output 2 selected), then when the button is pressed the garage door will open.	

Type		Active	Restore
0070-0079 Fob Output 01-10			
A repeating block of output types should be noted:			
0202	**Hold Up A**	As 0002 for Area A / Level set A events only	
0203	**Intruder A**	As 0003 for Area A / Level set A events only	
0204	**Final Set A**	As 0004 for Area A / Level set A events only	
0206	**Confirmed A**	As 0006 for Area A / Level set A events only	
0207	**Tamper A**	As 0007 for Area A / Level set A events only	
0208	**Duress A**	As 0008 for Area A / Level set A events only	
0209	**HU Device A**	As 0009 for Area A / Level set A events only	
0210	**Fire Reset A**	As 0010 for Area A / Level set A events only	
0213	**Secure Intruder A**	As 0013 for Area A / Level set A events only	
0214	**Siren A**	As 0014 for Area A / Level set A events only	
0216	**Strobe A**	As 0016 for Area A / Level set A events only	
0217	**Omit At Rearm A**	As 0017 for Area A / Level set A events only	
0218	**Unconfirmed A**	As 0018 for Area A / Level set A events only	
0219	**Can Set A**	As 0019 for Area A / Level set A events only	
0220	**Exit Starts A**	As 0020 for Area A / Level set A events only	
Then this pattern repeats for each other area, so that:			
0221-0240 Area / Level set B		**0361-0380** Area / Level set 4	
0241-0260 Area / Level set C		**0381-0400** Area / Level set 5	
0261-0280 Area / Level set D		**0401-0420** Area / Level set 6	
0281-0300 Area / Level set 0		**0421-0440** Area / Level set 7	
0301-0320 Area / Level set 1		**0441-0460** Area / Level set 8	
0321-0340 Area / Level set 2		**0461-0480** Area / Level set 9	
0341-0360 Area / Level set 3			
1xxx	**Follow input xxx**	When input is activated	When input clears
i.e. add 1000 to the input number to select output required			
Area Sounder		**At output 2 of the TMZ (fixed as loudspeaker)**	

Appendix E. Content Types

No.	Description
1	Final Set, System Rearm, ATM set, Secure set system
2	System set by auto set, Auto set cancelled by user, Forced Set, System unset by auto unset ATM disarmed
3	Access Exit Request, Special Unset
4	Set Fail, Set Fail (with zone)
5	Burglary Alarm, Entry/Exit alarm, Day alarm, Perimeter, Perimeter Alarm, Gas Alarm, No Zone Activity - sent, Tamper Alarm, Tamper On Zone, Flood Alarm, Keybox Alarm
6	Burglary Alarm Once, Entry/Exit alarm once, Day alarm once, Interior Alarm Once, Perimeter Alarm Once, Fire Alarm Once, Gas Alarm Once, Holdup Alarm Once, Medical Alarm Once, PA Alarm Once, Tamper Alarm Once, Flood Alarm Once, Keybox Alarm Once
7	Alarm Silenced
8	Confirmed Output, Confirmed Intruder, Confirmed Hold Up
9	Input Line OK, Telecom line OK, Input Line fail, STU Telecom Line OK
10	Low Volts, Detector fault, Detector Fault, Detector Masked, Device Restored, Device Fail, Fuse 1, Fuse 2, Fuse 3, Fuse 4, Fuse 5, RS485 fault (not used), Telecom line fault, ID Line Short Fault on a device at rearm, Radio supervision failure, Radio hub jamming, Radio low battery, Battery Connect, Battery Disconnect, Battery Load Fail, Battery Critical, DIGI Fail Comms, STU comms failure on STU input indication, Network Fault (IP panels), Excess Charge Modem Failed, Warning Device Fault, Warning Device Fault Restore
11	Clock Set To, PC - Clock set to, Changed Code, Code Added, Deleted Code, Engineer Reset Site Changed, Clock Set From, System Restart, Logs Cleared, Clean Started, CHC Call Failed Logs nearly full, Engineer reset needed, Twin Device, Excess Current
12	Unset System
13	Engineer Access, Engineer Exit
14	Door Forced, Door Left Open
15	Tag at Reader
16	Invalid Tag
17	Zone Special Log Switcher Opened
18	Zone Special Log Switcher Closed
19	Zone Special Log Opened
20	Zone Special Log Closed
21	Ward Unset, Ward Silenced, Ward Zone Unset, Ward Zone Silenced, Shunt Closed
22	Ward Set, Ward Zone Set, Shunt Opened
23	Ward Alarm
24	Zone Walk Tested
25	Burglary Restore, Entry/Exit Restore, Day alarm restore, Interior Alarm Restore, Perimeter Restore, Detector Masked Restore, Detector Fault Restore, Fire key Restore, Gas Restore Fuse fail restore, 2 key PA restore, Tamper Restore, Tamper On Zone Restore, iD line short restore, Case tamper restore, Radio Supervision restore, Flood Alarm Restore, Radio Jamming restore, Radio hub jam restore, Radio low battery restore, System (SAB) tamper restore Keybox Restore
26	Test Call
27	Restore of mains fail alarm, Mains Fail Alarm
28	Fire Alarm, Fire key pressed, Fire Restore, Duress Code, Holdup Alarm, Hold Up Restore Code Guessing, Radio fob PA, PA Alarm, Two key PA, Radio Fob PA restore, PA Restore
29	Medical Alarm, Medical Alarm Restore
30	Zone Omitted at Rearm, Day Alarm Zone Omitted, Zone Omitted, Day Alarm Zone Omitted Restore, Zone Omitted Restore, Fire Zone Omitted, Fire Zone Omitted Restore, Zone Force Armed
31	Stopped Set, Abort

