THANK YOU FOR VOTING TEXECOM

INSTALLATION MANUAL

Premier 412

Premier 816

Premier 832

Security Control Panels with Integrated Communicator

INS159-9

CE

Texecom

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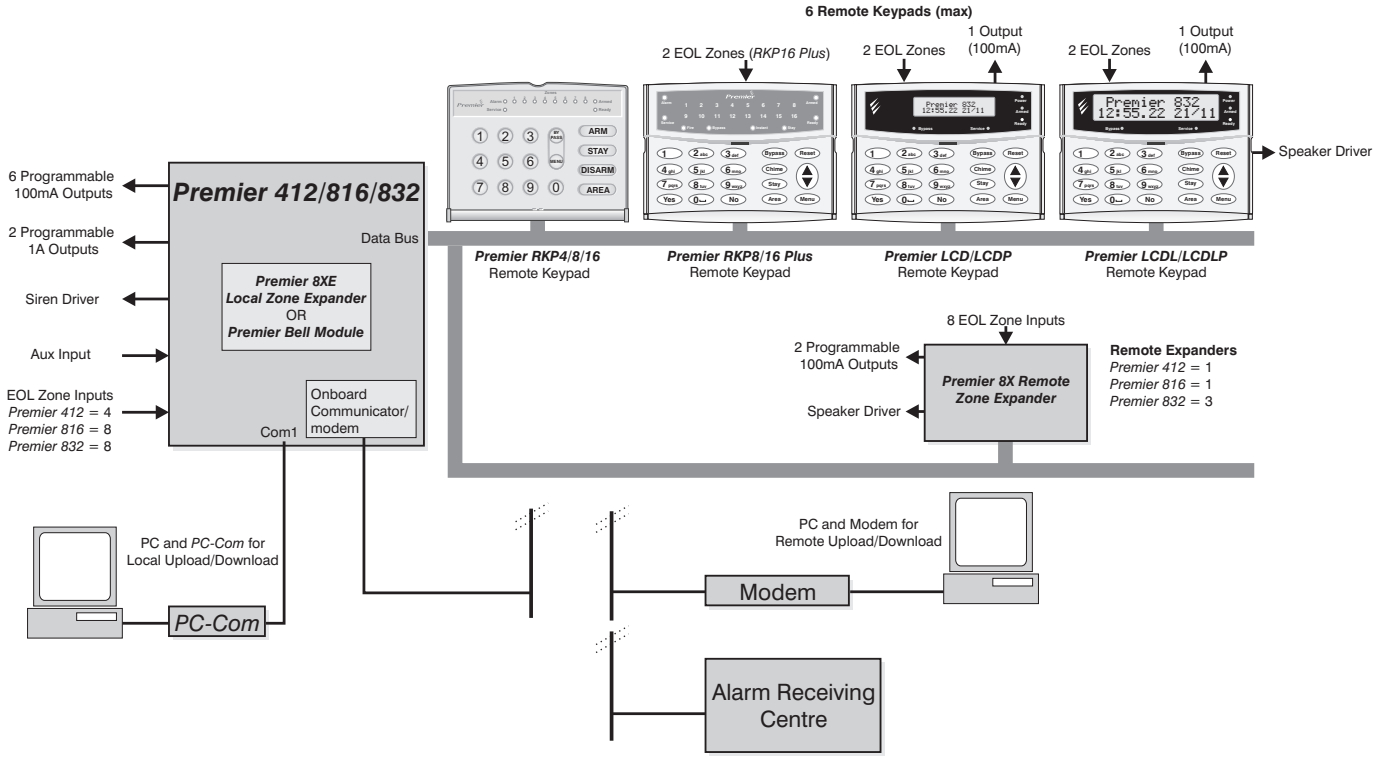
1. System Overview

System Architecture



Control Panels

The *Premier 412, 816* and *Premier 832* are highly sophisticated security control panels with Integrated Multi-protocol Digital Communicator/Modem. The control panels have the following features:

Features	*412*	*816*	*832*
Zones	4	8	8
Max. Zones when expanded	12	16	32
Partitions	2	4	4
User Codes	32	32	64
Event Log	750	750	1000
Touch Tone Remote Control	-	-	✔
Programmable Aux. Input	✔	✔	✔
Supervised Siren/Bell Output	✔	✔	✔
2 x 1A Supervised Outputs	✔	✔	✔
6 x 100mA Outputs	✔	✔	✔
Printer/UDL Port	✔	✔	✔
Integrated Modem/Communicator	✔	✔	✔

Remote Keypads

The control panels will accept up to a maximum of 6 remote keypads. All remote keypads require a 4-wire connection to the data network and have a built in piezoelectric sounder. The following remote keypad models are available:

Premier RKP4/8/16

A cost effective range of remote keypads with either 4, 8 or 16 zone indicator lights.

- 4-wire connection to data network.
- Built in piezoelectric sounder.
- Dual level back-lighting, normally dim, switching to bright for 8 seconds after any key press
- Dedicated status lights for “Alarm”, “Service”, “Armed” and “Ready”.

Premier RKP8/16 Plus

A professional range of LED remote keypads with either 8 or 16 zone indicator lights.

- 2 programmable EOL zones.
- 4-wire connection to data network.
- Built in piezoelectric sounder.

- Fully adjustable back-lighting, normally bright, dim or off, changing to bright whenever a keypad is used and during the entry mode
- Dedicated status lights for “Alarm”, “Service”, “Armed”, “Ready”, “Fire”, “Bypass”, “Instant” and “Stay”

Premier LCD/*L*

The *Premier LCD* remote keypad has a standard 32 character back-lit LCD display, whereas the *Premier LCDL* has a large 32 character back-lit LCD display.

- 2 programmable EOL zones
- 1 programmable low current (100mA) output
- 4-wire connection to data network.
- Built in piezoelectric sounder.
- Fully adjustable back-lighting, normally bright, dim or off, changing to bright whenever a keypad is used and during the entry mode
- Dedicated status lights for “Power”, “Armed”, “Ready”, “Service” and “Bypass”
- Speaker driver output (*Premier LCDL* Only).

Premier LCDLP

- *Premier LCDL* keypad with built-in proximity tag reader

Premier LCDP

- *Premier LCD* keypad with built-in proximity tag reader

Zone Expansion Modules

Either system can be expanded using one of the following zone expansion modules:

Premier 8X Remote Zone Expander

This module comes supplied in its own enclosure and is connected to the control panel data network to provide remote expansion of the system. This module provides the following additional facilities:

- 8 programmable EOL zones
- 2 programmable low current (100mA) outputs
- Speaker driver output with electronic volume control.

Premier 8XE Local Zone Expander

This module comes supplied as a PCB and simply plugs onto the main control panel circuit board. This module provides 8 programmable EOL zones.

PC-Com Module

This module plugs on to the *Premier 412*, *816* and *Premier 832* control panel to provide an RS232 interface, which can be used for:

- Connection of a serial printer to print the event log
- Upload/download the system programming via *Wintex UDL* software and PC.

ComIP Module

This module plugs on to Com1 of the control panel to provide the following:

- Alarm event reporting via TCP/IP (WAN/LAN).
- High speed upload/download of system programming via WAN/LAN using *Wintex UDL* software.

Speech Module

This module plugs on to the control panel to provide the following:

- 2 recordable messages (12 seconds each).
- Each message can be assigned to a specific output function, e.g. Alarm or Fire.

This manual does not cover the full installation of this device; please refer to the instructions supplied with the *Speech Module*.

Radio Receiver Module

The control panel will accept either the Texecom *RadioPlus* receiver module and radio devices or the Inovonics EE4000 radio receiver and ES1200 series devices. The receiver module plugs on to Com1 of the control panel to provide the following:

- 32 wireless devices, such as PIR, Door Contacts, Remote FOBs etc.
- RF supervision of each device.
- Battery supervision of each device.

This manual does not cover the full installation of these devices; please refer to the instructions supplied with the radio receiver module.

2. Installation

Installation Sequence

Before attempting to install the alarm system, read this section. Once you have an overall understanding of the installation sequence, carefully work through each step.

1: Design the Layout
Make a rough sketch of the premises to get an idea of where all alarm detection devices, keypads and other modules are to be located.

2: Mounting the Panel
The control panel should be mounted in a dry area close to an unswitched AC power source and the incoming telephone line.

NOTE You must complete all wiring before connecting the battery, or applying AC to the panel.

NOTE Some versions of the control panel are not supplied with an integral mains transformer. If this is the case a suitable external mains transformer will be required (see page 77)

3: Install the Keypads
Mount and connect the keypads to the control panel.

4: Zone Wiring
Install detection devices and connect to control panel.

5: Other Wiring
Complete all other wiring including bells or sirens and telephone line connections.

6: Apply Power to the Control Panel
Once steps 1 to 5 are completed, apply power to the control panel. First, connect the red battery lead to the positive terminal and the black lead to negative. Then, connect the AC.

7: Complete the Installation Records & Defaults Booklet
Supplied with the control panel is the "Installation Records and Defaults" booklet. This booklet allows you to record all programming data and also lists all program defaults. It is recommended that the booklet is filled in before attempting to program the system.

8: Program the System
Using the Programming Worksheets program the control panel in accordance with the procedures in Section 3.

9: Testing the System
Test the system thoroughly to ensure that all features and functions are operating as required.

Control Panel

Mounting

Mount the control panel on a flat, plumb wall using at least three appropriate screws. The rear casing has been designed with a central key-hole slot so that mounting is possible without removing the Printed Circuit Board (PCB).

The angled slot in the lower corner has been provided to allow the panel to be levelled easily. If the PCB has to be removed, carefully pull back the two front PCB securing clips, lift the front of the PCB and slide it downward. To replace the PCB simply reverse the above procedure.

NOTE It is essential to ensure that none of the fixing slots or cable entries are accessible after fixing.

Mains cabling must be secured (e.g. with a cable tie) to one of the anchor points provided.

Wiring the Control Panel

WARNING: ELECTRICITY CAN KILL

BEFORE connecting the control panel
ALWAYS disconnect the supply at the consumer unit.
If in ANY doubt consult a qualified electrician.

ONLY connect the mains supply to the mains terminal block, NEVER connect the mains supply directly to the PCB.

The system installation MUST be carried out in accordance with the national safety standards, for example EN 60950: 1992.

ALWAYS refer to National Wiring Regulations when conducting installation.

An appropriate and readily accessible disconnection device (e.g. an unswitched fused spur) MUST be provided as part of the installation.

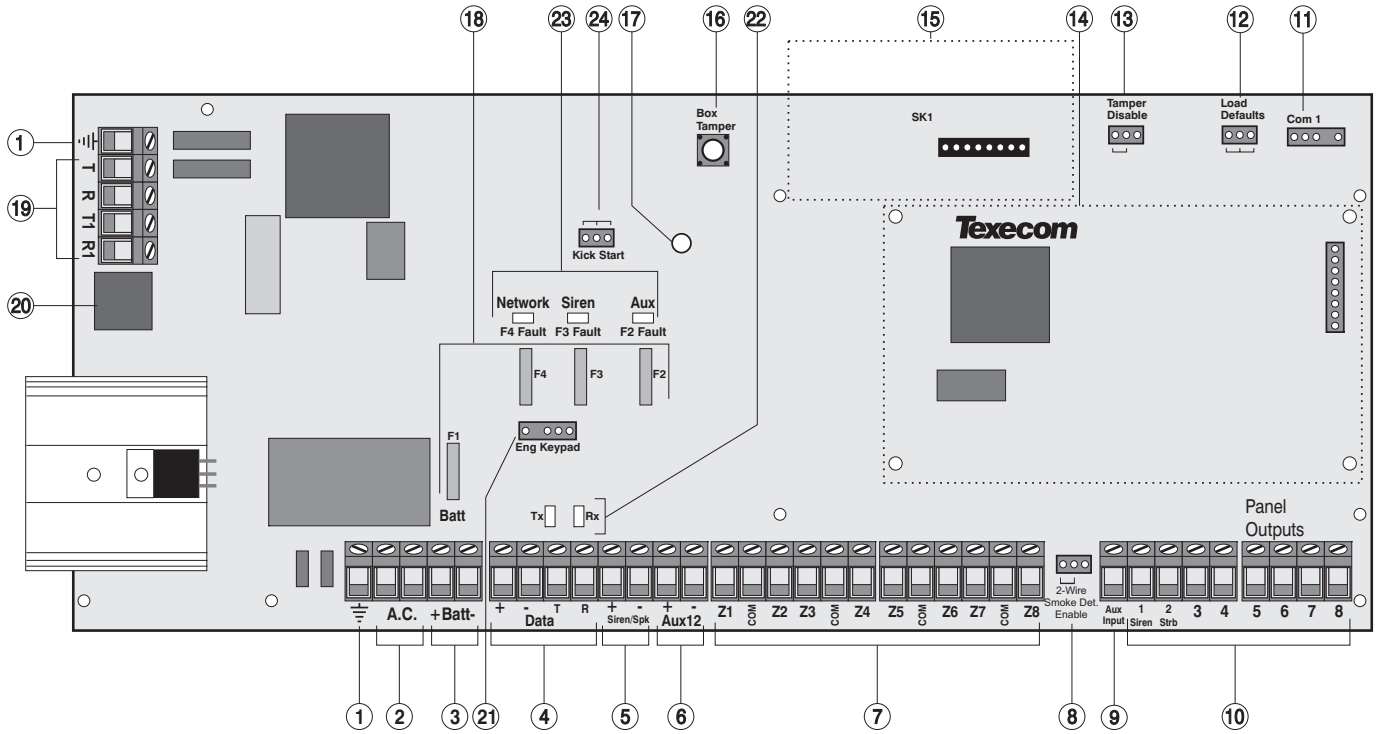
The disconnection device must NOT be fitted in a flexible cord.

Where identification of the neutral in the mains supply is NOT possible, a two-pole disconnection device MUST be used.

The building mains supply MUST incorporate appropriate short-circuit backup protection (e.g. a fuse or circuit breaker) of High Breaking Capacity (HBC, at least 1500A).

Use mains cable of adequate carrying capacity for the rated current (i.e. at least 0.75mm^2).

Control Panel PCB Layout



1: Earth Ground Connection
Earth ground. Connect to earth or an earth rod.

Failure to fit an earth cable may prevent proper operation of the system and will invalidate the Texecom warranty and product approvals.

2: AC Input
Connect to a 16.5V transformer.

Do NOT connect the mains supply to the AC input terminals.

3: Battery Connections
A 12V rechargeable battery must be connected to these two terminals in order to provide continuous system operation in the event of mains failure. The battery output is protected by fuse F1 (1.6 Amp).

4: Data Bus Connections
The data bus terminals provide connections to the remote keypads and *Premier 8X Remote Zone Expander*. The + and – terminals provide power whilst the T and R terminals are transmit and receive data.

5: Siren/Spk output
These terminals are used for driving speakers, sirens or bells. The output can be programmed for speaker driver or for Siren/bell driver (see page 35). This output is supervised, if no warning devices are fitted, either fit a 1KΩ resistor between these two terminals or disable the siren supervision, see page 36.

6: Auxiliary 12V Power
These terminals provide auxiliary power for devices that require 12V power. The auxiliary output is protected by fuse F2 (1 Amp).

7: Zone Inputs 1 to 8
These terminals provide the connections to the zone inputs. The *Premier 816* and *Premier 832* have 8 zone inputs, whereas the *Premier 412* has only 4 zone inputs. There are several ways to wire a zone (see page 12). Each zone is fully programmable, see page 24 for information on programming zones.

8: Two-Wire Smoke Detector Enable
Set this link as shown when connecting 2-wire smoke detectors to Panel Output 1.


Output 1 is enabled for 2-wire smoke detectors

Output 1 is normal

9: Aux Input
This is a programmable input, it can be used for monitoring auxiliary tamper devices etc, see page 36 for programming details.

10: Panel Outputs 1 to 8
These are programmable outputs. Panel outputs 1 and 2 are high current (1 Amp) supervised outputs. If panel outputs 1 or 2 are not used, either fit a 1KΩ resistor between the unused output and Auxiliary 12V + or disable the output supervision, see page 36. Panel outputs 3 to 8 are low current (100mA) outputs.

11: Communication Port
The serial communication port is used for connecting to a printer or PC for local downloading.

12: Load Defaults
Short between the centre and either of the outer pins during power up to restore the control panel default program parameters. These pins can also be used to reset the Engineer code back to its default value, see page 67.

NOTE Do not leave these pins shorted, otherwise the control panel event log will be erased.

13: Box Tamper Disable
Fit link as shown:


Box Tamper Disabled


Box Tamper Enabled

14: Local Zone Expander
The *Premier 8XE Local Zone Expander* can be plugged on to the main PCB. The local expander provides an additional 8 programmable zones (see page 12).

15: *Speech Module*
A two channel *Speech Module* can be plugged on to the main PCB (SK1). This connector is only fitted on the *Premier 816Plus* and *Premier 832* control panels.

16: Box Tamper Switch
Box tamper protection for the main control panel.

17: Power Light
On steady when either AC or standby battery is present. Flashes when the on-board communicator is dialling or sending data.

18: Electronic Fuses
The PCB is protected using electronic PTC fuses:

- F1 (1.6 Amp) Battery fuse
- F2 (1 Amp) Auxiliary 12V power fuse
- F3 (1 Amp) Siren/Bell output fuse
- F4 (1 Amp) Network fuse

19: Telephone Line Connections
Telephone line connections (see page 17).

20: RJ11 Telephone Line Connector
An RJ11 connector is provided so that the panel can be connected to the telephone line via a standard RJ11 patch lead.

21: Engineers Keypad Connection
An engineers keypad (*Premier LCD* keypad and interface lead) can be temporarily plugged onto this connector to allow system programming and testing.

22: Network Data Indicator LEDs
The red transmit (Tx) LED indicates that data is flowing out of the control panel and normally flashes very quickly. The green receive (Rx) LED indicates that data is flowing into the control panel. The green LED flashes faster as more devices are connected to the data network.

23: Electronic Fuse Fault Indicator LEDs
Electronic fuses F2-F4 have red indicator LEDs, which light up when the relevant fuse is open circuit (fault).

24: Battery Kick Start Pins
The control panel has a deep discharge protection circuit that prevents the standby battery from being fully discharged. When powering up the control panel without AC Mains (battery only), the centre and either outer pins must be shorted together in order to bring the battery into circuit.

Connecting Devices to the Data Bus

Before connecting remote keypads and zone expanders, isolate ALL power from the control panel (AC Mains & Battery). Do not continue if there is still power present on the control panel.

NOTE Connecting devices with power still present on the control panel may damage the device or control panel and invalidate any warranty.

Remote keypads and zone expanders are all connected to the same data terminals located at the bottom left hand corner of the control panel and may be connected serially (daisy chain), in parallel (star) or any combination of the two.

Wiring the Data Bus

The data bus is made up of four terminals incorporating power and data. To ensure correct operation, all four terminals on the device must be connected to the corresponding terminals on the control panel, or previous device (see page 9 for wiring details). The table below shows each terminal and its description:

Terminal	Description
+	+12V Supply
-	0V Supply
T	Transmit Data
R	Receive Data

Cable Distances

The maximum recommended distance for devices when using standard 7/0.2 alarm cable is:

- 250m for each branch when using the star (parallel) configuration
- When using a daisy chain (series) configuration the maximum distance will depend on the number of devices connected on the chain. The more devices that are connected, the shorter the distance to the last device (this is due to voltage drop in the cable)

Whichever method of wiring configuration is used, ensure that the voltage between the '+' and '–' terminals at each device is no lower than 10.0V when the system is running on the standby battery.

The table below shows maximum cable runs when one keypad or expander is installed using standard 7/0.2 alarm cable with various loads:

Configuration	Max. Cable Run
1. Keypad + 2 PIR's @15mA	250m
2. Expander + 2 PIR's @15mA	250m
3. Expander + 8 PIR's @15mA	100m
4. As No. 3 + 16Ω Speaker	30m

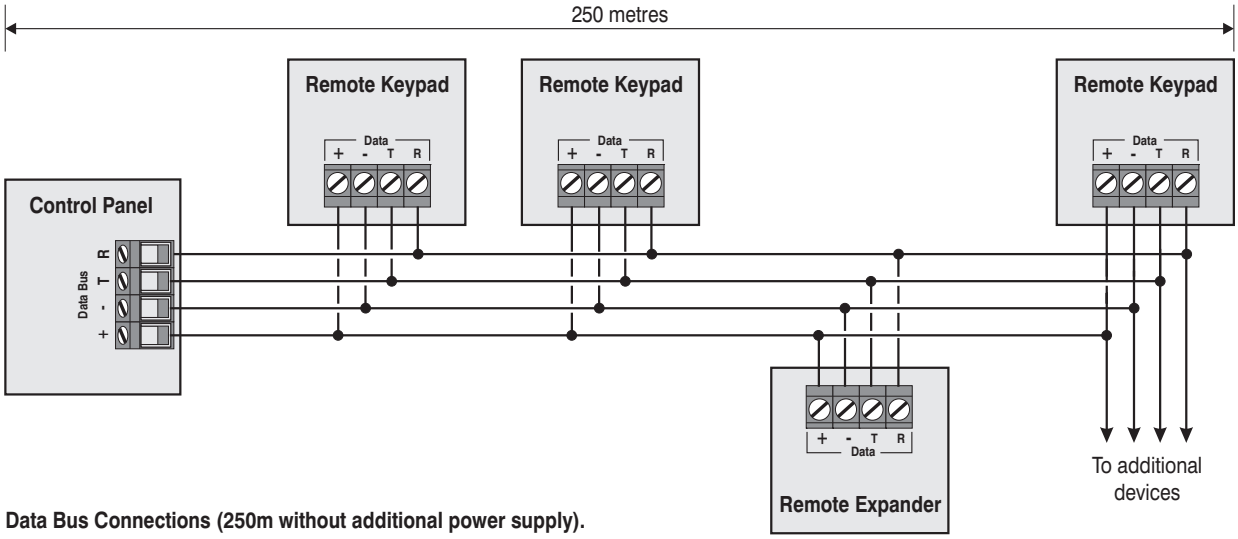
Overcoming Voltage Drop

There are several ways to overcome voltage drop:

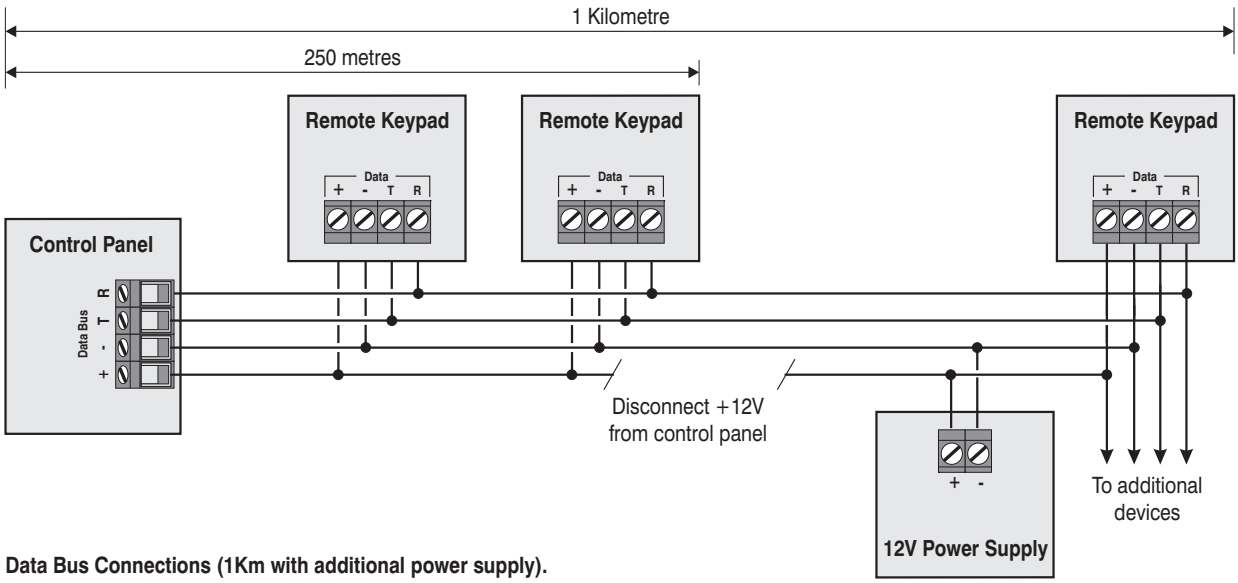
- Use thicker lower resistance cable. Standard 7/0.2 alarm cable has a resistance of 8Ω per 100m
- Double up on the power connections – this will require using a 6 or 8-core cable rather than a 4-core cable
- Install a power supply to power the device locally, remember to common the two negative connections

Installing a Power Supply

When a power supply is installed, the 0V connections on the power supply must be connected through to 0V on the control panel and the +12V connection between the control panel and the device must be disconnected (see figure below).



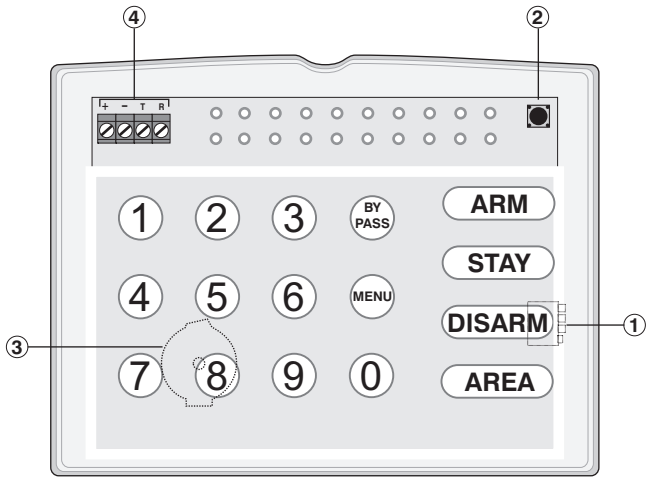
Data Bus Connections (250m without additional power supply).



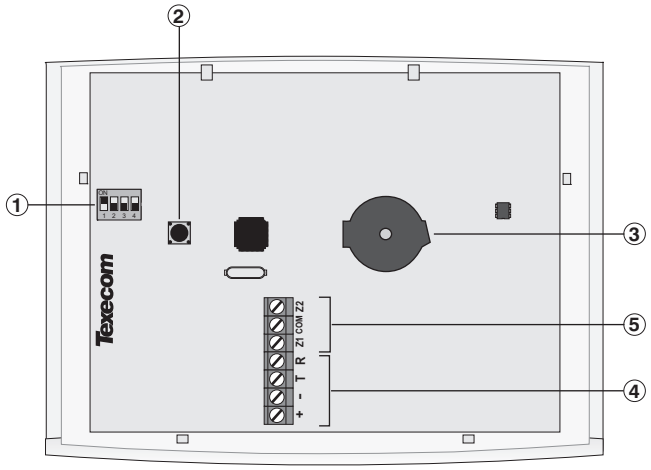
Data Bus Connections (1Km with additional power supply).

Installing Remote Keypads

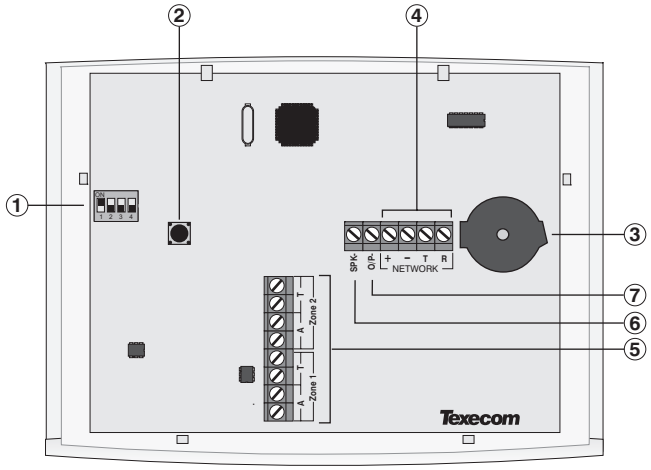
Keypad Layouts



***Premier RKP4/8/16* Layout**



***Premier RKP8/16 Plus* Layout**



***Premier LCD/LCDL/LCDP/LCDLP* Layout**

① **Address DIL Switch**
② **Tamper Switch**
③ **Piezo Sounder**
④ **Data Bus Connections**
⑤ **Programmable Zones 1 and 2**
⑥ **Speaker Output (*Premier LCDL/LCDLP* Only)**
⑦ **Programmable Output**

Remote Keypad Connections

The remote keypad is connected to the data bus terminals located at the bottom left hand side of the PCB. (See pages 7 to 9).

Remote Keypad Address

Each remote keypad must be assigned a different address using the Address DIL switch (①). The table below shows how to set the address:

Address	DIL 1	DIL 2	DIL 3	DIL 4	
1	**On**/Off	Off	Off	Off	
2	Off	**On**	Off	Off	
3	Off	Off	**On**	Off	
4	Off	Off	Off	**On**	
5	**On**	Off	Off	**On**	
6	Off	**On**	Off	**On**	

Keypad Zones

The *Premier RKP8/16 Plus* and all LCD remote keypads have two programmable zone inputs (see page 13 for wiring details). Each zone is also fully programmable (see page 24 for programming details). The table below shows the zone allocation when using the *Premier RKP8/16 Plus* or *Premier* LCD remote keypads:

Address	*Premier 412*		*Premier 816/832*	
	Zone 1	Zone 2	Zone 1	Zone 2
1	Zone 05	Zone 06	Zone 09	Zone 10
2	Zone 07	Zone 08	Zone 11	Zone 12
3	Zone 09	Zone 10	Zone 13	Zone 14
4	Zone 11	Zone 12	Zone 15	Zone 16
5	N/A	N/A	N/A	N/A
6	N/A	N/A	N/A	N/A

NOTE The onboard remote keypad zones are not seen by the system until they have been enabled. To enable the onboard keypad zones (see page 41 for details).

Keypad Output

All *Premier* LCD remote keypads have one programmable output, which can be used to drive auxiliary devices such as LED's, sounders or relays etc. Wire as per Panel Outputs shown on page 18 (see page 46 for programming details).

Keypad Speaker Output (*LCDL*/*LCDLP* Only)

The *Premier LCDL* and *LCDLP* keypads has an output that can be used for driving up to one 8Ω or two 16Ω loudspeakers (see page 17 for wiring details).

NOTE The speaker volume is also fully adjustable (see page 34 for details).

Adjustable Backlighting

To adjust the keypad backlighting press the **YES** key, then with the **YES** key still pressed use ⇕ to increase or decrease the backlighting until the required brightness is achieved, then release both keys.

NOTE The backlight can only be adjusted when the keypad is not in a menu.

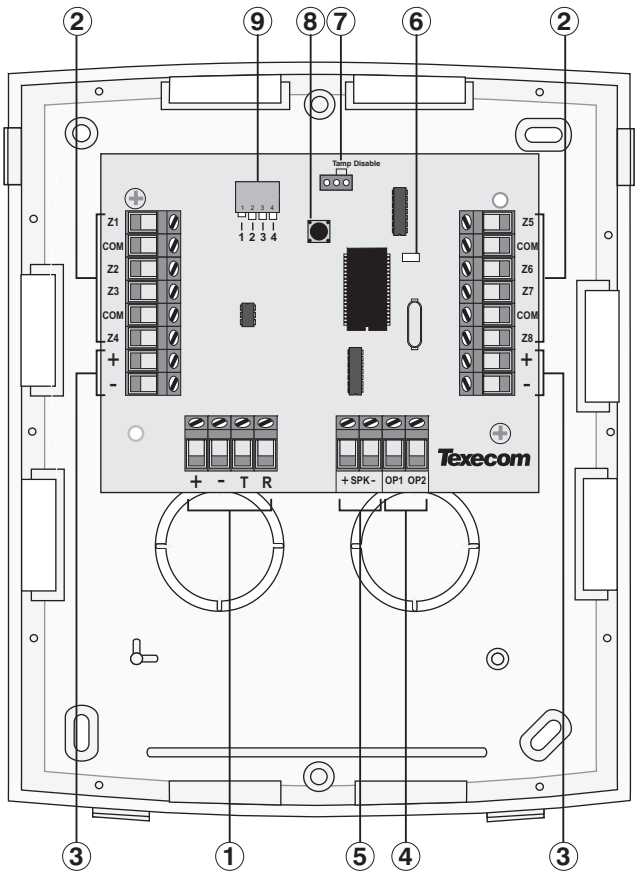
Keypad Lid Tamper

The lid tamper of each keypad can be disabled if required using the relevant keypad option in the Keypad Options 4 menu (see page 41 for details).

Remote Zone Expander Module

The *Premier 8X Remote Zone Expander* provides 8 additional detection zones, two programmable outputs and a speaker driver output.

Remote Expander Layout



① **Data Bus Connections**
② **Auxiliary 12V**
③ **Programmable Zone Inputs**
④ **Programmable Outputs 1 and 2**
⑤ **Speaker Driver Output**
⑥ **Power LED**
⑦ **Disable Tamper Jumper**
⑧ **Tamper Switch**
⑨ **Address DIL Switch**

Wiring the Zone Expander

The Remote Zone Expansion Module is connected to the data bus terminals located at the bottom left hand side of the PCB. (See pages 7 to 9).

Remote Expander Address

Each remote expander must be assigned a different address using the Address DIL switch (⑨). The table below shows how to set the address:

Address	DIL 1	DIL 2	DIL 3	DIL 4	
1	**On**/Off	Off	Off	Off	
2	Off	**On**	Off	Off	
3	Off	Off	**On**	Off	

NOTE Only one remote expander can be connected to the *Premier 412* & *816* control panels (Address = 1).

Remote Expander Zones

The *Premier 8X Remote Expander* has eight programmable zone inputs (see page 13 for wiring details). Each zone is also fully programmable (see page 24 for programming details).

The table below shows the system zone allocation when one or more modules are installed:

Address	Remote Expander Zone Inputs							
	Z1	Z2	Z3	Z4	Z5	Z6	Z7	Z8
1	09	10	11	12	13	14	15	16
2	17	18	19	20	21	22	23	24
3	25	26	27	28	29	30	31	32

NOTE When the system is expanded above 8 zones, it MUST be fitted with a suitable remote keypad. For systems up to 16 zones a *Premier RKP16* or *Premier RKP16 Plus* should be installed. For systems above 16 zones a LCD remote keypad should be installed.

The system will only support one type of expansion device for zones 09 - 16, i.e., you can fit either a *Premier 8X Remote Expander* (Address = 1) or a *Premier 8XE Local Expander*, you cannot fit both.

Zone Expander Outputs

The Zone Expander module has two programmable outputs, which can be used to drive auxiliary devices such as relays, LED's, smoke detectors etc. The table below shows the electrical characteristics for each output:

No	Supervised	Max Current	Type
1	No	100mA	Switched –ve
2	No	100mA	Switched –ve

Wire as per Panel Outputs shown on page 18.

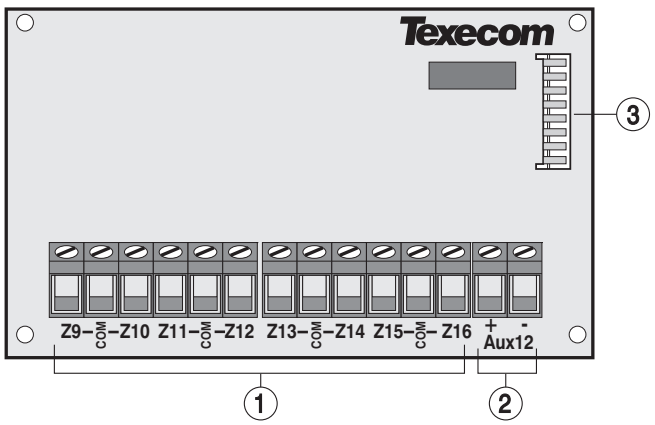
Zone Expander Speaker Driver

The Zone Expander has a Speaker driver output and can be used for driving 8 or 16 Ohm loud speakers as shown on page 17.

Local Zone Expander Module

The *Premier 8XE Local Zone Expander* plugs onto the control panel to provide 8 additional programmable detection zones.

Local Expander Layout



① Zone Inputs 9 to 16
These terminals provide the connections to the zone inputs.

② Auxiliary 12V Power
These terminals provide auxiliary power for devices that require 12V power. The auxiliary output is protected by fuse F2 (1 Amp) on the control panel.

③ Plug-On Connector
The *Premier 8XE Local Zone Expander* plugs onto the control panel via this connector and is held in place by four plastic pillars located in each corner.

Local Expander Zones

The *Premier 8XE Local Zone Expander* has eight programmable zone inputs (see page 13 for wiring details). Each zone is also fully programmable (see page 24 for programming details).

The table below shows the zone allocation when the module is installed:

Panel	Panel Zones	Expander Zones
Premier 412	1 to 4	9 to 16
Premier 816	1 to 8	9 to 16
Premier 832	1 to 8	9 to 16

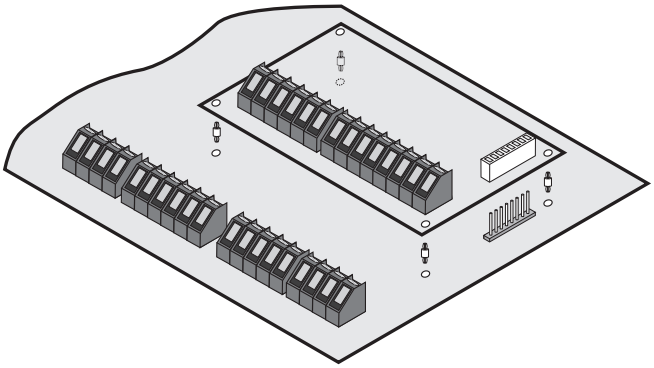
NOTE When the system is expanded above 8 zones, it MUST be fitted with a suitable remote keypad. For systems up to 16 zones a *Premier RKP16* or *Premier RKP16 Plus* should be installed. For systems above 16 zones a *Premier LCD*/*LCDL* should be installed.

The system will only support one type of expansion device for zones 09 - 16, i.e., you can fit either a *Premier 8X Remote Expander* (Address = 1) or a *Premier 8XE Local Expander*, you cannot fit both.

Installing the Local Zone Expander

➤ **To install the Local Zone Expander proceed as follows:**

1. Ensure that all power is removed from the control panel (mains and battery) before attempting to fit the expander.
2. Push the four support pillars (supplied) into the four locating holes on the control panel PCB.
3. Align the Local Expander Connector with the 8 way plug (JP2) on the control panel. Push expander into place, ensuring that all four pillars clip into the four locating holes on the local expander.



Zone Connections

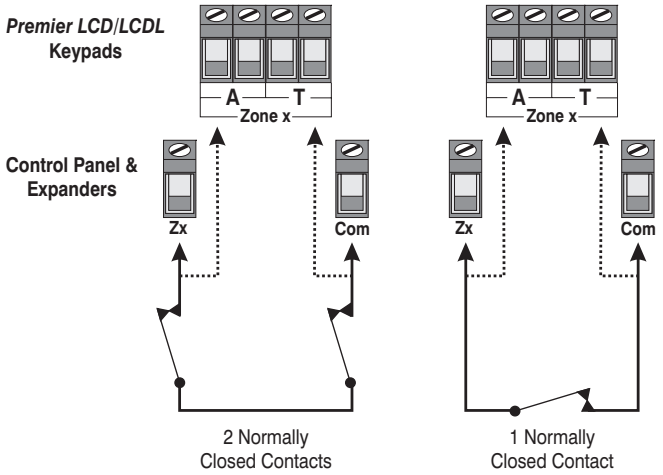
Each zone on the system is fully programmable to allow for maximum flexibility (see page 24 for Zone Programming details). The program options for a zone will also determine how the zone may be wired. The following wiring options are available:

Type	Zone Status	Response
⓪ Normally Closed	Shorted	Secure
	> 20K	Active
① Normally Open	Shorted	Active
	> 20K	Secure
② Single EOL - N/C & N/O (Burglary)	0 - 1K	Active
	1.1K - 4.7K	Secure
	> 4.8K	Active
③ Single EOL - N/O (Fire)	0 - 1K	Active
	1.1K - 4.7K	Secure
	> 4.8K	Trouble
④ Single EOL - N/C	0 - 1K	Trouble
	1.1K - 4.7K	Secure
	> 4.8K	Active
⑤ Single EOL - O/C Tamper	0 - 1K	Secure
	1.1K - 4.7K	Active
	> 4.8K	Tamper
⑥ Single EOL - S/C Tamper	0 - 1K	Tamper
	1.1K - 4.7K	Secure
	> 4.8K	Active
⑦ Double EOL	0 - 1K*	Tamper
	1.1K - 4.4K	Secure
	4.5K - 20K	Active
	> 20K	Tamper
⑧ Zone Doubled	Shorted	Zones A & B Trouble
	1.0K - 2.2K	Zones A & B Secure
	4.8K - 6.0K	Zone A Violated
	2.3K - 4.7K	Zone B Violated
	Open	Zones A & B Violated
⑨ Triple EOL	0 - 1K	Tamper
	1.1K - 4.0K	Secure
	4.1K - 5.6K	Trouble (Fault)
	5.7K - 8.0K	Active
	8.1K - 20K	Trouble (Masked)
	> 20K	Tamper

***** This value may vary depending on the country variant.

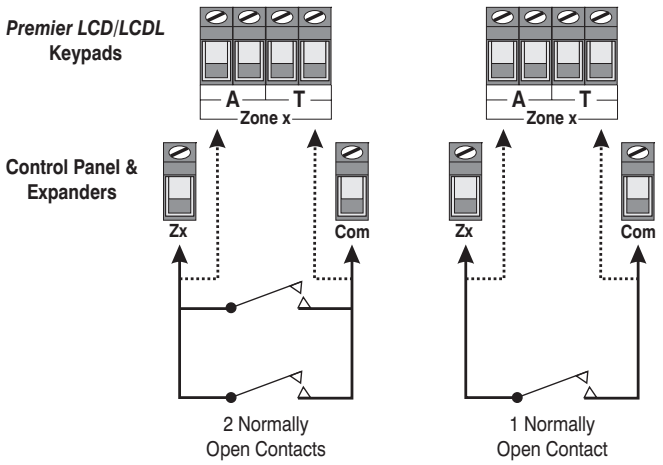
Normally Closed

Use this wiring configuration when connecting normally closed detection devices to the zone. Ensure that the zone is programmed for Normally Closed operation (see page 26). The zone must be wired as follows:



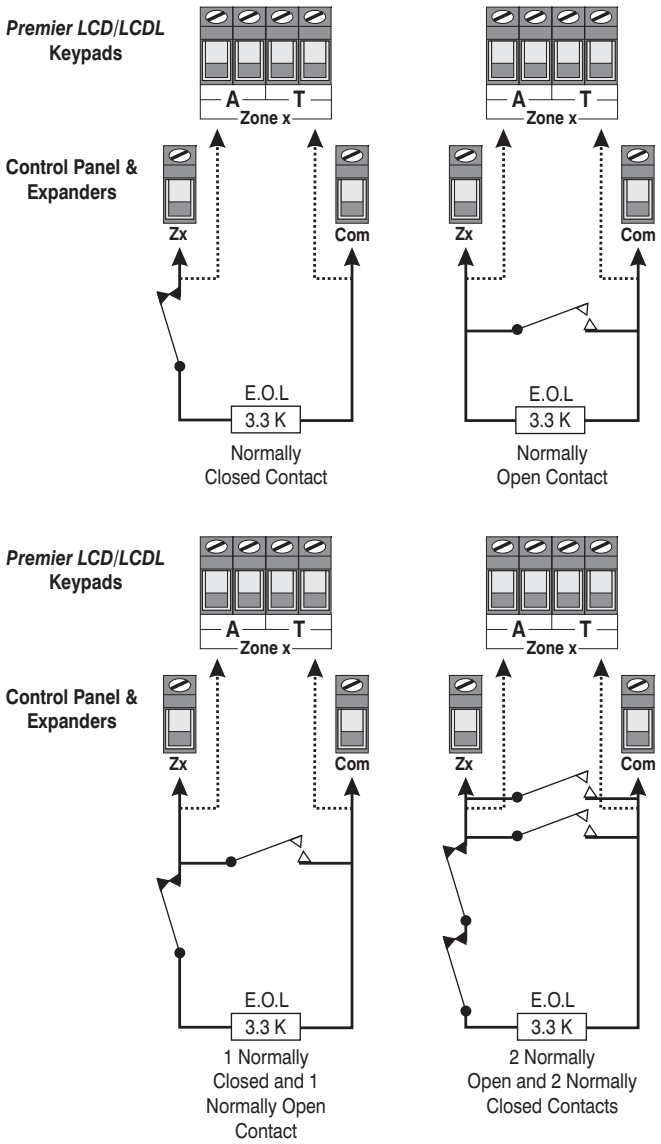
Normally Open

Use this wiring configuration when connecting normally open detection devices to the zone. Ensure that the zone is programmed for Normally Open operation (see page 26). The zone must be wired as follows:



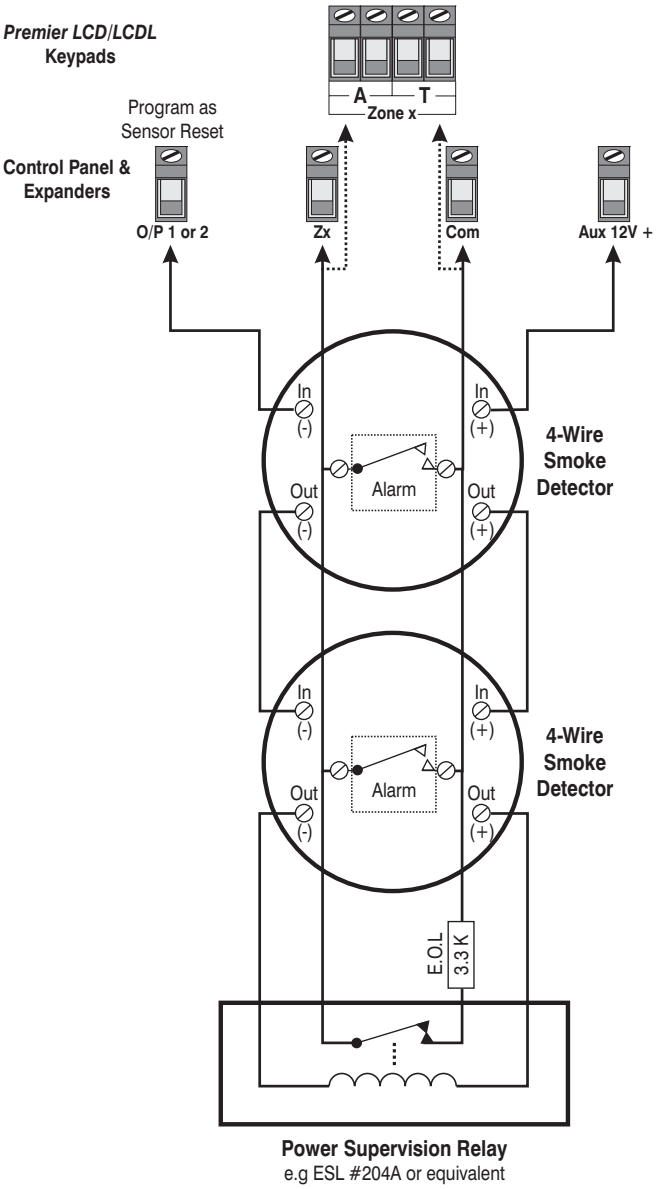
Single EOL - N/C & N/O (Burglary)

Use this wiring configuration when connecting a mixture of normally closed and normally open detection devices to the zone. Ensure that the zone is programmed for Single EOL - N/C & N/O operation (see page 26). The zone must be wired as follows:



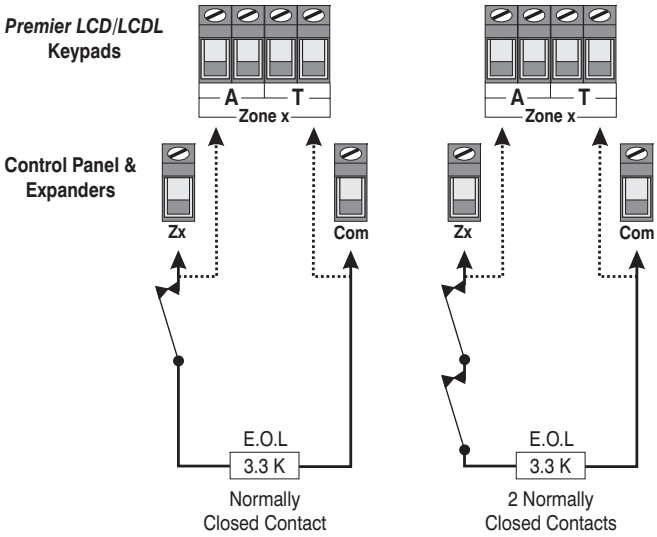
Single EOL - N/O (Fire)

Use this wiring configuration when connecting a 4-wire smoke detector to the zone. Ensure that the zone is programmed for Single EOL - N/O (Fire) operation (see page 26). The zone must be wired as follows:



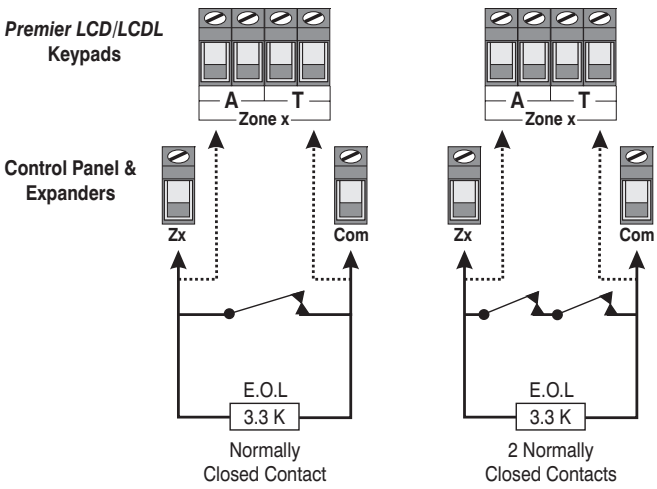
Single EOL - N/C

Use this wiring configuration when connecting just normally closed detection devices to the zone. Ensure that the zone is programmed for Single EOL - N/C operation (see page 26). The zone must be wired as follows:



Single EOL - O/C Tamper

Use this wiring configuration when connecting just normally closed detection devices to a zone and when a tamper response is required in the event of an open circuit. Ensure that the zone is programmed for Single EOL - O/C Tamper operation (see page 26). The zone must be wired as follows:

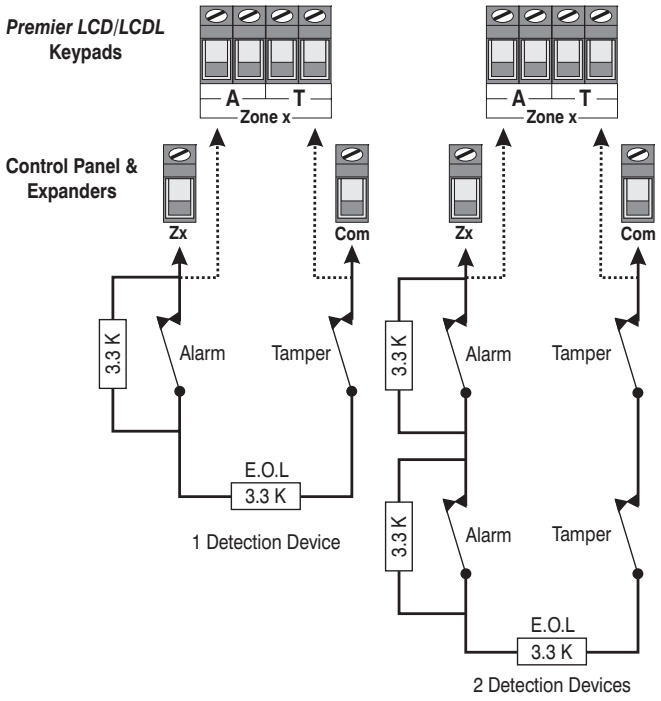


Single EOL – S/C Tamper

Use this wiring configuration when connecting just normally closed detection devices to the zone and when a tamper response is required in the event of a short circuit. Ensure that the zone is programmed for Single EOL - S/C Tamper operation (see page 26). Wire Single EOL - S/C Tamper zones as shown for Single EOL - N/C.