Appendix F. Fault Codes

If a device on the EURO control panel is not installed correctly or has lost its communication with the panel, "DEVICE FAIL" will be shown on the keypad as shown:

Control Panel = Main panel fault (e.g. battery)
485 Fail Kpd = Keypad
485 Fail Trd = Tag Reader / Door Station / TMZ
485 Fail Zem = Zone Expander Module (ZEM)
485 Fail Opm = Output Module

For the keypad and tag readers, the top line will show the set point name, for the ZEMs and output modules a 'Location' description (if inputted) will be shown on the top line of the display instead of the address number. (Address number will be displayed in 2 digits, e.g.: 00,01,02 etc).

Wireless Fault Displays (if a wireless ZEM is installed)

Fault	Description	Solution
Wireless mismatch	There is an input learnt without having a type assigned to it	Assign an input type in 'Change Inputs'.
User name Wireless Low Bat	Low battery on radio keyfob for the user with the name shown on the top line.	Replace the battery on the mentioned keyfob.
Input name Wireless Low Bat	Low battery on radio input, entered name of input shown on top line.	Replace the battery on the mentioned input device.
Siren n Wireless Low Bat	Low battery on radio bell number 'n'	Replace the battery on the mentioned radio bell.
Input name Wireless Supervision fault	Radio input whose name is shown on the top line hasn't 'checked in'	Walk test the detector, perform a diagnostic – signal strength test and try replacing the battery.
Siren n Wireless Supervision fault	Radio bell number 'n' hasn't 'checked in'	Test the siren, perform a diagnostic – signal strength test and try replacing the battery.
Input name Tamper Alarm	Tamper fault on radio input whose name is shown on the top line	Check the tamper switch on mentioned radio input; check that the case is closed properly.
Siren n Tamper Alarm	Tamper fault on radio bell number 'n'	Check the tamper switch on the mentioned radio bell.
Location Wireless Jam WZm	Jamming fault on the wireless ZEM whose location is shown on the top line	Check no radio interference is in close proximity to the radio devices/panel.
"Input name" Or "Siren n" Wirless Poll Fail	No 'polls' are received for 20 minutes before the set operation	Test the signal strength / battery on the device shown.