Double EOL

Use this wiring configuration when connecting detection devices to a zone that requires alarm/tamper monitoring. Ensure that the zone is programmed for Double EOL operation (see page 26). The zone must be wired as follows:

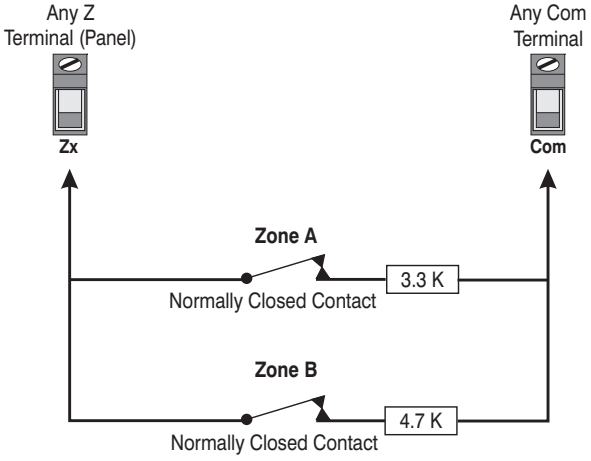


Zone Doubling

This wiring option allows you to wire two detection devices into one set of zone connections. However, the system will treat each device, as if it were connected to a separate zone, i.e., each device is fully programmable.

NOTE When using this configuration, the system must be fitted with the appropriate keypad, *Premier RKP16* on the *Premier 816* and the *Premier RKP8* on the *Premier 412*.

When a zone is configured for “Zone Doubled” it must be wired as follows:



The following table shows how each physical zone is mapped when using the “Zone Doubled” configuration:

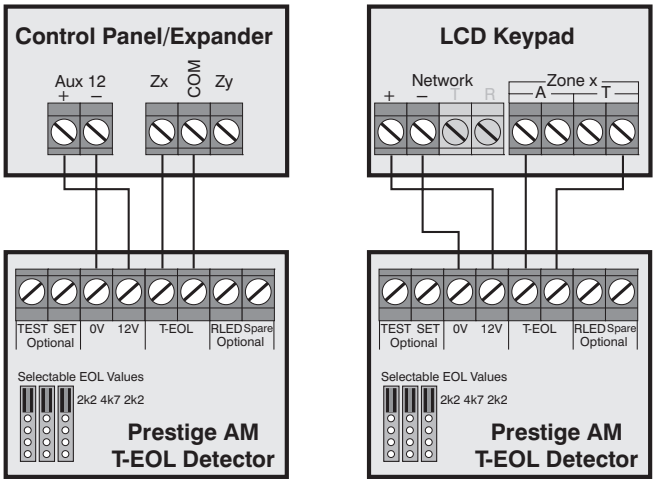
Premier 412		
Panel Zone	**Zone A**	**Zone B**
1	1	5
2	2	6
3	3	7
4	4	8
Premier 816/832		
Panel Zone	**Zone A**	**Zone B**
1	1	9
2	2	10
3	3	11
4	4	12
5	5	13
6	6	14
7	7	15
8	8	16

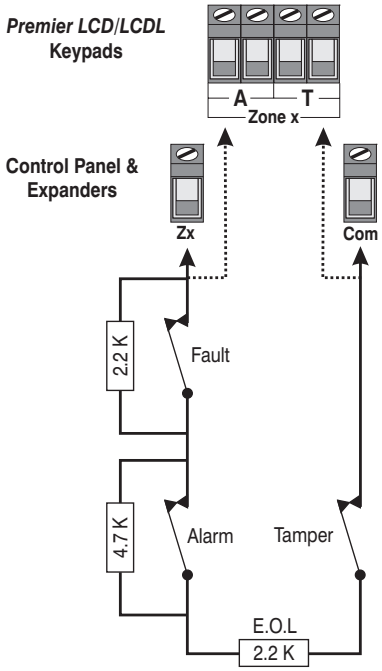
NOTE Zones above 9 on either the *Premier 8X/8XE Expander* MUST not be configured for “Zone Doubled”.

The *Premier 8X/8XE Expander* cannot be used on the *Premier 816/832* control panels if any of zones 1 - 8 are configured as “Zone Doubled”.

Triple EOL

This wiring option is designed to be used with Texecom detectors that support Triple EOL (T-EOL) wiring. Ensure that the zone is programmed for Triple EOL operation (see page 26). The zone must be wired as follows:

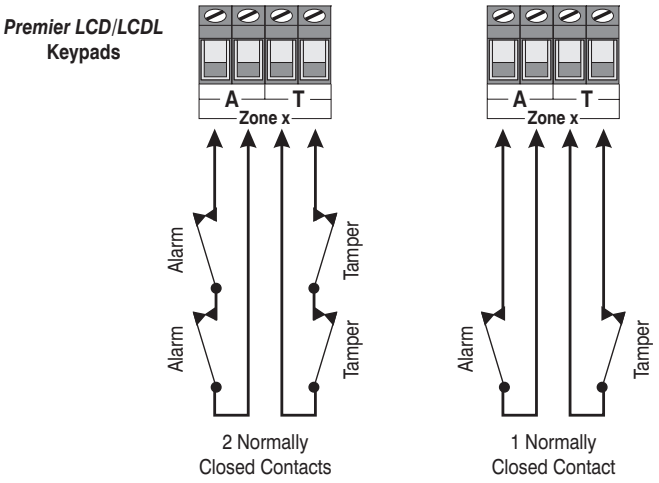




NOTE Triple EOL wiring can only be used on remote keypads and remote expanders that are fitted with V7.1 software or above..

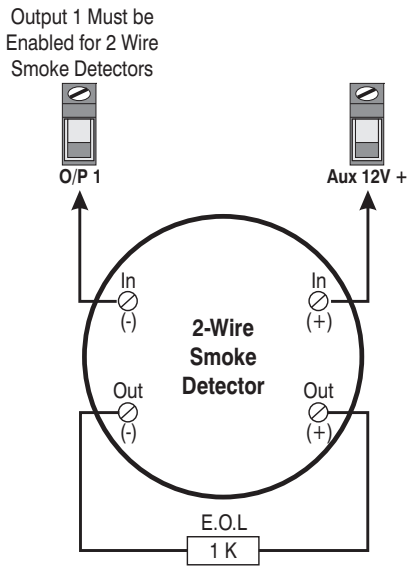
Double Pole

This wiring configuration can only be used on the *Premier LCD/LCDL* remote keypads. It provides monitoring for alarm and tamper using normally closed detection devices. Ensure that the zone is programmed for Double EOL operation (see page 26). The zone must be wired as follows:



2-Wire Smoke Detector

Compatible 2-wire smoke detectors such as the ESL429AT or System Sensor 2100TS can be connected as shown:



NOTE Panel Output 1 must be enabled for 2-wire smoke detection (see page 35 for details).

The jumper link fitted across JP1 (Enabled 2-Wire Smoke Det.) MUST be removed.

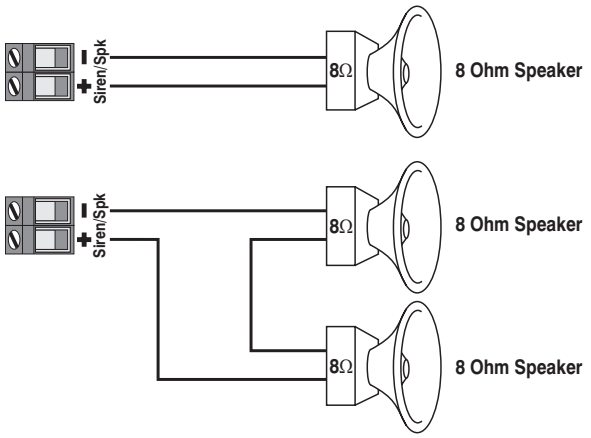
The maximum number of detectors is 20.

Speaker/Bell Connections

The Siren/Spk output terminals on the main PCB can be configured for Speaker or Siren/Bell operation.

Speaker Operation

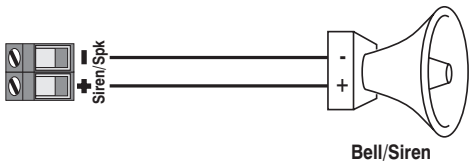
When configured as speaker operation the output can be used for driving 8 or 16 Ohm loud speakers as shown:



NOTE The Siren/Spk output must be enabled for speaker driver (see page 35 for details).

Siren/Bell Operation

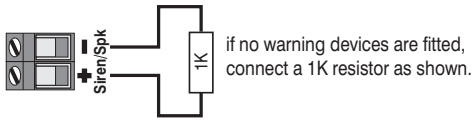
When configured as bell operation the output terminals provide up to **750mA** of power for driving bells as shown:



NOTE The Siren/Spk output must be enabled for bell driver (see page 35 for details).

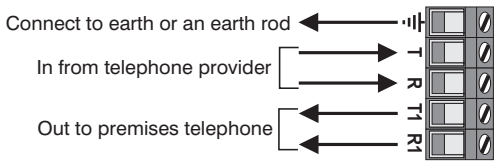
Siren/Spk Supervision

The Siren/Spk output is supervised, if no warning devices are fitted, either disable Siren Supervision (see page 36 for details) or connect a 1KΩ resistor between the Siren terminals as shown:



Telephone Line Connections

The control panel has a built in digital communicator and modem, which is used for communicating with an alarm receiving centre and for downloading. If either of these features are used, a telephone line must be connected to the control panel as shown:



Failure to fit an earth cable may prevent proper operation of the system and will invalidate the Texecom warranty and product approvals.

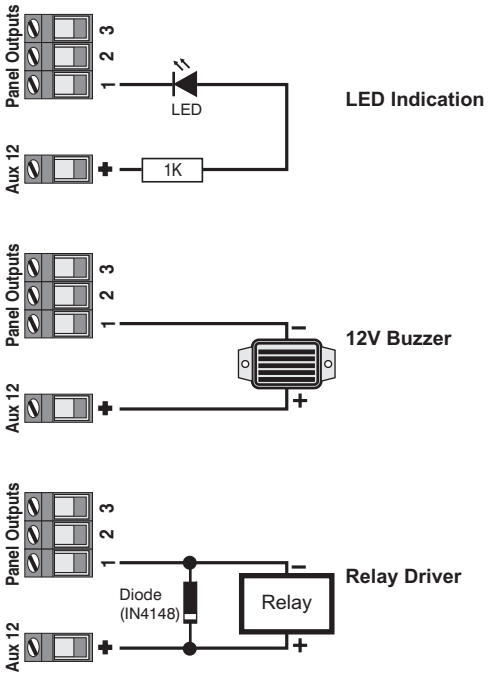
Panel Outputs 1 - 8

The control panel has eight programmable outputs, which can be used to drive auxiliary devices such as relays, LED's, smoke detectors etc. The table below shows the electrical characteristics for each output:

No	Supervised	Max Current	Type
1	Yes	1 Amp	Switched –ve
2	Yes	1 Amp	Switched –ve
3	No	100mA	Switched –ve
4	No	100mA	Switched –ve
5	No	100mA	Switched –ve
6	No	100mA	Switched –ve
7	No	100mA	Switched –ve
8	No	100mA	Switched –ve

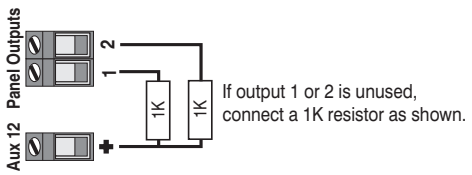
Output Wiring

The figure below shows some typical wiring examples:



Output Supervision

Panel outputs 1 and 2 are supervised, if either output is unused, either disable the relevant output supervision (see page 36 for details) or connect a 1KΩ resistor between the relevant output terminal and Auxiliary 12V+ as shown:



3. Commissioning & Troubleshooting

Commissioning

Once ALL connections have been made to the control panel and power is ready to be applied, you should read this section before continuing.

When applying power for the first time, the factory default settings will automatically be loaded. The default settings ensure that the control panel software is reset and all programming information is loaded into memory. For a complete list of factory default settings, please refer to the accompanying "Installation Records and Defaults" booklet.

NOTE The control panel will only load the default values if the lid tamper is open.

- Connect the black battery lead to the negative (–) terminal of the standby battery and the red battery lead to the positive (+) terminal of the standby battery. The green power light on the main PCB will flash whilst the default values are being loaded.
- If the system has gone into an alarm condition, enter the default Master User code (5)(6)(7)(8). The alarm tone will then stop.
- To access the Engineer Programming Menu, **enter the default Engineer code (1)(2)(3)(4) and press** (Menu) **followed by** (9). All the zone lights will illuminate.
- Program the system date and time, see page 67.
- Program the system as described in the next section (Programming the Control Panel).
- Perform a walk test as described on page 67. Remember that some powered detectors (e.g. PIRs and combined technology detectors) take several minutes to warm up and become operational.
- Test the internal sounder, external sounder and strobe as described on page 67.
- Replace the lid and secure with the two lid screws supplied - **do not over-tighten**.
- Replace the screw covers.
- **Press** (Menu) to leave the programming menus. All the zone lights will turn off.
- The **Service** light will be flashing to indicate that action is required. Switch on the mains supply to the control panel. The **Service** light will stop flashing and stay on continuously.

Installation is now complete and the system is ready for use.

Troubleshooting

Power Faults

No Power to Unit (mains only)

- Check the mains block fuse and replace if blown.
- Check for any loose wires at the mains block, the transformer and the AC terminals on the PCB.
- Check the mains block is connected correctly; live to live (brown), neutral to neutral (blue).

No Power to Unit (battery only)

- Make sure the "Kick Start" pins have been shorted together.
- Check for any loose wires at the BATT terminals on the PCB.
- Check that the battery wires are connected correctly; red from BATT+ to the battery positive [+], black from BATT- to the battery negative [–].

Remote Keypads

Keypad Does Not Operate at All

- Check that the remote keypad is wired correctly from the control panel.
- Check that the network fault indicator is off. If the indicator is on, the electronic fuse has activated indicating a short circuit across the [+] and [–] of the network terminals.

Keypad Does Not Accept Access Codes

- If the system has more than one remote keypad check that each keypad is addressed differently, see page 10 for details. The address of a keypad can be checked by pressing the (Area) and (Arm) keys together, the address is displayed by the relevant zone light.
- Check that the remote keypad is wired correctly from the control panel.
- If the remote keypad is on a cable run that is longer than 100m, check the voltage between the [+] and [–] terminals at the remote and ensure that it measures no less than 10.0V.
- Check that you are using the correct Access code. The default Engineer code is (1)(2)(3)(4) and the default Master User code is (5)(6)(7)(8).
- Check that the User code you are using is not "Time Locked", if the User code is time locked then the Access code will only be accepted when Control Timer 1 is off, see page 64 for further details.

Keypad Does Not Generate Alarm Tones etc.

- Each keypad can be configured so that the alarm, entry, exit, chime tones etc. can be enabled or disabled. Check that the keypad has been programmed correctly, see page 40 for details.

Keypad Emergency Keys Do Not Operate

- Each keypad can be configured so that the emergency keys **FIRE**, **POLICE** and **MEDICAL** can be enabled or disabled. Check that the keypad has been programmed correctly, see page 40 for details.

Remote Expander

Expander Does Not Operate at All

- Check that the expander is wired correctly from the control panel.
- Check that the network fault indicator is off. If the indicator is on, the electronic fuse has activated indicating a short circuit across the [+] and [–] of the network terminals.

System Does Not Recognise Zones 9 to 16

- If the expander is on a cable run that is longer than 100m, check the voltage between the [+] and [–] terminals at the remote and ensure that it measures no less than 10.0V.

The Speaker Output Does Not Work

- The expander can be configured so that the alarm, entry, exit, chime tones etc. can be enabled or disabled. Check that the expander has been programmed correctly, see page 43 for details.
- The speaker volume on the expander is electronically adjustable. Check the volume is set to the desired level, see page 43 for details.

Zones

One or More Zones Show an Alarm

- Each zone on the system can be configured for different wiring options. Check that the zones are programmed for the correct wiring configuration, see page 26 for further details.
- Check that the zone is wired correctly, see page 13 for further details.

Service Faults

If the Service light is on or flashing then the system has detected one or more fault conditions, for details on how to view and acknowledge Service Faults see page 75.

On Power-Up the Service Light is On

- When the system is powered-up the system date and time are incorrect. This will cause a Date/Time Loss fault, to clear this fault, program the system date and time, see page 67.
- If the battery presence check is enabled the system will check the battery every 30 seconds. If the system does not have a battery connected then a battery fault will be generated. To clear this fault either connect a battery or disable the battery presence check, see page 35.
- Panel outputs 1 and 2 are supervised outputs, if you have not connected a device to either of these outputs the system will generate an output fault. To clear this fault either fit 1K load resistors between the outputs and +12V, see page 18 or disable the monitoring of outputs 1 and 2, see page 36.
- The Siren output is a supervised output, if you have not connected a device to this output the system will generate a siren fault. To clear this fault either fit 1K load resistors between the siren terminals, see page 17 or disable the monitoring of the siren output, see page 36.

Communicator

The Communicator Will Not Dial

- By default the communicator is disabled, check that the communicator is enabled, see page 51.
- Check that the telephone line has been correctly wired to the control panel.
- Check that the primary telephone number is programmed correctly, see page 52.
- Check that the primary account number is programmed correctly, see page 52.
- Check that the primary protocol is programmed correctly, see page 52.
- Check that the primary dial attempts is not programmed as zero, see page 52.
- Check that the primary reporting partitions have been programmed correctly, see page 53.
- Check that the primary reporting options have been programmed correctly, see page 53.

Communicator Dials But Does Not Communicate

- Check that the primary telephone number is programmed correctly, see page 52.
- Check that the primary account number is programmed correctly, see page 52.
- Check that the primary protocol is programmed correctly, see page 52.
- If you are using either Pulse or Express formats check that the protocol is configured correctly, see page 53.

Operation

The System Will Not Allow Arming

- Check that there are no outstanding Service Faults, see page 75.
- Check that there are no outstanding alarms that require resetting, see page 74.
- Check that the User code has been programmed to allow arming, see page 64.
- Check that the User code has been assigned to the correct partition(s), see page 64.
- If the User code is programmed for “Local Partition Access Only” (see page 65) then ensure that the keypad that is being used is assigned to the correct partition, see page 40.

The System Will Not Allow Disarming

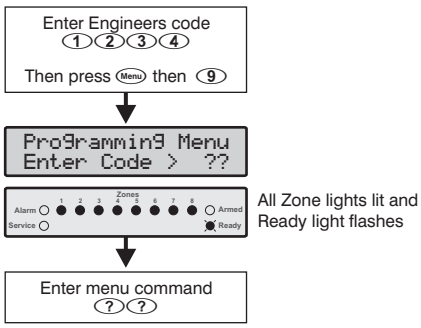
- Check that the User code has been programmed to allow disarming, see page 64.
- Check that the User code has been assigned to the correct partition(s), see page 64.
- If the User code is programmed for “Local Partition Access Only” (see page 65) then ensure that the keypad that is being used is assigned to the correct partition, see page 40.

4. Programming the Control Panel

Introduction

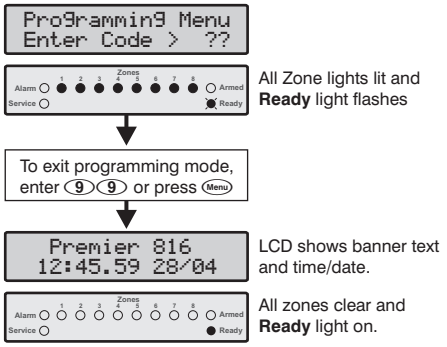
All engineers should read this section carefully so as to familiarise themselves with the programming of the control panel.

The programming menus can only be accessed when the control panel is fully disarmed. **Enter the default Engineer code (1)(2)(3)(4) and press (Menu) followed by (9)** to access the program menus:



A programming menu is selected by entering a two-digit menu code. On completion of each menu option, the system reverts to the main programming menu, allowing other programming menu options to be accessed.

To exit the programming menu **enter (9)(9)** or **press the (Menu)** key, the system will revert to normal operation:



NOTE If the "EN 50131-1 Requirements" option is programmed as enabled (see page 36) the Engineer code will only be accepted after a user has authorised Engineer access. For information on complying with EN 50131-1 please refer to page 78.

Factory Defaults

All programming defaults are shown in the accompanying "Installation Records and Defaults" booklet.

Viewing Numeric Data (LED Keypads)

When programming numeric data, the value of the data may be viewed by pressing the (Area) key. The keypad will flash the value in sequence using the following lights:

Alarm = 0
Zone 1 = 1
Zone 2 = 2
Zone 3 = 3
Zone 4 = 4
Zone 5 = 5
Zone 6 = 6
Zone 7 = 7
Zone 8 = 8
Armed = 9

Programming Text (LCD Only)

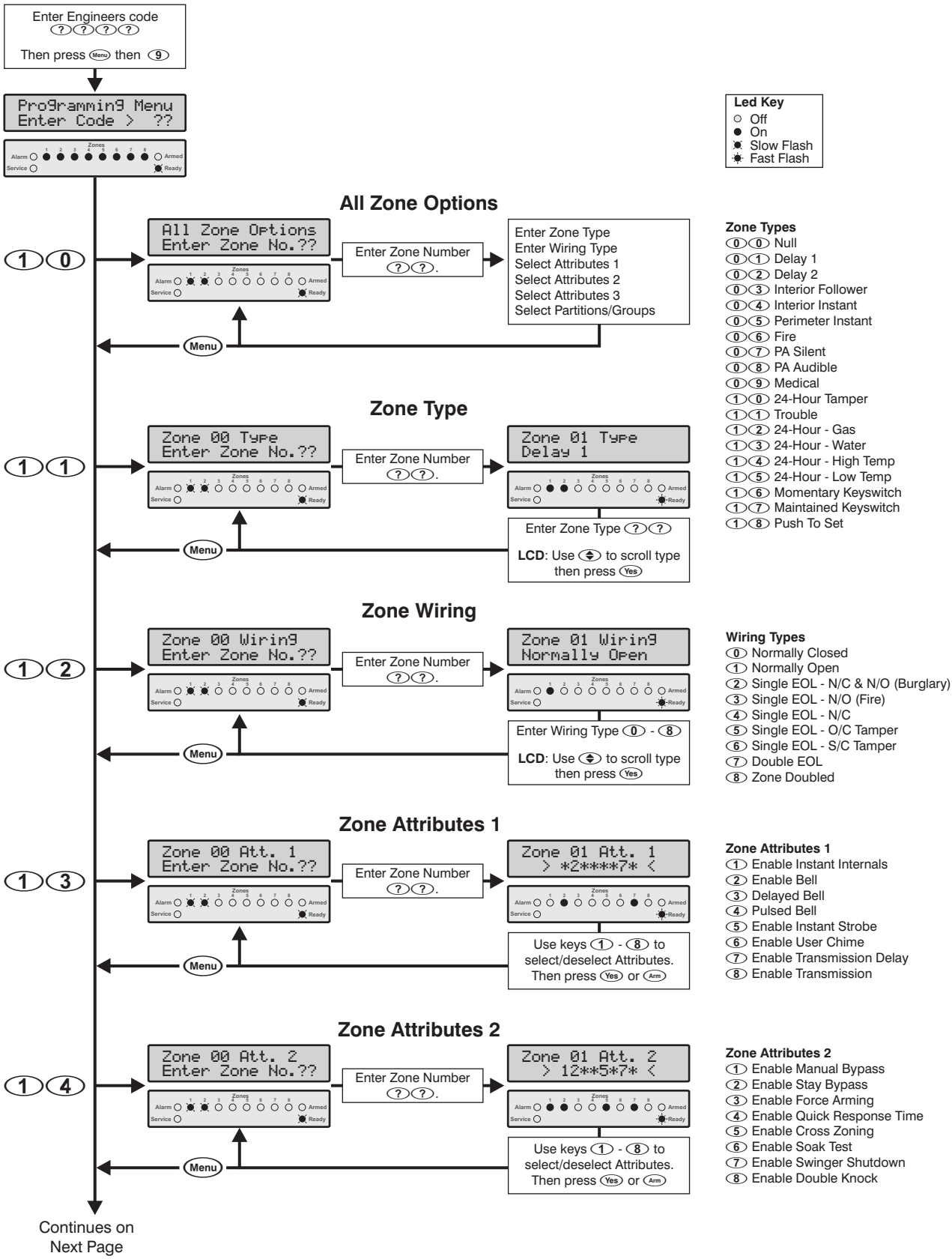
Text is programmed in a similar way to mobile phones. Characters are selected by pressing the corresponding key the appropriate number of times (to select a character on the same key, press (◆) to move the cursor along).

The table below shows the keys to use and the characters that are assigned to them:

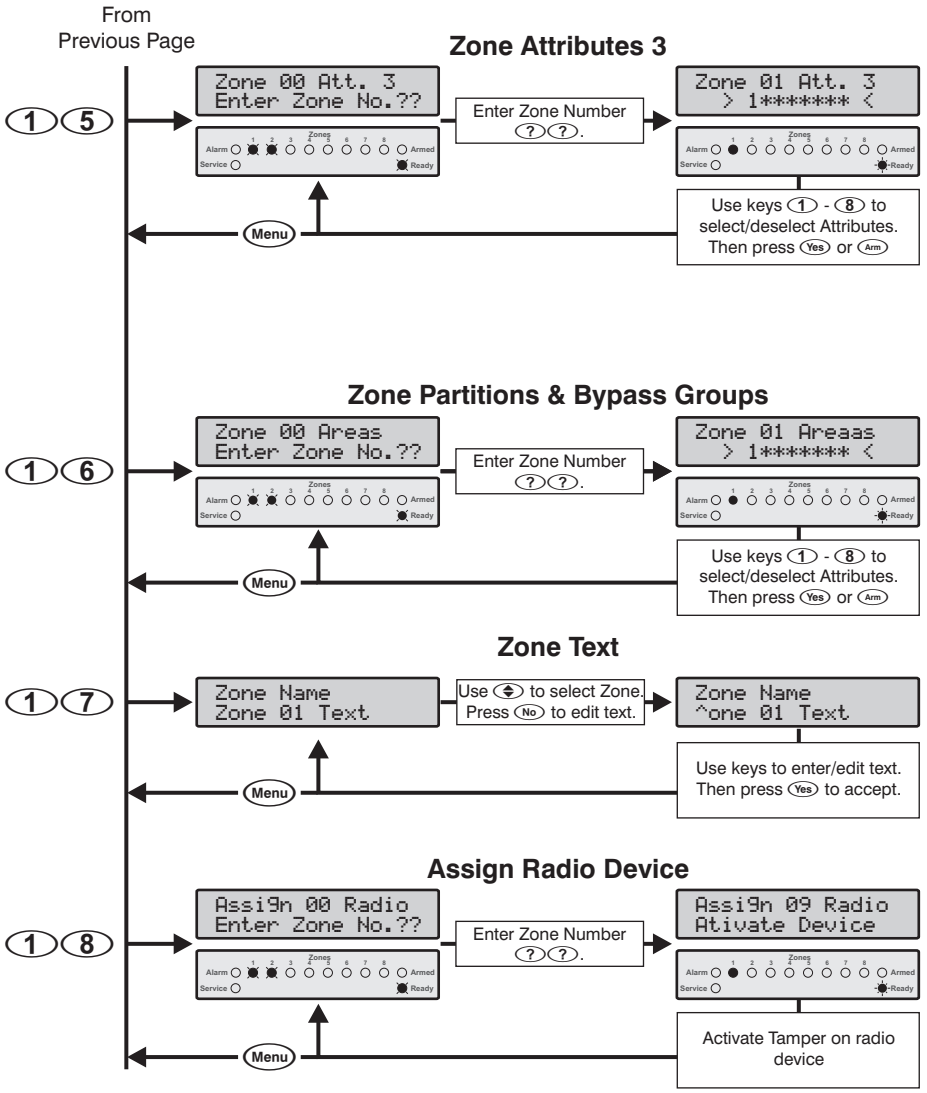
Key	Characters								
(1)	.	,	?	!	1	@	"	-	&
(2abc)	a	b	c	2	A	B	C		
(3def)	d	e	f	3	D	E	F		
(4ghi)	g	h	i	4	G	H	I		
(5jkl)	j	k	l	5	J	K	L		
(6mno)	m	n	o	6	M	N	O		
(7pqrs)	p	q	r	s	7	P	Q	R	S
(8tuv)	t	u	v	8	T	U	V		
(9wxyz)	w	x	y	z	9	W	X	Y	Z
(0 _)	_	0	,	#	*	Custom characters			
(◆)	Move cursor left and right								
(Reset)	Backspace (delete)								
(Yes)	Accept text								

Program Menus

Programming Zones



Continues on Next Page



Zone Attributes 3
1 Change to Delay 1 on Stay Arm
2 Change to Follower on Stay Arm
3 Zone Warning
4 Auto Reinstate if Force Armed
5 Disable Key Switch if Away Armed
6 Disable Exit Faults
7 Truncate Exit Delay
8 Forced Walk Test

Zone Attributes 3 (Key Switch)
3 Key Switch is Instant Arming
4 Key Switch will Stay Arm/Disarm
6 Disable Auto Arm

Zone Partitions & Bypass Groups
1 Enabled for Partition 1
2 Enabled for Partition 2
3 Enabled for Partition 3
4 Enabled for Partition 4
5 Enabled for Bypass Group 1
6 Enabled for Bypass Group 2
7 Enabled for Bypass Group 3
8 Enabled for Bypass Group 4

Text Editing Keys
1 . , ? ! 1 @ " - &
2 a b c 2 A B C
3 d e f 3 D E F
4 g h I 4 G H I
5 j k l 5 J K L
6 m n o 7 M N O
7 p q r s 7 P Q R S
8 t u v 8 T U V
9 w x y z 9 W X Y Z
0 Space 0 , # *
↕ Move Left/Right
Reset Backspace (delete)

All Zone Options 1 0

This menu option allows you to program the Zone Type, Zone Wiring, Zone Attributes 1, Zone Attributes 2, Zone Attributes 3 and Partitions & Bypass Groups all in one sequence.

Zone Type 1 1

How the alarm system responds, when a zone is violated depends on the zone type. The following zone types are available:

0 0 Null
A zone that is not monitored by the system, unused zones should be programmed as Null zones.

0 1 Delay 1
This zone type is normally used for entry/exit detection. The zone can be violated during the exit delay without causing an alarm. Once the system/partition is armed, activation of the zone will start the Entry Delay 1 timer for the selected partition. The user must disarm the system before the entry timer elapses or the system will generate an alarm.

0 2 Delay 2
Operates as Delay 1, but uses Entry Delay 2 timer for the selected partition.

0 3 Interior Follower
This zone type is normally used for interior detection devices, such as passive infrared sensors. The zone will not cause an alarm if violated during the entry delay. However, if the zone is violated before the entry delay has started, it will generate an instant alarm.

0 4 Interior Instant
This zone type is normally used for interior detection where an instant response is required. The zone will cause an instant alarm if it is violated when the system/partition is armed.

0 5 Perimeter Instant
This zone type is normally used for perimeter protection, windows, patio doors etc. The zone will cause an instant alarm if it is violated when the system/partition is armed.

(0)(6) Fire
This zone type is normally used for monitoring smoke detectors. The zone will cause a unique alarm with distinctive 'fire' tone if it is violated when the system/partition is armed or disarmed. In addition, the bell output will be pulsed rather than sounding continuously as with a normal alarm.

If the "Double Knock" attribute is enabled on a Fire zone, the zone will behave as a verified fire zone. On the first activation the panel will start the "Double Knock" timer then remove power to the smoke detector (Sensor Reset on Reset) for a short period, then reapply the power (to reset the detector). If the detector activates again before the timer expires the panel will generate a verified fire alarm condition.

(0)(7) PA Silent
This zone type is normally used for monitoring Panic or hold-up alarms. The zone will cause a silent alarm if it is violated when the system/partition is armed or disarmed.

(0)(8) PA Audible
This zone type is normally used for monitoring Panic or hold-up alarms. The zone will cause an instant audible alarm if it is violated when the system/partition is armed or disarmed.

(0)(9) Medical
This zone type is normally used for monitoring medical alarms. The zone will cause a silent alarm if it is violated when the system/partition is armed or disarmed.

(1)(0) 24-Hour Tamper
This zone type will cause an instant audible alarm if it is violated when the system/partition is armed or disarmed.

(1)(1) Trouble
This zone type will cause an internal alarm (keypads and speaker) if it is violated when the system/partition is armed or disarmed.

(1)(2) 24-Hour - Gas
This zone type will cause a silent alarm if it is violated when the system/partition is armed or disarmed. The panel will report a 24-Hour Gas alarm to the monitoring station if communication is enabled.

(1)(3) 24-Hour - Water
This zone type will cause a silent alarm if it is violated when the system/partition is armed or disarmed. The panel will report a 24-Hour Water alarm to the monitoring station if communication is enabled.

(1)(4) 24-Hour - High Temperature
This zone type will cause a silent alarm if it is violated when the system/partition is armed or disarmed. The panel will report a 24-Hour High Temperature alarm to the monitoring station if communication is enabled.

(1)(5) 24-Hour - Low Temperature
This zone type will cause a silent alarm if it is violated when the system/partition is armed or disarmed. The panel will report a 24-Hour Low Temperature alarm to the monitoring station if communication is enabled.

(1)(6) Momentary Key Switch
This zone type can be used to arm/disarm and reset one or more partitions. When the zone is violated and then secured the system will arm the partition(s) assigned to the zone. When the zone is subsequently violated and then secured, the system will disarm the partition(s) assigned to the zone. Operating this zone following an alarm condition resets the assigned partition(s). The operation of this zone type can be further changed, see "Zone Attributes 3" on page 28.

(1)(7) Maintained Key Switch
This zone type can be used to arm/disarm and reset one or more partitions. When the zone is violated the system will arm the partition(s) assigned to the zone. When the zone is subsequently secured, the system will disarm the partition(s) assigned to the zone. Operating this zone following an alarm condition resets the assigned partition(s). The operation of this zone type can be further changed, see "Zone Attributes 3" on page 28.

(1)(8) Push to Set
This zone type is used to arm the system/partition. When the system is armed, the panel will provide an infinite exit delay. When a user violates and restores the Push to Set zone, the panel will wait 5 seconds, then arm the system/partition.

NOTE To enable the Push to Set feature, the exit delay timer for the selected partition MUST be programmed to 255 seconds.

Zone Wiring (1)(2)

The zone wiring option determines how the detection device may be electrically wired to the zone input. It also determines what status conditions can be monitored. See page 13 for details on wiring zones.

The following wiring types are available:

(0) Normally Closed
(1) Normally Open
(2) Single EOL - N/C & N/O (Burglary)
(3) Single EOL - N/O (Fire)
(4) Single EOL - N/C
(5) Single EOL - O/C Tamper
(6) Single EOL - S/C Tamper
(7) Double EOL
(8) Zone Doubled
(9) Triple EOL

Zone Attributes 1 (1)(3)

Zone Attributes 1 can be assigned to a zone to alter its default operation. The function of each attribute is described as follows:

(1) Enable Instant Internal Alarm Tones
On: The keypad sounder and speaker driver will sound immediately the zone causes an alarm.
Off: The keypad sounder and speaker driver will sound after the bell delay timer. (Zone must also be programmed for Delayed Bell).

② **Enable Bell**
On: The bell output will trigger when the zone causes an alarm.
Off: The bell output will not trigger.

③ **Delayed Bell**
On: The bell output is delayed when the zone causes an alarm.
Off: The bell output is instant.

④ **Pulsed Bell**
On: The bell output is pulsed on and off when the zone causes an alarm (Fire).
Off: The bell output is constant.

⑤ **Enable Instant Strobe**
On: The strobe output will trigger immediately the zone causes an alarm.
Off: The strobe output will trigger after the bell delay timer. (Zone must also be programmed for Delayed Bell).

⑥ **Enable User Chime**
On: The keypad sounder and speaker driver will generate a chime tone when zone is violated in the disarmed state.
Off: The zone will respond as normal.

⑦ **Enable Transmission Delay**
On: The on-board communicator will delay the alarm transmission to the monitoring station when the zone causes an alarm.
Off: The transmission is instant.

⑧ **Enable Transmission**
On: The on-board communicator will report the alarm status to the monitoring station when the zone causes an alarm.
Off: The alarm status is not reported.

Zone Attributes 2 ①④

Zone Attributes 2 can be assigned to a zone to alter its default operation. The function of each attribute is described as follows:

① **Enable Manual Bypass**
On: The user can bypass the zone.
Off: The user cannot bypass the zone.

② **Enable Stay Bypass**
On: The zone is automatically bypassed when the system is stay armed.
Off: The zone is not bypassed when stay armed.

③ **Enable Force Arming**
On: The user can arm the system/partition with the zone violated.
Off: The zone must be secure before the system/partition can be armed.

④ **Quick Response Time**
On: The zone response time is governed by the Zone Loop Response Timer (see page 34).
Off: The zone response time is fixed at 250ms.

⑤ **Enable Cross Zoning**
On: When two or more zones are programmed with this attribute, the system will start the Cross Zone Delay timer after the first zone is violated. If another Cross Zone is violated before the timer expires the system will report a Verified Cross Zone alarm.
Off: The zones report as normal.

⑥ **Enable Soak Test**
On: The zone is selected for soak test. During the soak test period the zone will not cause an alarm if violated, but the system will record the event in the log and indicate a Service Required Fault. This fault condition can only be cleared, by performing a "Reset" with the Engineer's code.
Off: The zone responds as normal.

⑦ **Enable Swinger Shutdown**
On: The zone will only rearm at the end of the bell duration providing the Swing Shutdown limit has not been reached.
Off: The zone always rearms at the end of the bell duration and subsequent violations of the zone will cause the system to reactivate the bell and report the alarm to the monitoring station.

⑧ **Enable Double Knock**
On: When a zone is enabled for Double Knock it will only cause an alarm when:
a) The zone remains violated for the duration of the "Cross Zone Time Window".
b) The zone is violated twice within the "Cross Zone Time Window".
c) If any two zones within the same partition with the "Double Knock" attribute are violated during the "Cross Zone Time Window".
Off: The zone responds as normal.

Zone Attributes 3 ①⑤

Zone Attributes 3 can be assigned to a zone to alter its default operation. The function of each attribute is described as follows:

① **Change to Delay 1 on Stay Arm**
On: The zone will change to a Delay 1 zone type when the system is Stay armed.
Off: The zone type will not change.

② **Change to Follower on Stay Arm**
On: The zone will change to a Follower zone type when the system is Stay armed.
Off: The zone type will not change.

③ **Zone Warning**
On: The panel will generate an internal alarm when the zone remains active for 2 minutes during the disarmed state.
Off: The panel will respond as normal.

④ **Auto Reinstate if Force Armed**
On: When a zone is force armed (bypassed), it will automatically be reinstated when the zone is secured.

Off: Force armed zones remain bypassed until the partition is disarmed.

⑤ Disable Keyswitch when Away Armed

On: The keyswitch zone is disabled once the system is Away armed, i.e., it cannot be used to disarm the selected partitions.

Off: The keyswitch zone can be used to arm and disarm the selected partitions.

⑥ Disable Exit Faults

On: The zone will not cause the panel to generate a fault tone or extinguish the "Ready" light, if violated during the exit mode.

Off: The zone behaves as normal.

⑦ Truncate Exit Delay

On: When the zone is activated during exit, the panel will truncate any remaining exit time to zero. This attribute would normally be used with Delay 1/Delay 2 zone types.

Off: The zone behaves as normal.

⑧ Forced Walk Test

On: When arming the system the zone will be indicated as active, if the zone has not been activated during the "Activity Time Window", see page 34. This will force the user to check that the zone is secure, on activating the zone the system will clear the indication from the remote keypad and the user may continue to arm the system. This feature can be used on detectors that are at risk of being masked or obscured in someway.

Off: The zone behaves as normal.

Zone Attributes 3 (Key Switch) ①⑤

When a zone is programmed as a Key Switch type Zone Attributes 3 options 3, 4 and 6 are used to change the operation of the Key Switch zone. The function of each attribute is described as follows:

③ Key Switch is Instant Arming

On: The key switch zone will arm the selected partitions immediately (no exit delay).

Off: The key switch zone will start exit timer for the selected partitions.

④ Key Switch will Stay Arm/Disarm

On: The key switch zone will Stay arm/disarm the selected partitions.

Off: The key switch zone will Away arm/disarm the selected partitions.

⑥ Disable Auto Arm

On: When a key switch zone with this attribute is active, it will disable the auto-arm feature for the partitions assigned to the zone. When the zone returns to the secure state the auto-arm feature is re-enabled.

Off: Keyswitch zones behave as normal.

Zone Partitions & Groups ①⑥

Partitions allow the system to be divided into areas of protection so that different partitions can be armed and disarmed independently from each other. By default all zones are assigned to Partition 1, but if required a zone can be assigned to Partitions 1 - 4. If a zone is assigned to more than one partition it will only be armed when all partitions they are assigned to are armed.

The system has four Bypass Groups, these can be configured so that the user can select a predefined group of zones for bypassing.

The function of each attribute is described as follows:

① Partition 1

On: The zone is assigned to Partition 1.

Off: The zone is not assigned to Partition 1.

② Partition 2

On: The zone is assigned to Partition 2.

Off: The zone is not assigned to Partition 2.

③ Partition 3 (*Premier 816/832* Only)

On: The zone is assigned to Partition 3.

Off: The zone is not assigned to Partition 3.

④ Partition 4 (*Premier 816/832* Only)

On: The zone is assigned to Partition 4.

Off: The zone is not assigned to Partition 4.

⑤ Group 1 Bypass

On: The zone is assigned to Group 1 Bypass.

Off: The zone is not assigned to Group 1 Bypass.

⑥ Group 2 Bypass

On: The zone is assigned to Group 2 Bypass.

Off: The zone is not assigned to Group 2 Bypass.

⑦ Group 3 Bypass

On: The zone is assigned to Group 3 Bypass.

Off: The zone is not assigned to Group 3 Bypass.

⑧ Group 4 Bypass

On: The zone is assigned to Group 4 Bypass.

Off: The zone is not assigned to Group 4 Bypass.

NOTE Zones must be assigned to at least one partition, if a zone is not assigned to a partition it will not respond to any alarm activation.

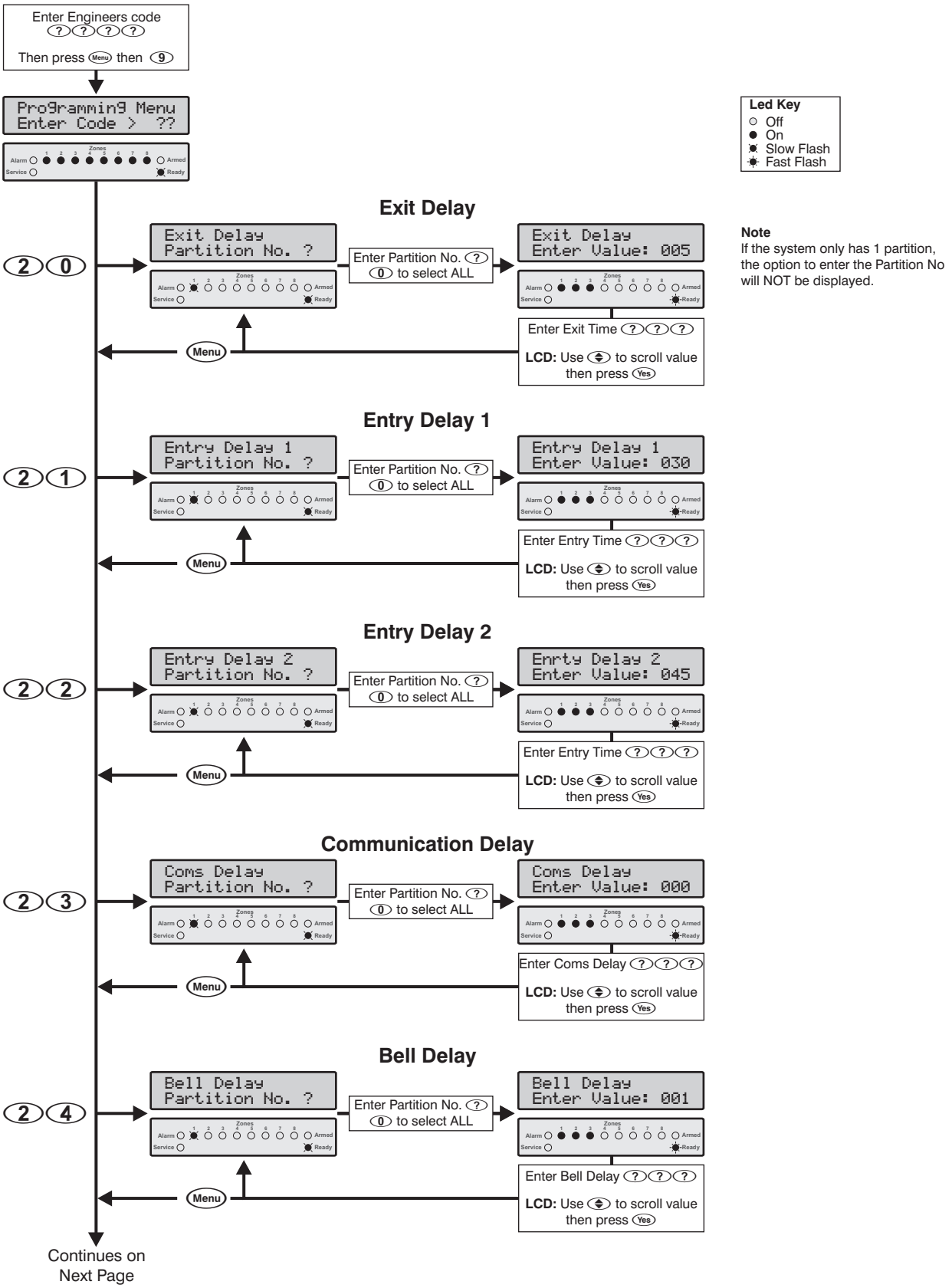
Zone Text (LCD Only) ①⑦

If the system is fitted with LCD remote keypad you can assign up to 16 characters of text to each zone. Text is programmed in a similar way to mobile phones. Characters are selected by pressing the corresponding key the appropriate number of times (to select a character on the same key, press ◈ to move the cursor along). For details on entering text, see page 22.