Fault Indications

RS-485 BUS PROBLEMS		
Fault	**Description**	**Solution**
485 Fail xxx	Device on RS-485 communications bus is failing to communicate correctly with the control panel.	Identify device from the location/name and the device type. Check device addressed correctly to match programming. Ensure that 2 devices of the same type do not share the same address. Check connections at device, and cabling to it. If above correct, re-boot device, followed by re-boot of End Station.
485/Comms Lost	Displayed on keypad that has not yet established communications with End Station	Part of routine initialisation procedure. If persists, check display at other keypad(s) to confirm if device failure at that keypad or complete system RS-485 failure (temporarily attach additional keypad direct to End Station if necessary).
Keypad display is BLANK	Keypad address does not match any keypad enabled	Check keypad address, noting that a keypad at address 00 must be present to program system. Also check "Assigning Keypads" menu in Engineer mode set up correctly.
Keypad display normal, but KEYS LOCKED OUT	More than one device connected at the same address	Correct addressing so that no overlaps. Then power system down and up again to correctly reinitialise.
Authorisation Required	The master manager will need to give the Engineer access	The option 'Allow Engineer menu' will need to be enabled by the master manager
POWER SUPPLY PROBLEMS		
Fault	**Description**	**Solution**
Battery Fault xxx	Battery Fuse failed, OR Battery not present, OR Battery volts low	***Note:* This indication should be expected during recharge after a mains failure.** The top line displays 'Control Panel' if it is a fault on the endstation, if the Battery fault is on a ZEM/OPM 'xxx' will show the device type and the top line the location text if entered, if not it shows xxx-nn where nn is the address of the ZEM/OPM.
Bat Test Fail XXX	Battery Load Test has failed	Only displays if option selected. Battery uncharged or capacity below specification may need replacing. Same method as showing the device as battery fault.
Bat Critical XXX	Battery being powered down	Protects battery from deep discharge damage during extended mains failure. Same method as showing the device as battery fault. ***Note:* System is now powered down**
Mains Fail xxx	Mains supply failed	System detects mains frequency out of specification, as well as voltage. Same method as showing the device as battery fault. **Note: 'AC FAIL' timer operative**
Low Volts xxx	Power supply volts low	Battery volts below normal 'battery fault' level during mains failure. Same method as showing the device as battery fault

DETECTION FAULTS		
Fault	**Description**	**Solution**
Case Tamper XXX	Case tamper switch open	Secure switch closed. Same method of showing the device as battery fault.
COMMUNICATION FAULTS		
Fault	**Description**	**Solution**
Control Panel Modem Fault	End Station unable to communicate with Digi Modem	If modem not present, ensure that "Disable Digi" option is set to 'YES' and "DOWNLOAD MODE" is set to 'NONE' or 'RS232'. If present, but not detected, check the modem is inserted correctly.
Control Panel ARC Call Fail	***Call to ARC from Digi Modem Digi Modem has failed. <u>Note:</u>*** *This is a communication problem, which is rarely caused by an equipment fault.*	Check ALL call details are programmed correctly. Ensure signalling format is correctly set for ARC receiver. Ensure that calls to the ARC or SMS bureaux numbers are allowed on the PSTN line, eg 0800, 0845 etc.
CHC TEST FAIL	Unable to communicate with Castle Host Computer. ***<u>Note:</u>*** This would also result if the telephone line had premium rate calls blocked.	Ensure the Digi is enabled, and at least one SMS call is correctly programmed. Check that ordinary phone on same line connects to CHC, and modem tones heard – if not, problem is PSTN – NOT equipment.
Control Panel Line Fault 100	PSTN Line Fault signalled by Digi Modem.	Only operative if "DOWNLOAD BY MODEM" selected OR "DISABLE DIGI/SMS" is set to 'NO' ***<u>Note:</u> 'Line Fault' timer operative.***

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