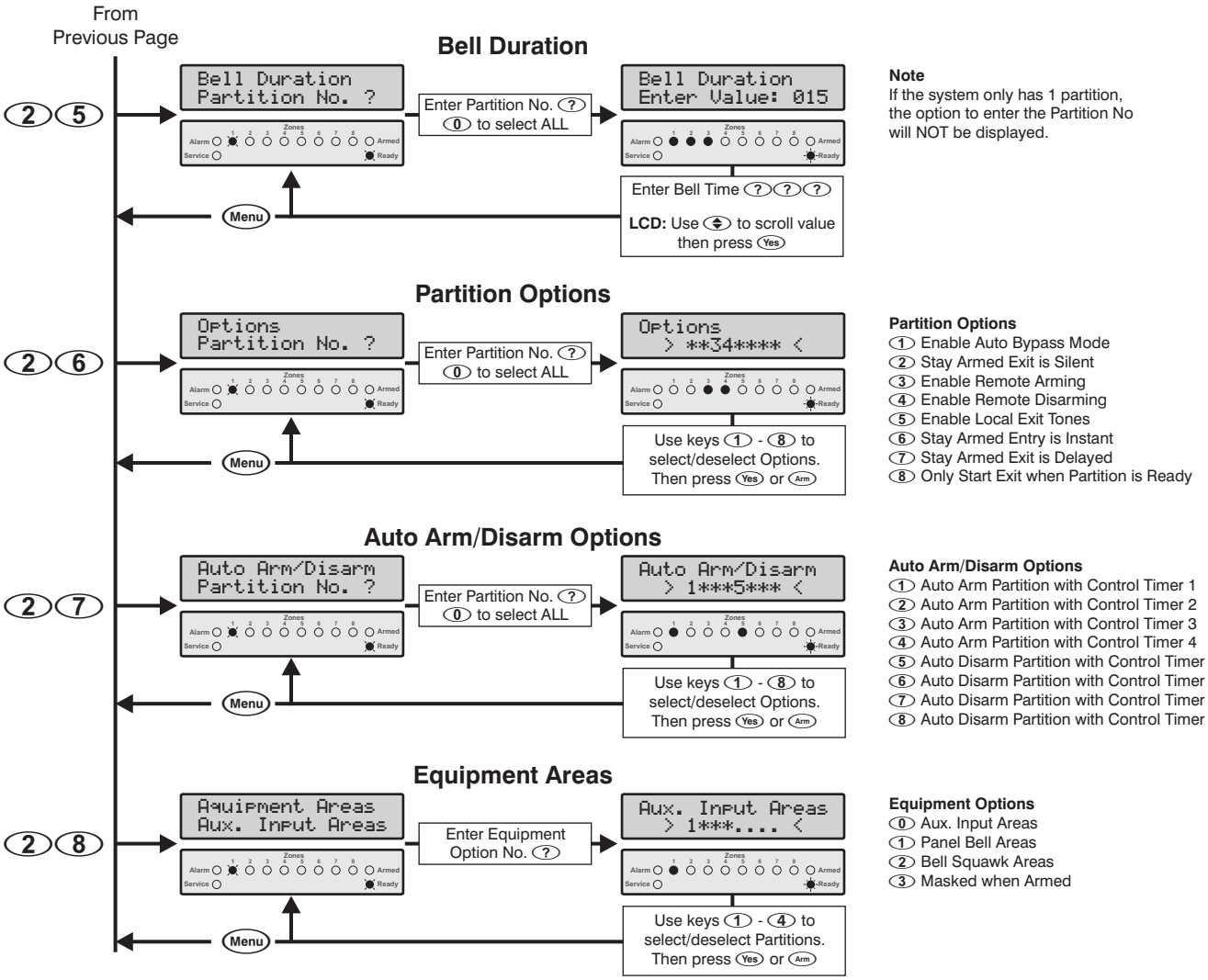
Assign Radio Device ①⑧

If the system is fitted with either a *RadioPlus* or *Inovonics* radio module this menu option is enabled. This menu is used to assign radio devices such as PIRs and Door Contacts to a zone on the system. Radio devices can be assigned to any of the available zones on the system.

Programming Partitions



Note
If the system only has 1 partition, the option to enter the Partition No will NOT be displayed.



Note
If the system only has 1 partition, the option to enter the Partition No will NOT be displayed.

Partition Options
1 Enable Auto Bypass Mode
2 Stay Armed Exit is Silent
3 Enable Remote Arming
4 Enable Remote Disarming
5 Enable Local Exit Tones
6 Stay Armed Entry is Instant
7 Stay Armed Exit is Delayed
8 Only Start Exit when Partition is Ready

Auto Arm/Disarm Options
1 Auto Arm Partition with Control Timer 1
2 Auto Arm Partition with Control Timer 2
3 Auto Arm Partition with Control Timer 3
4 Auto Arm Partition with Control Timer 4
5 Auto Disarm Partition with Control Timer 1
6 Auto Disarm Partition with Control Timer 2
7 Auto Disarm Partition with Control Timer 3
8 Auto Disarm Partition with Control Timer 4

Equipment Options
0 Aux. Input Areas
1 Panel Bell Areas
2 Bell Squawk Areas
3 Masked when Armed

Partition Exit Delay (20)
This timer controls the delay between the user initiating the exit procedure for the selected partition and the partition actually arming. If a 'Push to Set" zone is used for arming the partition, this timer must be set to 255 seconds.

Partition Entry Delay 1 (21)
If the user enters the premises via a 'Delay 1' zone, the system uses this timer to allow the user time to access the keypad and disarm the selected partition.

Partition Entry Delay 2 (22)
If the user enters the premises via a 'Delay 2' zone, the system uses this timer to allow the user time to access the keypad and disarm the selected partition.

Partition Communication Delay (23)
This timer controls the delay between an alarm occurring in the selected partition and the panel reporting the alarm event to the alarm receiving centre.

Partition Bell Delay (24)
This timer controls the delay between an alarm occurring in the selected partition and the bell output activating.

Partition Bell Duration (25)
This timer controls the duration of the bell output after an alarm has occurred in the selected partition.

Partition Options (26)
The function of the partition options is described as follows:

(1) Enable Auto Bypass Mode
On: The system will automatically Stay arm the selected partition if the user arms the system using the ARM button, but does not violate the entry/exit zone.
Off: The system will away arm the selected partition even if the entry/exit zone is not violated.

(2) Stay Armed Exit is Silent
On: The selected partition will not generate an exit tone when being Stay armed.
Off: The selected partition will generate exit tone.

③ **Enable Remote Arming**
On: The selected partition can be armed remotely via download software.
Off: The selected partition cannot be armed remotely.

④ **Enable Remote Disarming**
On: The selected partition can be disarmed remotely via the downloading computer.
Off: The selected partition cannot be disarmed remotely.

⑤ **Enable Local Exit Tones**
On: When arming the selected partition only the keypad that is being used will generate an exit tone.
Off: When arming the selected partition all keypads will generate an exit tone.

⑥ **Stay Armed Entry is Instant**
On: When the selected partition is Stay armed the entry/exit zone changes to instant.
Off: When the selected partition is stay armed the entry/exit zone is delayed.

⑦ **Stay Armed Exit is Delayed**
On: The selected partition will provide an exit delay when being Stay armed.
Off: The selected partition will arm instantly when being Stay armed.

⑧ **Only Start Exit when Partition is Ready**
On: When a user attempts to arm their partition, the system will only allow the exit mode to start if the partition is Ready (all zones secure).
Off: The system will allow the exit mode to start even if one or more zones are violated. If one or more zones are violated, the keypad will indicate the active zone(s) and generate a fault tone. The active zones must be secured before the exit time expires or the partition will not arm.

Partition Auto Arm/Disarm Options ②⑦

The system has four independent Control Timers that may be configured to switch on and off at different points of the day and days of the week (see page 35). One or more of these Control Timers can be used to automatically Arm or Disarm a selected partition:

① **Auto Arm Partition with Control Timer 1**
On: The selected partition is armed automatically when Control Timer 1 is switched ON.
Off: The selected partition is not armed automatically.

② **Auto Arm Partition with Control Timer 2**
On: The selected partition is armed automatically when Control Timer 2 is switched ON.
Off: The selected partition is not armed automatically.

③ **Auto Arm Partition with Control Timer 3**
On: The selected partition is armed automatically when Control Timer 3 is switched ON.
Off: The selected partition is not armed automatically.

④ **Auto Arm Partition with Control Timer 4**
On: The selected partition is armed automatically when Control Timer 4 is switched ON.
Off: The selected partition is not armed automatically.

NOTE When the control timer switches on, the panel will start a 2 minute exit timer. During the first 90 seconds of the exit timer the panel will generate a warning tone every 10 seconds. After which the panel will revert to a standard exit tone for the remaining 30 seconds.

⑤ **Auto Disarm Partition with Control Timer 1**
On: The selected partition is disarmed automatically when Control Timer 1 is switched OFF.
Off: The selected partition is not disarmed automatically.

⑥ **Auto Disarm Partition with Control Timer 2**
On: The selected partition is disarmed automatically when Control Timer 2 is switched OFF.
Off: The selected partition is not disarmed automatically.

⑦ **Auto Disarm Partition with Control Timer 3**
On: The selected partition is disarmed automatically when Control Timer 3 is switched OFF.
Off: The selected partition is not disarmed automatically.

⑧ **Auto Disarm Partition with Control Timer 4**
On: The selected partition is disarmed automatically when Control Timer 4 is switched OFF.
Off: The selected partition is not disarmed automatically.

Equipment Areas ②⑧

This option allows you to assign the following to partitions:

⓪ **Auxiliary Input Areas**
This option allows the Auxiliary input to be assigned to one or more partitions. This will effect how the Auxiliary input now functions, e.g. if the Auxiliary input is programmed as a "Latched Keyswitch" (see page 36) and is assigned to partition 3 and 4, the system will arm partitions 3 and 4 when the Auxiliary input is activated etc.

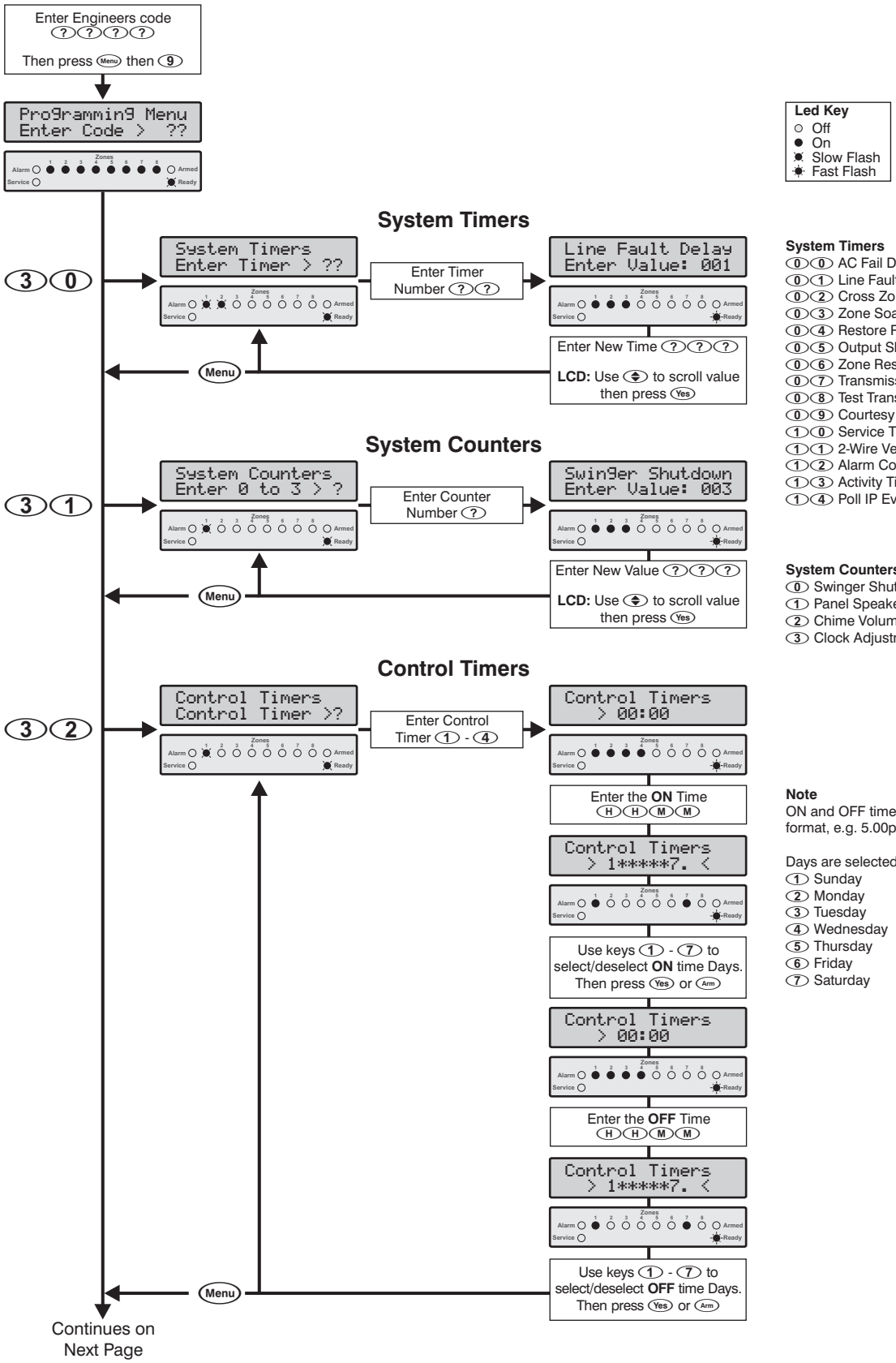
① **Panel Bell Areas**
This option allows the panel Bell output to be assigned to one or more partitions. This will effect how the Bell output operates, e.g. if the Bell output is assigned to partition 1 and 2, the panel Bell will only activate when an alarm occurs in either partition 1 or 2.

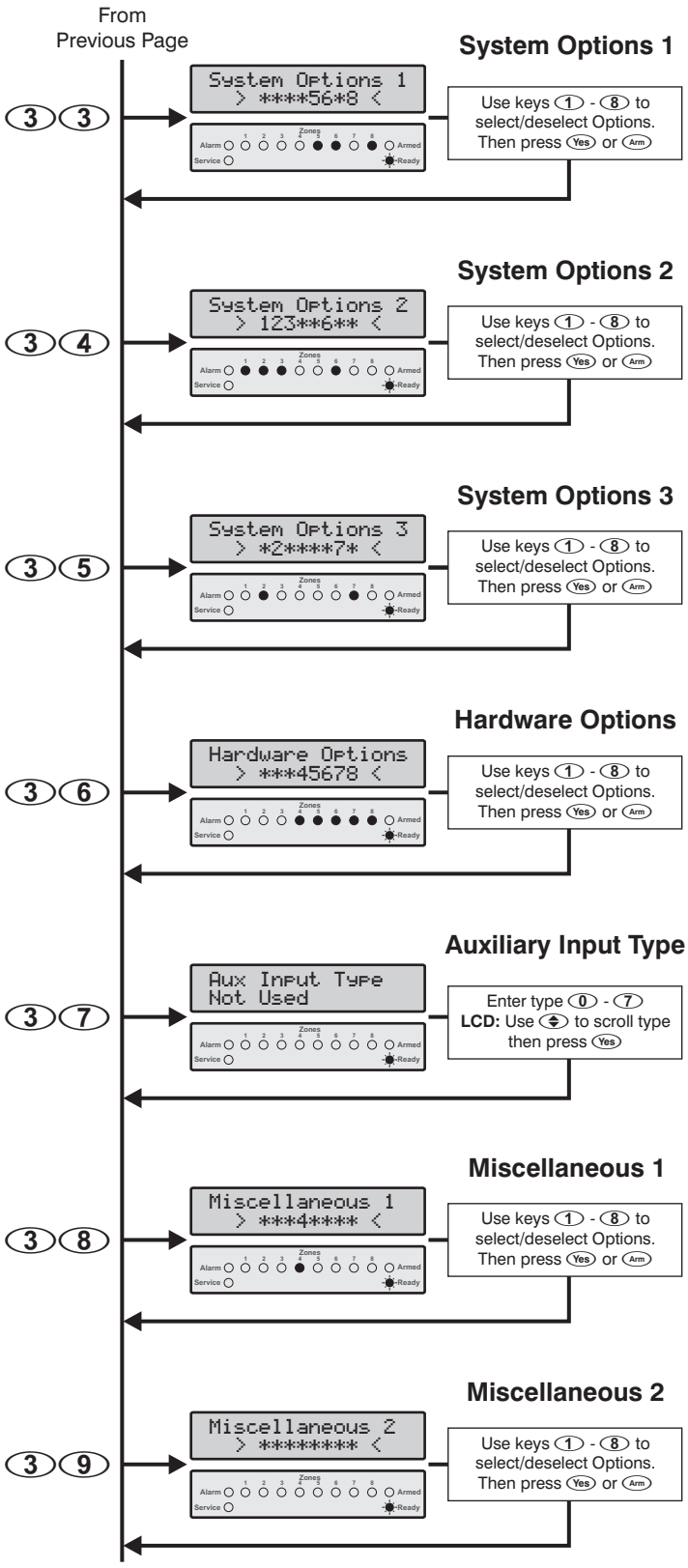
② **Bell Squawk Areas**
This option allows the Bell Squawk feature to be assigned to one or more partitions. This will effect how the Bell Squawk feature operates, e.g. if the Bell Squawk feature is assigned to partition 1 and 2, the panel Bell output and any outputs programmed as Bell will squawk when either partition 1 or 2 is armed/disarmed.

NOTE The Bell Squawk feature must also be enabled, see page 37.

③ **Masked when Armed**
When a partition is assigned to this option, the system will generate a full alarm if an Anti-Masking detector in the selected partition reports a "Masking" condition whilst the selected partition is armed. If the partition is unassigned, the system will only generate a "Zone Trouble alarm". The detector must be wired to the system using Triple EOL wiring configuration, as shown on page 16.

Programming Global Options





System Options 1
1. System Clock = Crystal
2. Battery Connection Supervision
3. Battery Dynamically Load Tested
4. Panel NVM is Locked
5. Power Savings During AC Mains Failure
6. Line Fault Overrides Bell Delay
7. Two-Wire Smoke Detection on O/P 1
8. Convert Siren Output from Voltage to Speaker

System Options 2
1. Tamper Alarms Cause a Trouble While Disarmed
2. Tamper Alarms Cause a Trouble While Stay Armed
3. Defer Reporting of Non-Zone Restorals
4. Use Delay Timer to Defer Non-Zone Restorals
5. Inhibit Keyswitch Operation Upon EOL Tamper
6. Away Arm Overrides Alarm Transmission Delay
7. Defer Reporting of Zone Restorals
8. Use Delay Timer to Defer Zone Restorals

System Options 3
1. Away Arm Exit Error Doesn't Sound Bell
2. Zone Test - Silence on No Violation
3. Alarm Status Light Indicates Fire
4. Enable Entry/Exit Tones for Panel Speaker
5. Enable Cross Partitioning
6. Enable EN 50131-1 Requirements
7. Reinstate Bypassed Zones on Disarm
8. Invert Panel Siren Output

Hardware Options
1. Panel Output 1 Supervised for Faults
2. Panel Output 2 Supervised for Faults
3. Siren/Bell Output Supervised for Faults
4. Panel Box Tamper Switch Monitored
5. Auxiliary Fuse Supervised for Faults
6. Battery Supervised for Faults
7. AC Mains Supply is Monitored
8. Telephone Line Is Monitored

Auxiliary Input Types
0. Not Used
1. Auxiliary Tamper
2. Remote Reset
3. Telephone Line Monitor
4. Panic Alarm
5. Silent PA
6. Latched Keyswitch
7. Momentary Keyswitch

Miscellaneous 1
1. Enable Bell Squawk on AWAY Arm/Disarm
2. Enable Bell Squawk on STAY Arm/Disarm
3. Disable AC Fail Acknowledgement
4. Disable Open/Close Reporting on STAY Arm
5. Cross/Double Knock Timer is in Minutes
6. Disable Zone Bypass when Armed
7. Activated Zones Cause Alarm during Exit
8. Control Timer 4 Performs Battery Test

Miscellaneous 2
1. Disable Service Fault Acknowledgement
2. Enable User Reset for Alarms
3. Disable Online Printing
4. Enable Bell Module & UK Options
5. Enable DD 243:2002 Options
6. Enable Confirmation after Entry Time-out
7. Invert Auxiliary Input Operation
8. Auto BST/GMT Time Change

System Timers (30)

These timers control the system timing and delay functions. The function of each timer is described as follows:

(00) AC Fail Delay
This timer delays the audible indication following a mains (AC) failure.

(01) Telephone Line Fault Delay
This timer delays the audible indication following a telephone line fault.

(02) Cross Zone Time Window
If one or more zones have been programmed with 'Enabled Cross Zoning', the system will only generate a verified cross zone alarm if the zones are violated within this time window.

(03) Zone Soak Test Time
This timer controls the number of days a zone is put on soak test. If a zone is violated during the soak test period it will not cause an alarm, however, the event will be logged and the zone that failed test will be indicated when the user disarms the system. The Zone Soak Test is started when one or more zones are programmed with 'Enable Soak Test' attribute, see page 27. All zones that are on test are removed from test at the end of the soak test period, providing no failures have occurred.

(04) Restore Reporting Delay
This timer controls the delay between a system event restoring and the system reporting the restore condition to the Alarm Receiving Centre.

(05) Output Short Pulse Time
If output is programmed with the 'Use Short Pulse Time' attribute the output will activate for the duration of this timer, 001 to 255 x 100mS.

(06) Zone Loop Response Time
If a zone is programmed with the 'Quick Response Time' attribute the zone loop response will be controlled by the duration of this timer, 001 to 255 x 8mS.

(07) Transmission Abort Delay
This timer controls the duration in which an alarm transmission may be aborted following alarm activation. When an alarm occurs, the 'Alarm Cancel' condition is only reported if the system is disarmed within this period. If the system is disarmed after this period the 'Alarm Cancel' is NOT reported.

(08) Test Transmission Interval
This timer controls the interval of test transmissions to the alarm receiving centre. 000 = Control Timer 3; 024 = daily; 168 = weekly etc.

(09) Courtesy Delay
This timer controls the duration of courtesy output. The courtesy output is activated whenever a keypad is used and when the system is in entry mode.

(10) Service Timer
This timer controls the period in which a Service Required fault condition will occur. If the timer is set to 000 this feature is disabled.

(11) Verified 2-Wire Smoke Delay
When the timer is set to zero 2-wire smoke detectors are unverified, i.e., as soon as a detector activates, the panel will go into a fire alarm condition. When the timer is set above zero, 2-wire smoke detectors are verified as follows: On the first activation the panel will start this timer then remove power to the 2-wire smoke detector for a short period, then reapply the power (to reset the detector). If the detector activates again before this timer expires, the panel will generate a verified fire alarm condition.

(12) Alarm Confirmation Delay
When an Intruder alarm occurs, this timer starts. If a second (different) zone is activated within this time window, the "Confirmed Alarm" output will activate. If a second (different) zone is activated after this time window, the "Confirmed Alarm" output will not activate.

(13) Activity Time Window
If a zone has the "Forced Walk Test" attribute and it is not activated during this time window, it will be indicated as an active zone when they try to arm the system. Once the timer expires it is restarted and all "Forced Walk Test" zones are displayed as active on the keypad.

(14) Poll IP Every
This timer controls how often the *ComIP* module (if fitted) polls the ARC software with a "Polling" message.

System Counter/Levels (31)

The function of each Counter/Level is described as follows:

(0) Swinger Shutdown Count
This counter controls the number of times a zone can re-arm following an alarm activation. Once a zone has reached this limit it will not cause any further alarms. In order to use the Swinger Shutdown Counter the zone must be programmed with the 'Enable Swinger Shutdown' attribute, see page 27. The Swinger Count is also applied to alarms caused by the Auxiliary input.

(1) Panel Speaker Volume
This counter/level controls the advisory tones (entry/exit, fault etc.) volume level of the speakers connected to the siren output. 0 = minimum volume; 7 = maximum volume.

(2) Chime Volume
This counter/level controls the chime volume level of the speakers connected to the siren output. 0 = disabled; 1 = minimum volume; 7 = maximum volume.

(3) Clock Adjustment
This counter can be used to automatically adjust the real time clock either forward or backwards up to 49 seconds per day. When this counter is set to 50 (default value) no clock adjustment will be made. If the counter is set to value less than 50 the clock will be slowed down, e.g., a value of 48 will slow the clock down by 2 seconds per day. If the counter is set to value greater than 50 the clock will be speeded up, e.g., a value of 52 will speed the clock up by 2 seconds per day.

System Control Timers (3)(2)

The system has 4 independent Control Timers that may be configured to switch on and off at different points of the day and days of the week. Once configured these timers can be used to automatically arm/disarm partitions or lock-out users from operating the system. Control Timer 3 can be used to send an automatic test call to the alarm receiving centre, see "Test Transmission Interval" on page 34. Control Timer 4 can be used to perform a dynamic battery test, see "Control Timers 4 Performs Battery Test" on page 37.

System Options 1 (3)(3)

The function of each option is described as follows:

(1) Clock = Crystal
On: The system clock is calculated using the onboard crystal.
Off: The system clock is calculated by using the incoming mains supply at a frequency of 50Hz.

(2) Battery Connection Supervision
On: The system will check that the stand-by battery is connected (every 30 seconds).
Off: The system will not check the standby battery.

(3) Battery Dynamically Load Tested
On: The standby battery is tested when any partition is disarmed or every 12 hours from the last battery test.
Off: The system will not perform the dynamic battery test.

(4) Panel NVM is Locked
On: The NVM is locked and the "Load Defaults" jumper pins on the main PCB are disabled, thus preventing the factory defaults from being loaded.
Off: The "Load Defaults" jumper pins on the main PCB are enabled, thus allowing the panel to be defaulted.

(5) Power Savings during AC Mains Failure
On: The back-lighting for all remote keypads is switched off during a mains failure.
Off: The back-lighting is enabled during a mains failure.

(6) Line Fault Overrides Bell Delay
On: The system will override the bell delay in the event of a telephone line fault.
Off: The system will enforce the bell delay.

(7) Two-Wire Smoke Detection on O/P 1
On: Panel Output 1 is enabled for 2-wire smoke detectors (JP1 on the main PCB must also be removed, see page 7).
Off: Panel Output is a normal programmable output.

(8) Convert Siren O/P from Voltage to Speaker Driver
On: The Siren output terminals on the main PCB are configured for a speaker driver.
Off: The Siren output terminals on the main PCB are configured for Voltage output to power a bell or siren.

System Options 2 (3)(4)

The function of each option is described as follows:

(1) Tamper Alarms Cause a Trouble While Disarmed
On: Tamper alarms cause a trouble condition while the system is disarmed.
Off: Tamper alarms cause an alarm while the system is disarmed.

(2) Tamper Alarms Cause a Trouble While Stay Armed
On: Tamper alarms cause a trouble condition while the system is Stay armed.
Off: Tamper alarms cause an alarm while the system is Stay armed.

(3) Defer Reporting of Non-Zone Restorals
On: The communicator reporting of non-zone restorals will be deferred until the Restore Reporting Delay timer expires or until the system is disarmed (see 4 below).
Off: Non-zone restorals will report immediately as they occur.

(4) Use Delay Timer to Defer Non-Zone Restorals
On: If System Option 2.3 (see above) is enabled, then enabling this option will defer the non-zone restoral reporting until the Restore Reporting Delay Timer has elapsed.
Off: Non-zone restorals are deferred until the system is disarmed.

(5) Inhibit Keyswitch Operation upon EOL Tamper
On: Tampering of a keyswitch zone will inhibit the keyswitch operation.
Off: Tampering will not inhibit the keyswitch operation.

(6) Away Arm Overrides Alarm Transmission Delay
On: The 'Alarm Transmission Delay' timer is overridden when the system/partition is away armed.
Off: The 'Alarm Transmission Delay' timer is not overridden.

(7) Defer Reporting of Zone Restorals
On: The communicator reporting of zone restorals will be deferred until the Restore Reporting Delay Timer expires or until the system is disarmed (see 8 below).
Off: Zone restorals will report immediately as they occur.

(8) Use Delay Timer to Defer Zone Restorals
On: If System Option 2.7 (see above) is enabled, then enabling this option will defer the zone restoral reporting until the Restore Reporting Delay Timer has elapsed.
Off: Zone restorals are deferred until the system is disarmed.

System Options 3 (3)(5)

The function of each option is described as follows:

(1) Away Arm Exit Error Doesn't Sound Bell
On: The bells will not sound if an exit error occurs when the system is away armed.
Off: The system will sound the bell if an exit error occurs when the system is away armed.

② Zone Test - Silence on No Violation

On: The Zone Test sounder is silent when all zones are secure and will pulse sound when one or more zones are violated.

Off: The Zone Test sounder is on continuously when all zones are secure and will pulse sound when one or more zones are violated.

③ Alarm Status Light Indicates Fire

On: The alarm status light will only indicate Fire alarms. Fire alarms activated from zones will illuminate the relevant zone light and the alarm light. Fire alarms activated from a 2-wire smoke detector will only illuminate the alarm light. All other zone alarms will illuminate the relevant zone light only.

Off: The alarm status light indicates both alarms and fire alarms.

④ Enable Entry/Exit Tones for Panel Speaker

On: The panel speaker will produce entry/exit tones.

Off: The panel speaker only produces alarm and trouble tones.

⑤ Enable Cross Partitioning

On: The user may temporarily switch to another partition by pressing the Area key, and the relevant partition number. Once the remote keypad has been selected for another partition, the indicator lights will only display information relevant for the selected partition. The remote keypad will revert back to its normal partition 15 seconds after the last key press or 1 minute after the last entry of a User code.

Off: All remote keypads are locked to their programmed partition number and the user cannot switch to another partition.

⑥ Enable EN 50131-1 Requirements

On: The Engineer code will only be accepted if the user has authorised Remote/Engineer Access (see page 67). If an alarm occurs during entry (timed-out entry alarm) the system will generate an internal alarm for 30 seconds before activating the bell and communicator. Wireless detectors must have polled in within 20 minutes when attempting to arm the system. Mag 2 input on the *RadioPlus* magnetic contact is a tamper input.

Off: The Engineer code is accepted at all times and the timed-out entry alarms respond as normal. Wireless detectors do not need to poll in within 20 minutes when attempting to arm the system. Mag 2 input on the *RadioPlus* magnetic contact is an alarm input.

⑦ Reinstate Bypassed Zones on Disarm

On: Any zones that have been manually bypassed are automatically reinstated when the partition is disarmed.

Off: Any zones that have been manually bypassed will remain bypassed when the partition is disarmed.

⑧ Invert Panel Siren Output

On: When the panel siren output is configured for voltage drive (see System Options 1.8 on page 35) the output is inverted, i.e. Bells off = voltage applied, Bells on = voltage removed.

Off: The siren output is normal.

Hardware Options ③⑥

The hardware options allow you to control which hardware monitoring features are enabled or disabled. The function of each option is described as follows:

① Panel Output 1 Supervised for Faults

On: Panel Output 1 is supervised and if the device or wiring is disconnected, the system will generate an “Output 1 Fault” alarm.

Off: Panel Output 1 is not supervised.

② Panel Output 2 Supervised for Faults

On: Panel Output 2 is supervised and if the device or wiring is disconnected, the system will generate an “Output 2 Fault” alarm.

Off: Panel Output 2 is not supervised.

③ Siren/Bell Output Supervised for Faults

On: The Siren/Bell Output is supervised and if the device or wiring is disconnected, the system will generate a “Siren/bell Fault” alarm.

Off: The Siren/Bell Output is not supervised.

④ Panel Box Tamper Switch Monitored

On: The system will monitor the main panel box tamper switch.

Off: The main panel box tamper switch is not monitored.

⑤ Auxiliary Fuse Supervised for Faults

On: The Auxiliary 12V Power fuse is supervised, and if the fuse is blown, the system will generate an “Aux Fuse Fault” alarm.

Off: The Auxiliary 12V Power fuse is not supervised.

⑥ Battery Supervised for Faults

On: The Battery is supervised, and if the battery is disconnected or faulted, the system will generate a “Battery Fault” alarm.

Off: The Battery is not supervised.

⑦ AC Mains Supply is Monitored

On: The AC mains supply voltage is monitored, and if the supply is removed, the system will generate a “AC Fail” alarm.

Off: The AC mains supply voltage is not monitored.

⑧ Telephone Line is Monitored

On: The telephone line to the control panel is monitored, and if the telephone line is disconnected, the system will generate a “Line Fault” alarm.

Off: The telephone line is not monitored.

Auxiliary Input Options ③⑦

The Auxiliary Input on the main panel PCB can be used for a wide range of functions, the operation of the input can also be inverted to allow various wiring options (see page 38). The following Auxiliary Input functions are available:

⓪ Not Used

The Auxiliary Input is not monitored.

① Auxiliary Tamper
When activated the panel will generate a tamper alarm for the assigned partitions (see page 31).

② Remote Reset
When activated the system will reset any alarms/faults for the assigned partitions (see page 31).

③ Telephone Line Monitor
When activated the system will generate a Telephone Line fault for all partitions.

④ Panic Alarm Input
When activated the system will generate an Audible Panic alarm for the assigned partitions (see page 31).

⑤ PA Silent Input
When activated the system will generate a Silent Panic alarm for the assigned partitions (see page 31).

⑥ Latched Keyswitch Input
When the input is active the system will arm the assigned partitions (see page 31). When the input is inactive the system will disarm the assigned partitions.

⑦ Momentary Keyswitch Input
When the input is activated the system will arm the assigned partitions (see page 31). When the input is activated again the system will disarm the assigned partitions.

NOTE Both the "Latched" and "Momentary" Keyswitch input types are ideally suited for use with remote RF fobs as they have a special auto re-arm feature. When either input type is used to disarm one or more partitions, the control panel will monitor all zones activity for 2 minutes. If after two minutes no zones were activated within the partition that was disarmed, the panel automatically re-arms the partition. This means even if the user activates the fob unintentionally and disarms the system without realising it; the panel will automatically arm its self after 2 minutes.

Miscellaneous Options 1 ③⑧

The function of each option is described as follows:

① Enable Bell Squawk on AWAY Arm/Disarm
On: When the system is Away armed, the panel bell/siren output is pulsed once. On disarming the output is pulsed twice. The panel bell/siren output must be configured for voltage drive (see System Options 1.8 on page 35).
Off: The panel bell/siren output behaves normally on Away arm.

② Enable Bell Squawk on STAY Arm/Disarm
On: When the system is Stay armed, the panel bell/siren output is pulsed once. On disarming the output is pulsed twice. The panel bell/siren output must be configured for voltage drive (see System Options 1.8 on page 35).
Off: The panel bell/siren output behaves normally on Stay arm.

③ Disable AC Fail Acknowledgement
On: When the mains supply power fails the Service light will flash rapidly indicating an AC failure. The system can now be armed without the need for acknowledging the "AC Fail" fault.
Off: When the mains supply power fails the Service light will flash normally indicating the "AC Fail" Fault. The fault must be acknowledged before the system can be armed.

④ Disable Open/Close Reporting on STAY Arm
On: Open and Close events are not reported to the Alarm Receiving Centre when Stay arming the system/partition.
Off: Open and Close events are reported when Stay arming the system/partition.

⑤ Cross/Double Knock Timer is in Minutes
On: System timer 02 "Cross Zone Time Window" is counted in minutes.
Off: System timer 02 "Cross Zone Time Window" is counted in seconds.

⑥ Disable Zone Bypass when Armed
On: The user cannot bypass zones in an armed partition. Only zones that are unarmed can be selected for bypass.
Off: The user can bypass zones in an armed partition.

⑦ Activated Zones Cause Alarm during Exit
On: If a non "delay" or "follower" zone is activated during exit mode the panel will generate a full alarm condition.
Off: If a non "delay" or "follower" zone is activated during exit mode the panel will generate a fault condition.

⑧ Control Timer 4 Performs Battery Test
On: Control Timer 4 is used to perform the dynamic battery test, i.e. when the timer switches on the panel will allow the stand-by battery to power the system for 1 minute.
Off: Control Timer 4 behaves as normal.

Miscellaneous Options 2 ③⑨

The function of each option is described as follows:

① Disable Service Fault Acknowledgement
On: When a Service Fault occurs the system can be armed without the need to acknowledge the fault condition.
Off: All Service Faults require acknowledgment before the system can be armed.

② Enable User Reset for Alarms
On: Any user can reset alarms and troubles.
Off: Alarms and troubles can only be reset by users with the "Allow Alarm/Fault Acknowledgement" attribute (see User Options 3 on page 65).

③ Disable Online Printing
On: The online printer port (Com1) will not send real time event data.
Off: The online printer port (Com1) will send real time event data.

④ Enable Bell Module and UK Options

On: When the system is fitted with a *Premier Bell Module* this option must be enabled (this module is only used in the UK). Also the following UK options are enabled:

- All alarm zones and tampers are disabled whilst in engineers programming mode
- After entering the engineers passcode, the Strobe output on the *Premier Bell Module* pulses 3 times, this invokes the Engineer Hold Off mode if a Texecom *Odyssey* bell box is connected

Off: The *Premier Bell Module* and UK options are disabled.

⑤ Enable DD 243:2002 Options

On: The Confirmation output is disabled once the Entry Timer is started, i.e. during the Entry Time, activation of a second (different) zone will NOT activate the Confirmation output.

Off: The Confirmation output operates as normal.

NOTE To comply with DD 243:2002 this option must be enabled if access to the protected premises initiates the entry timer.

Owing to the ability to disable ALL of the confirmation facilities, the customer should be advised in writing by the alarm company that ALL means of alarm confirmation are disabled when the initial entry door is opened. The alarm company should then obtain written acceptance from the customer of the disabling of the means of alarm confirmation.

⑥ Enable Confirmation After Entry Time-Out

On: If option 5 (above) is enabled the Confirmation output is ONLY disabled for the duration of the Entry Time and re-enabled once the Entry Timer has expired, i.e. after the Entry Timer has expired, further activation of two different zones WILL activate the Confirmation output.

Off: If option 5 (above) is enabled the Confirmation output remains disabled once the Entry Timer is started.

NOTE To comply with DD 243:2004 this option can only be enabled if the system is unset by a single action device such as a Swipe Card, Radio FOB, Infra-Red FOB, Proximity Card etc.

⑦ Invert Auxiliary Input Operation

On: The operation of the auxiliary input is inverted and operates as shown in the table below:

Inverted	
Function	**Operation**
Aux Tamper	Normally Open
Remote Reset	Remove 0V to reset
Phone Line Monitor	Remove 0V for Line Fault
Audible PA	Normally Open
Silent PA	Normally Open
Latched Keyswitch	Apply 0V to Arm
Momentary Keyswitch	0V to Removed to change

Off: The operation of the auxiliary input is inverted and operates as shown in the table below:

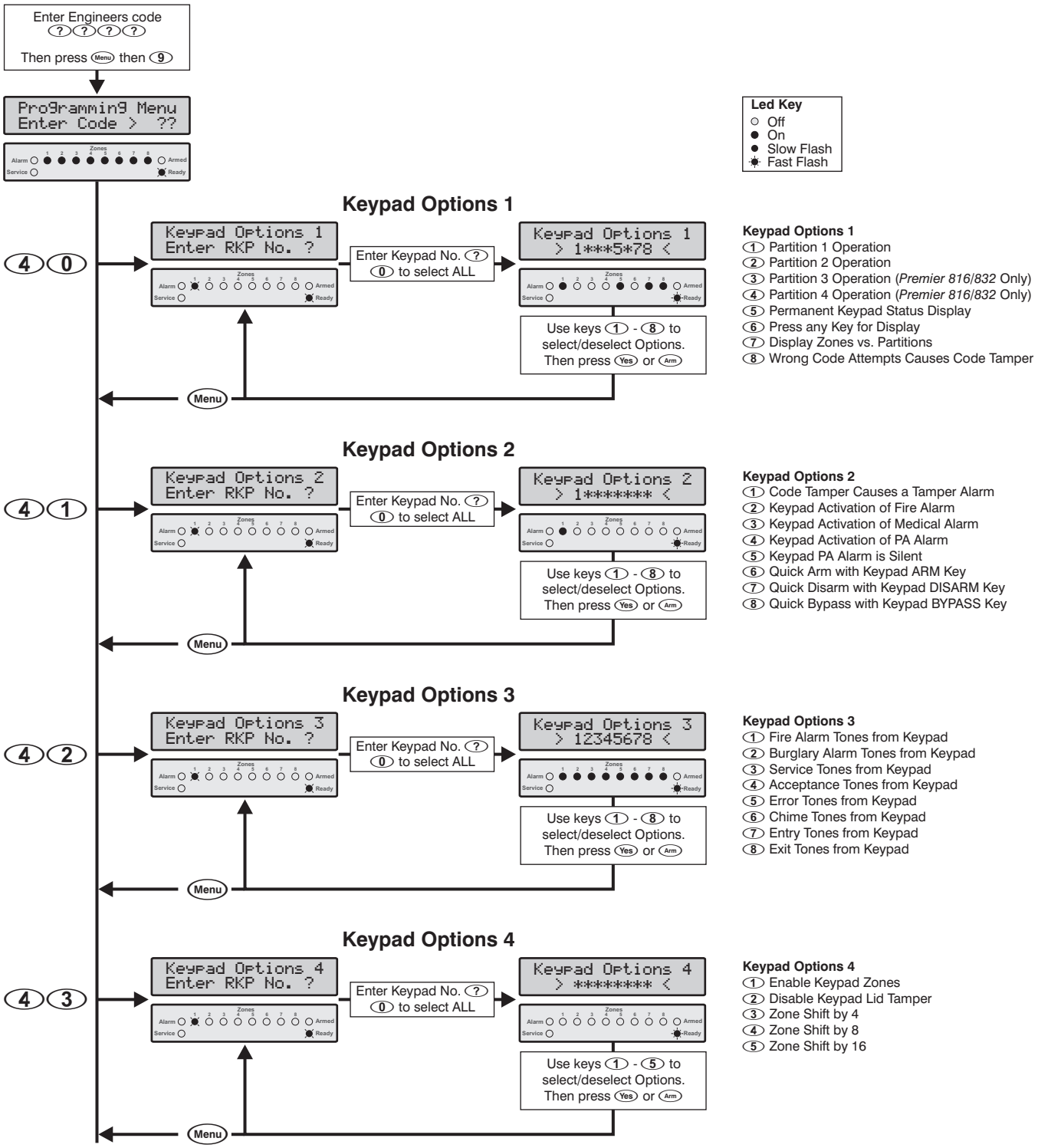
Normal	
Function	**Operation**
Aux Tamper	Normally Closed
Remote Reset	Apply 0V to reset
Phone Line Monitor	Apply 0V for Line Fault
Audible PA	Normally Closed
Silent PA	Normally Closed
Latched Keyswitch	Apply 0V to Disarm
Momentary Keyswitch	Removed to 0V to change

⑧ Auto BST/GMT Time Change

On: The clock is automatically put forward by one hour on the last Sunday in March at 2.00AM and put back by one hour on last Sunday in October at 2:00AM.

Off: The clock is not adjusted automatically.

Programming Remote Keypads



Keypad Options 1 (4)(0)

The operation of Keypad Options 1 is described as follows:

(1) Partition 1 Operation
On: The selected keypad is assigned to Partition 1.
Off: The selected keypad is not assigned to Partition 1.

(2) Partition 2 Operation
On: The selected keypad is assigned to Partition 2.
Off: The selected keypad is not assigned to Partition 2.

(3) Partition 3 Operation (*Premier 816/832* Only)
On: The selected keypad is assigned to Partition 3.
Off: The selected keypad is not assigned to Partition 3.

(4) Partition 4 Operation (*Premier 816/832* Only)
On: The selected keypad is assigned to Partition 4.
Off: The selected keypad is not assigned to Partition 4.

(5) Permanent Keypad Status Display
On: The keypad status will be displayed permanently.
Off: Keypad status (not just zone status) will blank after the courtesy timer has expired.

(6) Press Any Key for Display
On: If Keypad Option 1.5 (above) is selected as disabled, the selected keypad will re-enable the display after any key press.
Off: The selected keypad display will only re-enable after a valid Access code has been entered.

(7) Display Zones vs. Partitions
On: The selected keypad will use its zone lights to indicate zone status details.
Off: The selected keypad will use its zone lights to indicate armed status of partitions.

(8) Wrong Code Attempts Cause Code Tamper
On: The selected keypad will lockout key presses for 5 minutes and will generate a code tamper alarm after 3 incorrect code attempts (12 key presses).
Off: The keypad will accept any amount of incorrect code attempt entries.

Keypad Options 2 (4)(1)

The operation of Keypad Options 2 is described as follows:

(1) Code Tamper Causes a Tamper Alarm
On: If a code tamper is generated by the selected keypad, the system will give a tamper alarm response.
Off: If a code tamper is generated by the selected keypad, the system will lock out the keypad for 5 minutes.

NOTE Keypad Options 1.8 must also be enabled.

(2) Keypad Activation of Fire Alarm
On: The selected keypad will generate an emergency Fire alarm if keys (1) and (3) are pressed at the same time.
Off: The selected keypad will not generate an emergency Fire alarm.

(3) Keypad Activation of Medical Alarm
On: The selected keypad will generate an emergency Medical alarm if keys (7) and (9) are pressed at the same time.
Off: The selected keypad will not generate an emergency Medical alarm.

(4) Keypad Activation of PA Alarm
On: The selected keypad will generate a Panic Alarm (Police) if keys (4) and (6) are pressed at the same time.
Off: The selected keypad will not generate an emergency Panic Alarm.

(5) Keypad PA Alarm is Silent
On: The selected keypad will generate a silent Panic Alarm (Police) if keys (4) and (6) are pressed at the same time.
Off: The selected keypad will generate an audible Panic Alarm (Police) if keys (4) and (6) are pressed at the same time.

NOTE Keypad Options 2.4 must also be enabled.

(6) Quick Arm with Keypad ARM Key
On: The selected keypad can be used to quick arm the system (Access code not required).
Off: An Access code must be entered before the selected keypad can be used to arm the system.

(7) Quick Disarm with Keypad DISARM Key
On: The selected keypad can be used to quick disarm the system (Access code not required).
Off: An Access code must be entered before the selected keypad can be used to disarm the system.

(8) Quick Bypass with Keypad BYPASS Key
On: The selected keypad can be used to quick bypass zones (Access code not required).
Off: An Access code must be entered before the selected keypad can be used to bypass zones.

Keypad Options 3 (4)(2)

The operation of Keypad Options 3 is described as follows:

(1) Fire Alarm Tones from Keypad
On: The internal sounder for the selected keypad will produce Fire Alarm tones.
Off: Fire Alarm tones will not be produced.

(2) Burglary Alarm Tones from Keypad
On: The internal sounder for the selected keypad will produce Burglary Alarm tones.
Off: Burglary Alarm tones will not be produced.

(3) Service Tones from Keypad
On: The internal sounder for the selected keypad will produce Service tones.
Off: Service tones will not be produced.

(4) Acceptance Tones from Keypad
On: The internal sounder for the selected keypad will produce Acceptance tones.
Off: Acceptance tones will not be produced.

⑤ Error Tones from Keypad
On: The internal sounder for the selected keypad will produce Error tones.
Off: Error tones will not be produced.

⑥ Chime Tones from Keypad
On: The internal sounder for the selected keypad will produce Chime tones.
Off: Chime tones will not be produced.

⑦ Exit Tones from Keypad
On: The internal sounder for the selected keypad will produce Exit tones.
Off: Exit tones will not be produced.

⑧ Entry Tones from Keypad
On: The internal sounder for the selected keypad will produce Entry tones.
Off: Entry tones will not be produced.

Keypad Options 4 ④③

The operation of Keypad Options 4 is described as follows:

① Enable Keypad Zones
On: The zones onboard the selected remote keypad are enabled and allocated as follows:

Keypad	*Premier 412*	*Premier 816/832*
1	Zones 05 & 06	Zones 09 & 10
2	Zones 07 & 08	Zones 11 & 12
3	Zones 09 & 10	Zones 13 & 14
4	Zones 11 & 12	Zones 15 & 16
5	N/A	N/A
6	N/A	N/A

Off: The zones onboard the selected remote keypad are disabled:

NOTE This option is only relevant if the keypad type is a *Premier RKP8/16 Plus* or *Premier* LCD.

If the system is fitted with either a local or remote expander, the relevant zones on the expander will be disabled if the zones on the remote keypad are enabled.

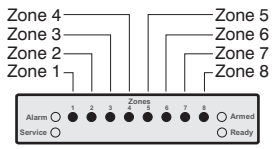
② Disable Keypad Lid Tamper
On: The remote keypad lid tamper is not monitored.
Off: The remote keypad lid tamper is monitored.

③ Zone Shift by 4
On: The remote keypad zone status lights indicate from Zone 5 onwards i.e., Zone 1 on the remote keypad follows the status of Zone 5 and Zone 2 on the remote keypad follows the status of Zone 6 etc.
Off: The remote keypad zone status lights indicate as normal.

④ Zone Shift by 8
On: The remote keypad zone status lights indicate from Zone 9 onwards i.e., Zone 1 on the remote keypad follows the status of Zone 9 and Zone 2 on the remote keypad follows the status of Zone 10 etc.
Off: The remote keypad zone status lights indicate as normal.

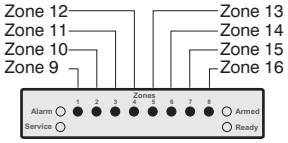
⑤ Zone Shift by 16
On: The remote keypad zone status lights indicate from Zone 17 onwards i.e., Zone 1 on the remote keypad follows the status of Zone 17 and Zone 2 on the remote keypad follows the status of Zone 18 etc.
Off: The remote keypad zone status lights indicate as normal.

NOTE Options 3, 4 and 5 allow the *Premier RKP4* remote keypad to be used on a multi-partition system with more than 4 zones and the *Premier RKP8* remote keypad to be used on a multi-partition system with more than 8 zones. The example below shows how a 16 zone system split into 2 partitions could use two *Premier RKP 8* remote keypads:



Remote Keypad 1 (Partition 1)

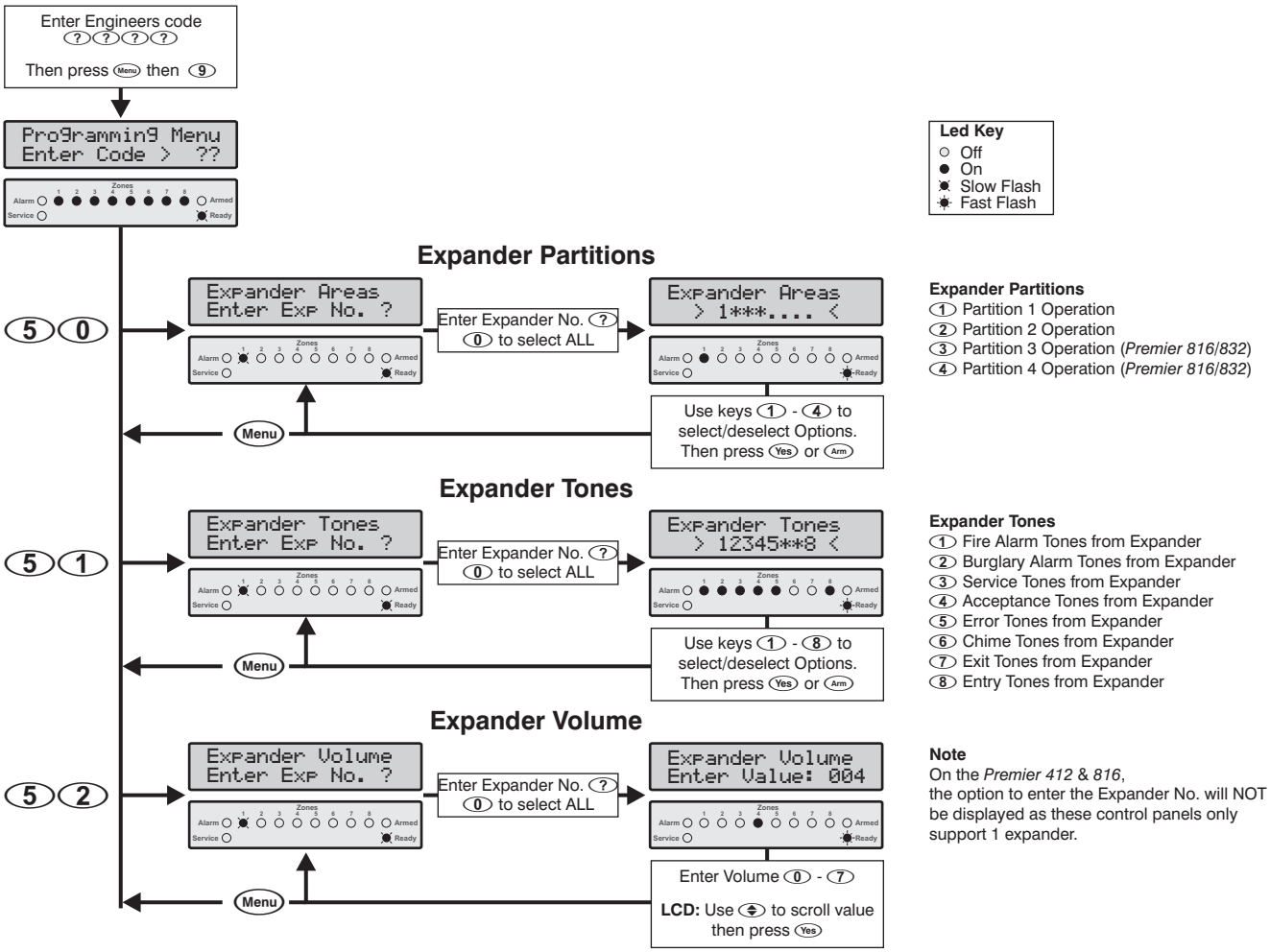
Keypad Options 4:
③ Zone Shift by 4 (Disabled)
④ Zone Shift by 8 (Disabled)
⑤ Zone Shift by 16 (Disabled)



Remote Keypad 2 (Partition 2)

Keypad Options 4:
③ Zone Shift by 4 (Disabled)
④ Zone Shift by 8 (Enabled)
⑤ Zone Shift by 16 (Enabled)

Programming Remote Expanders



Expander Partitions (50)

When the expander is assigned to one or more partitions the speaker output on the expander will generate tones only for the partition(s) it's assigned to. E.g. if the expander is assigned to partition 3, the speaker will only be enabled when partition 3 is in alarm, entry, exit etc.

Expander Tones (51)

The Expander Tones are described as follows:

(1) **Fire Alarm Tones from Expander**
On: The siren output on the Expander will produce Fire Alarm tones.
Off: Fire Alarm tones will not be produced.

(2) **Burglary Alarm Tones from Expander**
On: The siren output on the Expander will produce Burglary Alarm tones.
Off: Burglary Alarm tones will not be produced.

(3) **Service Tones from Expander**
On: The siren output on the Expander will produce Service tones.
Off: Service tones will not be produced.

(4) **Acceptance Tones from Expander**
On: The siren output on the Expander will produce Acceptance tones.
Off: Acceptance tones will not be produced.

(5) **Error Tones from Expander**
On: The siren output on the Expander will produce Error tones.
Off: Error tones will not be produced.

(6) **Chime Tones from Expander**
On: The siren output on the Expander will produce Chime tones.
Off: Chime tones will not be produced.

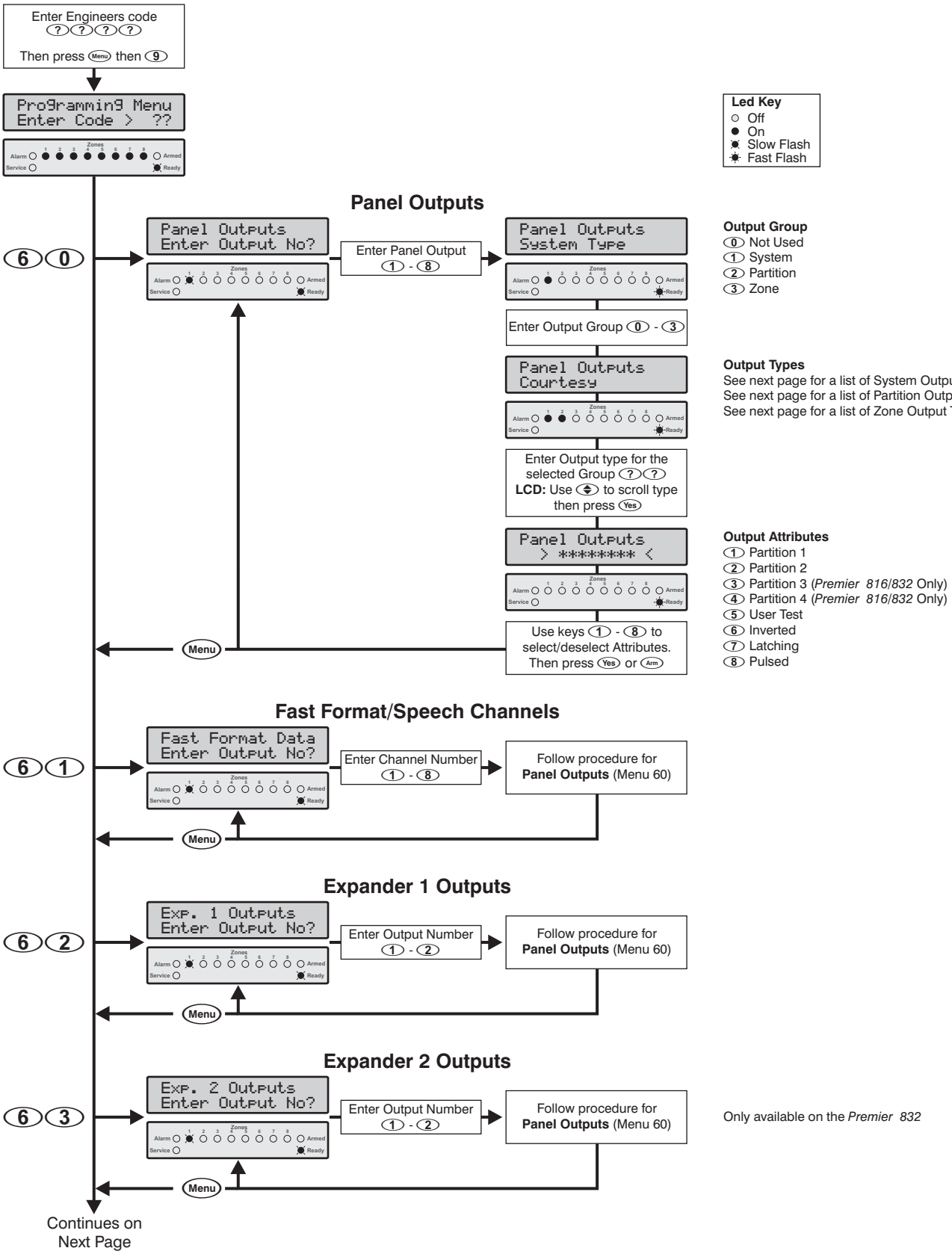
(7) **Exit Tones from Expander**
On: The siren output on the Expander will produce Exit tones.
Off: Exit tones will not be produced.

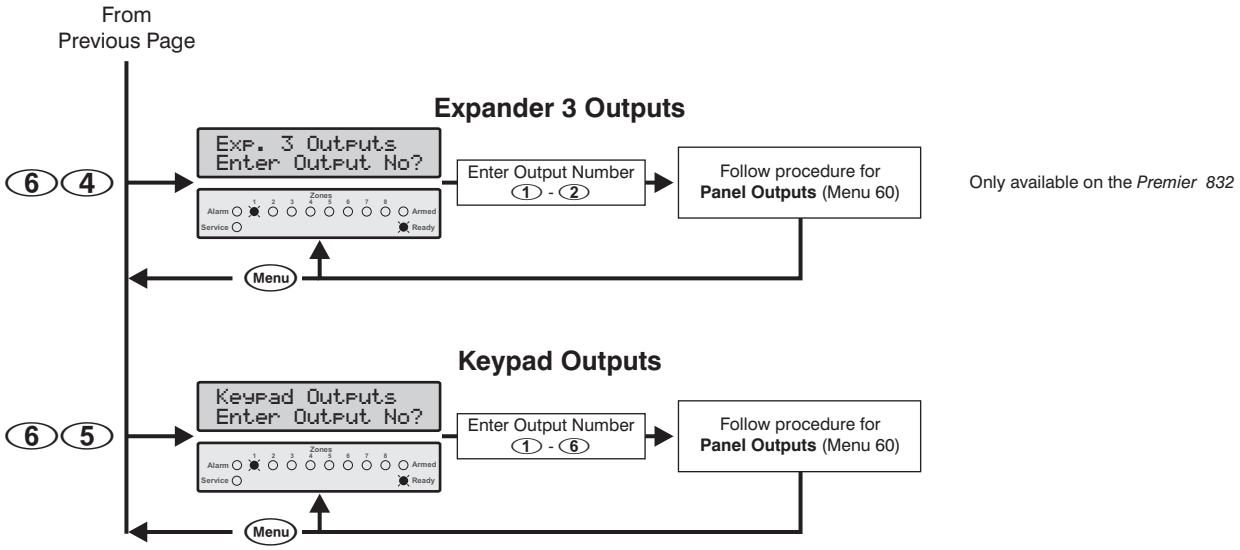
(8) **Entry Tones from Expander**
On: The siren output on the Expander will produce Entry tones.
Off: Entry tones will not be produced.

Expander Volume Level (52)

This option controls the advisory tones (entry/exit, fault etc.) volume level of the speakers connected to the remote expander speaker output. 0 = minimum volume; 7 = maximum volume.

Programming System Outputs





① System Output Types

⓪⓪ Courtesy
⓪① Successful Transmission
⓪② Log 80% Full
⓪③ Program Mode Selected
⓪④ Download In Progress
⓪⑤ Timed Arming Countdown
⓪⑥ Zone Soak Test Active
⓪⑦ Zone Soak Test Failed
⓪⑧ AC Fail
⓪⑨ Telephone Line Fault
①⓪ Smoke Alarm
①① Box/Auxiliary Tamper
①② Date Time Loss
①③ Zone Service/Tamper
①④ Keypad Tamper/Removed
①⑤ System Service
①⑥ Output 1 Fault
①⑦ Output 2 Fault
①⑧ Speaker Fault
①⑨ Smoke Sensor Fault
②⓪ Auxiliary Fuse Fault
②① Battery Fault
②② Service Required/Test Fail
②③ Fail To Communicate
②④ Control Timer 1 Active
②⑤ Control Timer 2 Active
②⑥ Control Timer 3 Active
②⑦ Control Timer 4 Active
②⑧ PC Output 1
②⑨ PC Output 2
③⓪ Walk Test
③① Confirmed Alarm
③② ARC2 Active
③③ Zones Locked-Out

② Partition Output Types

⓪⓪ PA Alarm
⓪① Duress Alarm
⓪② Burglar Alarm
⓪③ Medical Alarm
⓪④ 24Hr - Water Alarm
⓪⑤ 24Hr - Gas Alarm
⓪⑥ 24Hr - Low Temp Alarm
⓪⑦ 24Hr - High Temp Alarm
⓪⑧ Tamper
⓪⑨ Service
①⓪ Fire
①① Fire Fault
①② Bell
①③ Strobe
①④ Entry
①⑤ Exit
①⑥ Armed
①⑦ Stay Armed
①⑧ Ready
①⑨ Bypass
②⓪ Sensor Reset on Exit
②① Sensor Reset on Reset
②② Single Pulse on Arming
②③ Double Pulse on Arming
②④ Chime
②⑤ Door Strike
②⑥ Cross Zone Time Active
②⑦ Single Pulse on Disarming
②⑧ Reset Required
②⑨ Acknowledgement Required
③⓪ Confirmed Alarm
③① Alarm Abort
③② Away Armed
③③ Away Armed/Exit
③④ Detector Latch
③⑤ Armed/Alarm
③⑥ Arm Failed

③ Zone Output Types

⓪① Zone 01 Mimic
⓪② Zone 02 Mimic
⓪③ Zone 03 Mimic
⓪④ Zone 04 Mimic
⓪⑤ Zone 05 Mimic
⓪⑥ Zone 06 Mimic
⓪⑦ Zone 07 Mimic
⓪⑧ Zone 08 Mimic
⓪⑨ Zone 09 Mimic
①⓪ Zone 10 Mimic
①① Zone 11 Mimic
①② Zone 12 Mimic
①③ Zone 13 Mimic
①④ Zone 14 Mimic
①⑤ Zone 15 Mimic
①⑥ Zone 16 Mimic
①⑦ Zone 17 Mimic
①⑧ Zone 18 Mimic
①⑨ Zone 19 Mimic
②⓪ Zone 20 Mimic
②① Zone 21 Mimic
②② Zone 22 Mimic
②③ Zone 23 Mimic
②④ Zone 24 Mimic
②⑤ Zone 25 Mimic
②⑥ Zone 26 Mimic
②⑦ Zone 27 Mimic
②⑧ Zone 28 Mimic
②⑨ Zone 29 Mimic
③⓪ Zone 30 Mimic
③① Zone 31 Mimic
③② Zone 32 Mimic

③③ Zone 01 Alarm
③④ Zone 02 Alarm
③⑤ Zone 03 Alarm
③⑥ Zone 04 Alarm
③⑦ Zone 05 Alarm
③⑧ Zone 06 Alarm
③⑨ Zone 07 Alarm
④⓪ Zone 08 Alarm
④① Zone 09 Alarm
④② Zone 10 Alarm
④③ Zone 11 Alarm
④④ Zone 12 Alarm
④⑤ Zone 13 Alarm
④⑥ Zone 14 Alarm
④⑦ Zone 15 Alarm
④⑧ Zone 16 Alarm
④⑨ Zone 17 Alarm
⑤⓪ Zone 18 Alarm
⑤① Zone 19 Alarm
⑤② Zone 20 Alarm
⑤③ Zone 21 Alarm
⑤④ Zone 22 Alarm
⑤⑤ Zone 23 Alarm
⑤⑥ Zone 24 Alarm
⑤⑦ Zone 25 Alarm
⑤⑧ Zone 26 Alarm
⑤⑨ Zone 27 Alarm
⑥⓪ Zone 28 Alarm
⑥① Zone 29 Alarm
⑥② Zone 30 Alarm
⑥③ Zone 31 Alarm
⑥④ Zone 32 Alarm

Panel Outputs (60)
This menu option allows you to program the eight control panel outputs.

Fast Format/Speech Channels (61)
When using the Fast Format communication protocol (see page 52) the channels that are reported to the Alarm Receiving Centre must be programmed for the relevant conditions. This menu option allows you to program the eight channels that are used by the Fast Format protocol.

Expander 1 Outputs (62)
The *Premier 8X* remote expander has two programmable outputs. This menu option allows you to program the outputs of expander 1.

Expander 2 Outputs (63)
The *Premier 8X* remote expander has two programmable outputs. This menu option allows you to program the outputs of expander 2 (*Premier 832* Only).

Expander 3 Outputs (64)
The *Premier 8X* remote expander has two programmable outputs. This menu option allows you to program the outputs of expander 3 (*Premier 832* Only).

Keypad Outputs (65)
Both the *Premier LCD* and *LCDL* remote keypads have a programmable output. This menu option allows you to program the keypad outputs.

Output Groups and Types

Group (0) - Not Used
This group contains no output types, by assigning an output to this group the output will never activate.

Group (1) - System Output Types
This group contains the system output types as listed below:

(00) Courtesy
This output type activates after any keypad has been used and during entry delay. The output will remain active for the duration of the Courtesy timer (see page 34).

(01) Successful Transmission
This output type activates after the communicator has successfully reported to the alarm receiving centre.

(02) Log 80% Full
This output type activates when the Event Log is 80% full. The output is cleared when the event log is uploaded by the remote downloading computer.

(03) Program Mode Selected
This output type activates when the program mode is selected.

(04) Download in Progress
This output type activates when a Download is in progress.

(05) Timed Arming Countdown
This output type activates when the system initiates a timed arm.

(06) Zone Soak Test Active
This output type activates when any zone is enabled for soak test.

(07) Zone Soak Test Failed
This output type activates if any zone fails during a zone soak test.

(08) AC Fail
This output type activates when the mains supply is disconnected.

(09) Telephone Line Fault
This output type activates when the communicator detects a telephone line fault.

(10) Smoke Alarm
This output type activates when a 2-wire smoke detector connected to Panel Output 1 causes an alarm.

(11) Box/Auxiliary Tamper Alarm
This output type activates when the box tamper or the Auxiliary Input (Tamper) on the main panel causes an alarm.

(12) Date/Time Loss
This output type activates when the control panel real time clock is reset (power up). The output clears when the clock is set.

(13) Zone Trouble/Tamper
This output type activates when any zone is in trouble or tamper.

(14) Keypad Tamper/Removed
This output type activates when a keypad is either disconnected or its box tamper causes an alarm.

(15) Service Fault
This output type activates when there are any Service Faults on the system (mimics the Service light on the remote keypad).

(16) Output 1 Fault
This output type activates when Panel Output 1 detects a fault.

(17) Output 2 Fault
This output type activates when Panel Output 2 detects a fault.

(18) Siren/Bell Fault
This output type activates when Siren Output detects a fault.

(19) Smoke Sensor Fault
This output type activates when a 2-wire smoke detector connected to Panel Output 1 causes a fault.

(20) Auxiliary Fuse Fault
This output type activates when the Auxiliary fuse is ruptured.

(21) Battery Fault
This output type activates when the system detects a fault from the stand-by battery.

(2)(2) Service Required/Test Fail
This output type activates when a Service Required fault exists or the system has failed zone soak test.

(2)(3) Fail to Communicate
This output type activates after the communicator has failed to report to the alarm receiving centre.

(2)(4) Control Timer 1 Active
This output type activates when Control Timer 1 is active.

(2)(5) Control Timer 2 Active
This output type activates when Control Timer 2 is active.

(2)(6) Control Timer 3 Active
This output type activates when Control Timer 3 is active.

(2)(7) Control Timer 4 Active
This output type activates when Control Timer 4 is active.

(2)(8) PC Output 1
The remote Downloading computer controls this output type.

(2)(9) PC Output 2
The remote Downloading computer controls this output type.

(3)(0) Walk Test
This output type activates when the user selects the Zone Test option (menu 90).

(3)(1) Confirmed Alarm
This output type activates when two different zones are violated from any armed partition.

(3)(2) ARC 2 Active
This output type activates when the panel is communicating to ARC2.

(3)(3) Zone Locked-Out
This output type activates when the one or more zones are locked out after the confirmation timer has expired.

Group (2) - Partition Output Types

This group contains the partition output types as listed below:

(0)(0) PA Alarm
This output type activates when a PA alarm is generated in the selected Partition. If another PA alarm is generated the output will reset for 3 seconds then reactivate.

(0)(1) Duress Alarm
This output type activates when a Duress alarm is generated in the selected Partition. If another Duress alarm is generated the output will reset for 3 seconds then reactivate.

(0)(2) Burglar Alarm
This output type activates when a Burglar alarm is generated in the selected Partition. If another Burglar alarm is generated the output will reset for 3 seconds then reactivate.

(0)(3) Medical Alarm
This output type activates when a Medical alarm is generated in the selected Partition. If another Medical alarm is generated the output will reset for 3 seconds then reactivate.

(0)(4) 24Hr - Water Alarm
This output type activates when a 24hr Water alarm is generated in the selected Partition. If another 24hr Water alarm is generated the output will reset for 3 seconds then reactivate.

(0)(5) 24Hr - Gas Alarm
This output type activates when a 24hr Gas alarm is generated in the selected Partition. If another 24hr Gas alarm is generated the output will reset for 3 seconds then reactivate.

(0)(6) 24Hr - Low Temp Alarm
This output type activates when a 24hr Low Temperature alarm is generated in the selected Partition. If another 24hr Low Temperature alarm is generated the output will reset for 3 seconds then reactivate.

(0)(7) 24Hr - High Temp Alarm
This output type activates when a 24hr High Temperature alarm is generated in the selected Partition. If another 24hr High Temperature alarm is generated the output will reset for 3 seconds then reactivate.

(0)(8) Tamper
This output type activates when a Tamper alarm is generated in the selected Partition. If another Tamper alarm is generated the output will reset for 3 seconds then reactivate.

(0)(9) Trouble
This output type activates when a Trouble alarm is generated in the selected Partition. If another Trouble alarm is generated the output will reset for 3 seconds then reactivate.

(1)(0) Fire
This output type activates when a Fire alarm is generated in the selected Partition. If another Fire alarm is generated the output will reset for 3 seconds then reactivate.

(1)(1) Trouble/Tamper
This output type activates when a Trouble or Tamper alarm is generated in the selected Partition.

(1)(2) Bell
This output type activates when an alarm is generated in the selected Partition.

(1)(3) Strobe
This output type activates when an alarm is generated in the selected Partition.

(1)(4) Entry
This output type activates when the selected Partition is in entry mode.

(1)(5) Exit
This output type activates when the selected Partition is in exit mode.

(1)(6) Armed
This output type activates when the selected Partition is stay or away armed.

17 Stay Armed
This output type activates when the selected Partition is stay armed.

18 Ready
This output type activates when the selected Partition is ready for arming.

19 Bypass
This output type activates when the selected Partition has one or more zones bypassed.

20 Sensor Reset on Exit
This output type is normally active and deactivates for 2 seconds when the selected Partition is in exit mode.

21 Sensor Reset on Reset
This output type is normally active and deactivates for 2 seconds when the user resets the selected Partition.

22 Single Pulse on Arming
This output type activates for 2 seconds when the selected Partition is armed.

23 Double Pulse on Arming
This output type activates twice (2 seconds on) when the selected Partition is armed.

24 Chime
This output type activates for 2 seconds when a zone programmed as Chime is violated in the selected Partition.

25 Door Strike
This output type activates for 2 seconds when an Access code with the "Activate Door Strike Output" attribute is entered.

26 Cross Zone Time Active
This output type activates when a Cross Zone is violated and remains active for the duration of the Cross Zone Time Window.

27 Single Pulse on Disarming
This output type activates for 2 seconds when the selected Partition is disarmed.

28 Reset Required
This output type activates when an alarm condition requires resetting in the selected Partition.

29 Acknowledgement Required
This output type activates when a Service Fault requires acknowledgement.

30 Confirmed Alarm
This output type activates when two different zones are violated during an armed period.

31 Alarm Abort
This output type activates when the system is disarmed after an alarm condition (providing the system is disarmed before the "Alarm Transmission Abort" delay has expired, see page 34).

32 Away Armed
This output type activates when the partition is "Away Armed".

33 Away Armed/Exit
This output type activates when the partition is in exit mode (Away arming) and when the partition is "Away Armed".

34 Detector Latch
This output type is used to latch an alarm condition on detectors that have a latch input.

35 Armed/Alarm
This output type is used to indicate both the armed and alarm status of a partition, it operates as follows: on = armed; off = disarmed; pulsing = alarm.

36 Arm Failed
This output type activates when the selected partition fails to arm.

Group 3 Zone Output Types

This group contains the zone output types as listed below:

01 - 32 Zone 01 - 32 Mimic
This output type activates when Zone XX is violated and deactivates when the zone is secure.

33 - 64 Zone 01 - 32 Alarm
This output type activates when Zone XX causes an alarm and deactivates when the alarm is reset.

Output Attributes

Each output can have the following attributes assigned to alter the function of the selected output:

1 Enable for Partition 1
On: The selected output is assigned to Partition 1.
Off: The selected output is not assigned to Partition 1.

2 Enable for Partition 2
On: The selected output is assigned to Partition 2.
Off: The selected output is not assigned to Partition 2.

3 Enable for Partition 3 (*Premier 816/832* Only)
On: The selected output is assigned to Partition 3.
Off: The selected output is not assigned to Partition 3.

4 Enable for Partition 4 (*Premier 816/832* Only)
On: The selected output is assigned to Partition 4.
Off: The selected output is not assigned to Partition 4.

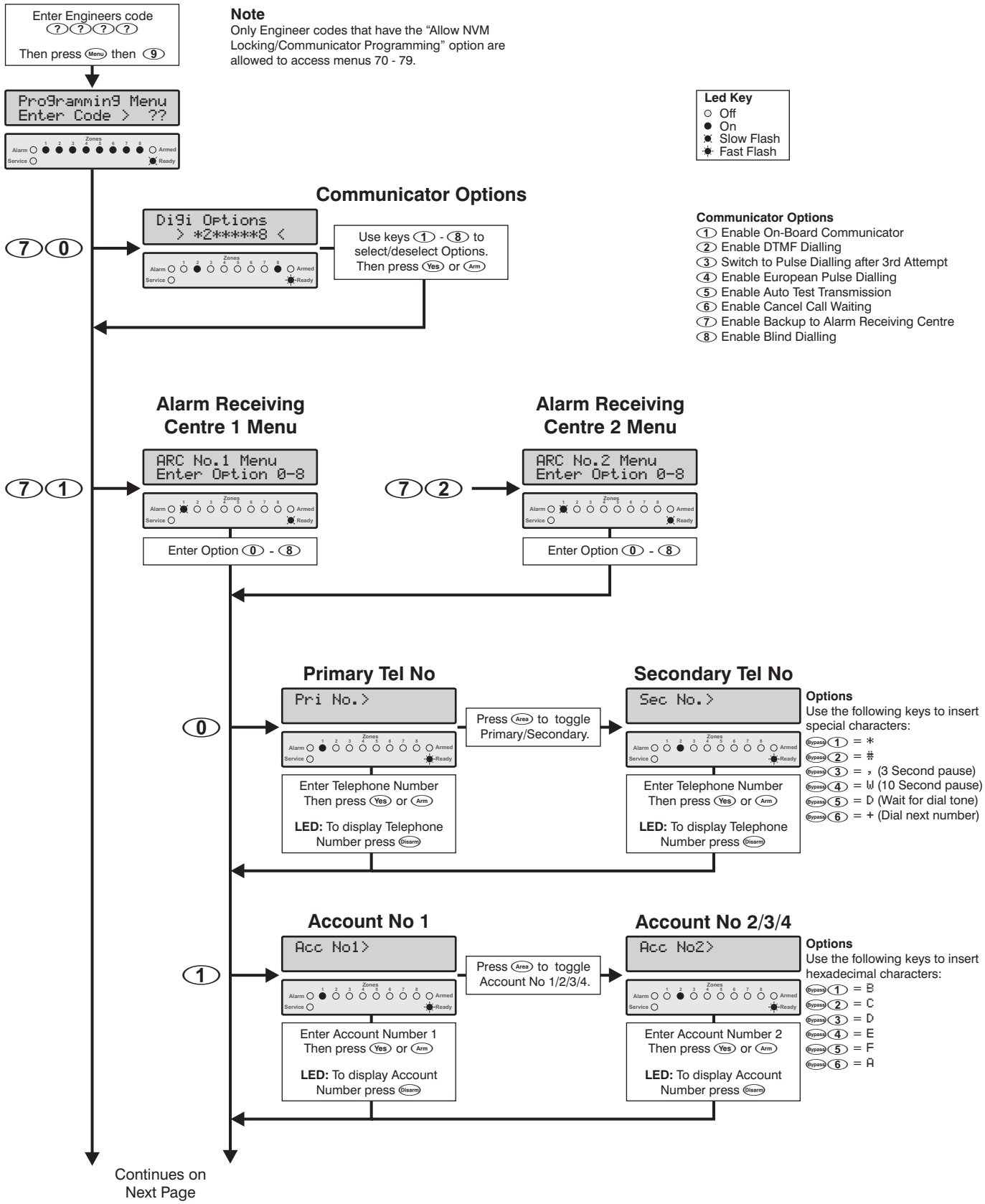
5 Enable for User Test
On: The selected output is activated during a user test.
Off: The selected output is not activated during a user test.

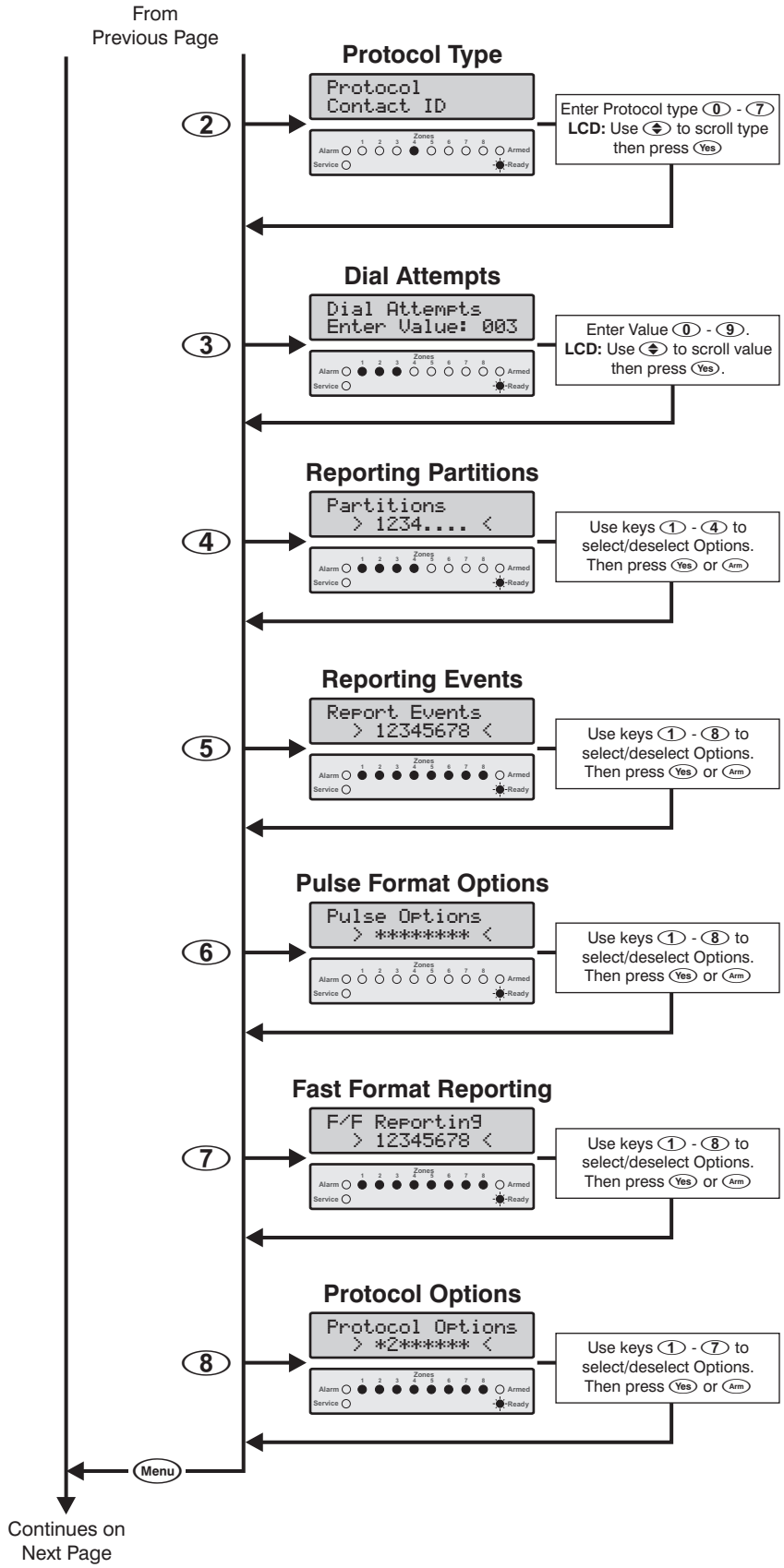
6 Inverted
On: The selected output is inverted.
Off: The selected output is normal.

7 Latching
On: The selected output will latch on until the system is reset.
Off: The selected output will not latch.

8 Pulsed
On: The selected output will pulse for the duration of the Output Short Pulse Timer (see page 34).
Off: The selected output will be normal.

Programming the Communicator





Protocol Types
0 Disabled
1 Pulse Format
2 Express Format
3 Fast Format/Speech Module
4 Contact ID
5 SIA Level 2/3
6 Pager Format
7 Mobile Phone

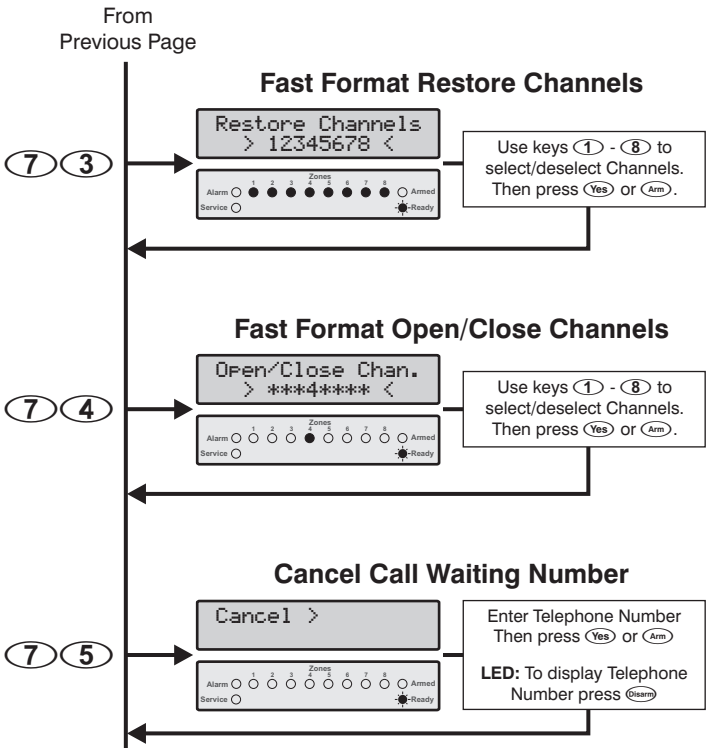
Note
Reporting Partitions are only used by the following protocol types:
Pulse Format
Express Format
Contact ID
SIA Level 2/3
Pager Format

Reporting Events
1 Report Priority Alarm and Cancel Events
2 Report Alarm and Cancel Events
3 Report Open and Close Events
4 Report Bypass and Unbypass Events
5 Report Maintenance Alarm Events
6 Report Tamper Alarm Events
7 Report Test Transmission Events
8 Report Restore Events

Pulse Format Options
1 Use 1900Hz Carrier
2 Use 40 PPS Baud Rate
3 Enable Parity
4 Use 2 Digit Events
5 Use 2300Hz Handshake
6 Use 2300Hz Kiss-Off
7 Use Fast/Slow Format

Fast Format Reporting
1 Report Channel 1
2 Report Channel 2
3 Report Channel 3
4 Report Channel 4
5 Report Channel 5
6 Report Channel 6
7 Report Channel 7
8 Report Channel 8

Protocol Options
1 Disable SIA Modifier/Enable Speech Module
2 Disable Separate Events for Each Partition
3 Pager Terminator = * (Star)
4 Send Pager Terminator Twice/SIA Text
5 Pager DTMF Tones = 500mS
6 Disable Zone Restorals
7 Coms. Acknowledgement Tone
8 Connect via IP



Fast Format Restore Channels
1 Report Restore on Channel 1
2 Report Restore on Channel 2
3 Report Restore on Channel 3
4 Report Restore on Channel 4
5 Report Restore on Channel 5
6 Report Restore on Channel 6
7 Report Restore on Channel 7
8 Report Restore on Channel 8

Fast Format Open/Close Channels
1 Report Open/Close on Channel 1
2 Report Open/Close on Channel 2
3 Report Open/Close on Channel 3
4 Report Open/Close on Channel 4
5 Report Open/Close on Channel 5
6 Report Open/Close on Channel 6
7 Report Open/Close on Channel 7
8 Report Open/Close on Channel 8

Communicator Options 7 0

The on-board digital communicator/modem has the following options:

1 Enable On-Board Communicator
On: The on-board digital communicator will report system events to the Alarm Receiving Centre.
Off: The communicator will not report system events.

2 Enable DTMF Dialling
On: The on-board digital communicator will dial using DTMF (Dual Tone Multiple Frequency) format.
Off: The communicator will dial using the older pulse format.

3 Switch to Pulse Dialling After 3rd Attempt
On: The communicator will switch to the pulse dialling format after failed 3rd attempt.
Off: The communicator will always dial using DTMF format.

NOTE Only applicable if Communicator Option 2 is enabled.

4 Enable European Pulse Dialling
On: The communicator will dial using the European pulse dialling timing ratios.
Off: The communicator will dial using US pulse dialling ratios.

NOTE Only applicable if Communicator Option 2 is disabled.

5 Enable Auto Test Transmission
On: The communicator will send a periodic test transmission to the Alarm Receiving Centre.
Off: The communicator will not send test transmissions.

6 Enable Cancel Call Waiting
On: The communicator will dial the Cancel Call Waiting sequence before dialling the monitoring station.
Off: The communicator will not dial the Cancel Call Waiting sequence.

7 Enable Backup to Alarm Receiving Centre
On: The communicator will always report to Alarm Receiving Centre 1, then make a backup report to Alarm Receiving Centre 2.
Off: The communicator will initially attempt to report to Alarm Receiving Centre 1. If for any reason the communicator fails after using all its attempts, the communicator will attempt to report to Alarm Receiving Centre 2.

8 Enable Blind Dialling
On: The communicator will NOT look for a dial tone before dialling the telephone number.
Off: The communicator will wait for the dial tone before attempting to dial out.

ARC 1 Communicator Menu 7 1

The ARC 1 Communicator Menu has the following options:

0 Primary and Secondary Telephone Numbers
1 Account Numbers
2 Protocol Type
3 Dial Attempts
4 Partition Options
5 Reporting Options
6 Pulse Format Options
7 Fast Format Reporting Channels
8 Protocol Options

Telephone Numbers (7)(1)-(0)

Alarm Receiving Centre 1 has a primary and secondary telephone number. The primary number is the number that is dialled first and if programmed the secondary telephone number is a backup number for the primary number. If both numbers are programmed the panel will alternate between them when dialling the alarm receiving centre. Each telephone number can be up to 24 digits. When entering the telephone number the following keys can be used:

Press (Bypass)(1) to insert a "*".
Press (Bypass)(2) to insert a "#".
Press (Bypass)(3) to insert a "," (3 second pause).
Press (Bypass)(4) to insert a "W" (10 second pause).
Press (Bypass)(5) to insert a "D" (Wait for dial tone).
Press (Bypass)(6) to insert a "+" (Force dials next number).

Account Numbers (7)(1)-(1)

Alarm Receiving Centre 1 has four account numbers. Account No 1 is for partition 1 and is also the global account number. Account numbers 2 - 4 are for partitions 2 - 4. To send events on separate account numbers, you must ensure the "Disable Separate Events for Each Partition" is turned off (see Protocol Options on page 54). The account number can be up to 6 digits. When entering the account number the following keys can be used to insert hexadecimal characters:

Press (Bypass)(1) to insert a "B".
Press (Bypass)(2) to insert a "C".
Press (Bypass)(3) to insert a "D".
Press (Bypass)(4) to insert a "E".
Press (Bypass)(5) to insert a "F".
Press (Bypass)(6) to insert a "A".

Protocol Type (7)(1)-(2)

This is the reporting protocol that is used to communicate with Alarm Receiving Centre 1. The following protocols are supported:

(0) Disabled
Communication disabled.

(1) Pulse Format
The panel will communicate with Alarm Receiving Centre 1 using Pulse Format. See page 60 for details on configuring reporting codes.

(2) Express Format
The panel will communicate with Alarm Receiving Centre 1 using Express Format. See page 60 for details on configuring reporting codes.

(3) Fast Format/Speech Module
The panel will communicate with Alarm Receiving Centre 1 using Fast Format protocol. If the "Enable Speech Module" option is enabled in the Protocol Options (see page 54) the panel will use the plug-on *Speech Module* to communicate the alarm information. The Fast Format/Speech channels must be programmed to the required to type, see Program Outputs on page 46.

(4) Contact ID
The panel will communicate with Alarm Receiving Centre 1 using Contact ID. The defaults Contact ID codes are shown in the accompanying "Installation Records and Defaults" booklet.

(5) SIA Level 2/3
The panel will communicate with Alarm Receiving Centre 1 using SIA Level 2. If the "Send SIA Text" option is enabled, the panel will communicate using SIA level 3. The defaults SIA codes are shown in the accompanying "Installation Records and Defaults" booklet.

(6) Pager
The panel will communicate to a pager. When using the pager option the panel transmits the data to the pager using the following format:

Pager Format = AAAAAA EE

AAAAAA	4 - 6 digit account number
EE	Event Code This code is the same code used for Pulse formats (see page 60)

If for example the account number for the site was programmed as 1234 and zone 8 was violated and caused a burglar alarm, the pager would display 1234 38.

NOTE When using the pager option the telephone number will require a pause after it to make it work properly, see Telephone Numbers above.

When using the pager option the pager is normally terminated using either a * or #. This is programmable see Protocol Options on page 54.

The dial attempts when using the pager option should be programmed to 1, see Dial Attempts on page 52.

The panel has no way of confirming if the pager was called successfully which means a "Communication Failure" fault will never be generated.

The panel will only report the event groups that are selected in the Reporting Options, see page 53.

(7) Mobile Phone
This protocol can be used to communicate with standard or mobile phones. When an alarm is activated the panel will dial the programmed telephone number and play a number of "bleeps", which is repeated 10 times, after which the panel will hang-up.

The number of bleeps corresponds to the pulse format code for the selected event, e.g., if the pulse code for zone 4 alarm is programmed as "4" the panel will play 4 "bleeps". See page 60 for details on configuring reporting codes.

Dial Attempts (7)(1)-(3)

This is the number of times the panel will attempt to communicate with Alarm Receiving Centre 1.

NOTE The maximum number of repeat dialling attempts is limited to 9. The system will only allow you to enter values between 0 and 9. Setting the value to 0 will disable the communicator for ARC 1.

Partition Options (7)(1)-(4)

The Partition Options are described as follows:

(1) **Report for Partition 1**
On: The system will report events for Partition 1 to Alarm Receiving Centre 1.
Off: The system will not report events for Partition 1.

(2) **Report for Partition 2**
On: The system will report events for Partition 2 to Alarm Receiving Centre 1.
Off: The system will not report events for Partition 2.

(3) **Report for Partition 3 (*Premier 816/832* Only)**
On: The system will report events for Partition 3 to Alarm Receiving Centre 1.
Off: The system will not report events for Partition 3.

(4) **Report for Partition 4 (*Premier 816/832* Only)**
On: The system will report events for Partition 4 to Alarm Receiving Centre 1.
Off: The system will not report events for Partition 4.

Reporting Options (7)(1)-(5)

The Reporting Options are described as follows:

(1) **Report Priority Alarm and Cancel Events**
On: Priority alarm and cancel events are reported to ARC1.
Off: Priority alarms and cancel events are not reported.

(2) **Report Alarm and Cancel Events**
On: Alarm and cancel events are reported to ARC1.
Off: Alarm and cancel events are not reported.

(3) **Report Open and Close Events**
On: Open and close events are reported to ARC1.
Off: Open and close events are not reported.

(4) **Report Bypass and Unbypass Events**
On: Bypass and unbypass events are reported to ARC1.
Off: Bypass and unbypass events are not reported.

(5) **Report Maintenance Alarm Events**
On: Maintenance alarm events are reported to ARC1.
Off: Maintenance alarm events are not reported.

(6) **Report Tamper Alarm Events**
On: Tamper alarm events are reported to ARC1.
Off: Tamper alarm events are not reported.

(7) **Report Test Transmission Events**
On: Test transmission events are reported to ARC1.
Off: Test transmission events are not reported.

(8) **Report Restore Events**
On: Restore events are reported to ARC1.
Off: Restore events are not reported.

Pulse Format Options (7)(1)-(6)

If ARC 1 protocol is programmed for "Pulse Format", the pulse format protocol can be changed using this menu option. The following options are available:

(1) **Use 1900Hz Carrier**
On: Pulse Format carrier frequency is set to 1900Hz.
Off: Pulse Format carrier frequency is set to 1800Hz.

(2) **Use 40 PPS Baud Rate**
On: Pulse Format baud rate is set to 40 pulses per second.
Off: Pulse Format baud rate is set to 20 pulses per second.

(3) **Enable Parity**
On: Pulse Format uses parity.
Off: Pulse Format doesn't use parity.

(4) **Use 2 Digit Events**
On: Pulse/Express Format uses 2 digits (3 + 2 or 4 + 2).
Off: Pulse/Express Format uses 1 digit (3 + 1 or 4 + 1).

(5) **Use 2300Hz Handshake**
On: Pulse Format uses 2300Hz handshake.
Off: Pulse Format uses 1400Hz handshake.

(6) **Use 2300Hz Kiss-Off Frequency**
On: Pulse Format uses 2300Hz kiss-off.
Off: Pulse Format uses 1400Hz kiss-off.

(7) **Use Fast/Slow Format**
On: Pulse Format uses 10 PPS.
Off: Pulse Format uses either 20 or 40 PPS as defined by option 2 (Use 40 PPS Baud Rate).

The table below shows how to configure some of the common protocols:

Protocol	Zone Lights						
	1	2	3	4	5	6	7
Ademco Slow 3x1/4x1	-	-	-	-	-	-	✔
Ademco Slow 3x2/4x2	-	-	-	✔	-	-	✔
Ademco Fast 3x1/4x1	-	-	-	-	-	-	-
Ademco Fast 3x2/4x2	-	-	-	✔	-	-	-
Silent Knight Fast 3x1/4x1	✔	-	-	-	-	-	-
Silent Knight Fast 3x2/4x2	✔	-	-	✔	-	-	-
FBI (No Parity) 3x1/4x1	✔	-	-	-	-	-	-
FBI (Parity) 3x1/4x1	✔	-	✔	-	-	-	-
Franklin 3x1/4x1	-	-	-	-	✔	✔	-
Franklin 3x2/4x2	-	-	-	✔	✔	✔	-
Radionics 3x1/4x1	-	✔	-	-	✔	✔	-
Radionics (Parity) 3x1/4x1	-	✔	✔	-	✔	✔	-
Radionics 3x2/4x2	-	✔	-	✔	✔	✔	-
Radionics (Parity) 3x2/4x2	-	✔	✔	✔	✔	✔	-
Sescoa	✔	-	-	-	-	-	-
Sescoa Super Fast	-	-	✔	-	-	-	-

✔ = Zone Light On

Fast Format Reporting Channels ⑦①-⑦

This option defines which channels are reported to Alarm Receiving Centre 1 when using the Fast Format communication protocol (see page 52).

① **Report Fast Format Channel 1**
On: Channel 1 is reported.
Off: Channel 1 is not reported.

② **Report Fast Format Channel 2**
On: Channel 2 is reported.
Off: Channel 2 is not reported.

③ **Report Fast Format Channel 3**
On: Channel 3 is reported.
Off: Channel 3 is not reported.

④ **Report Fast Format Channel 4**
On: Channel 4 is reported.
Off: Channel 4 is not reported.

⑤ **Report Fast Format Channel 5**
On: Channel 5 is reported.
Off: Channel 5 is not reported.

⑥ **Report Fast Format Channel 6**
On: Channel 6 is reported.
Off: Channel 6 is not reported.

⑦ **Report Fast Format Channel 7**
On: Channel 7 is reported.
Off: Channel 7 is not reported.

⑧ **Report Fast Format Channel 8**
On: Channel 8 is reported.
Off: Channel 8 is not reported.

NOTE The channel must also be programmed to report an event, see "Program Outputs" on page 44.

Protocol Options ⑦①-⑧

This menu option allows you to alter the operation of certain protocol types. The Protocol Options are described as follows:

① **Disable SIA Modifier Block/Enable Speech Module**
On: When using SIA protocol, the area/partition modifier data block (ri) is not transmitted. When using Fast Format protocol the *Speech Module* is enabled.
Off: When using SIA protocol, the area/partition modifier data block (ri) is transmitted. When using Fast Format protocol the *Speech Module* is disabled.

② **Disable Separate Events for Each Partition**
On: The panel will communicate as follows:

- If the event occurs in single partition, the panel will report the event using the appropriate account number for the partition.
- If the event occurs in multiple partitions, the panel will report the event using the appropriate account number for the lowest partition, e.g., if the event occurs in partitions 2, 3 and 4, the panel will report the event for partition 2.
- If the account number is not programmed for partitions 2, 3 and 4, the global (partition 1) account number is used.

Off: The panel will communicate as follows:

- If the event occurs in single partition, the panel will report the event using the appropriate account number for the partition.
- If the event occurs in multiple partitions, the panel will report a separate event for each partition using the appropriate account numbers. E.g., if the event occurs in partitions 1 and 3, the panel will report the event for partition 1 using the account number for partition 1, then it will report the event for partition 2 using the account number for partition 2.
- If the account number is not programmed for partitions 2, 3 and 4, the global (partition 1) account number is used.

③ **Pager Terminator = * (Star)**
On: When using the pager format, the panel transmits a * (star) to terminate the pager call.
Off: When using the pager format, the panel transmits a # (hash) to terminate the pager call.

④ **Send Pager Terminator Twice/SIA Text**
On: When using the pager format, the panel transmits the pager terminator (* or #) twice to terminate the pager call. If SIA protocol is enabled, the panel will send zone/user text for relevant events (SIA level 3).
Off: When using the pager format, the panel transmits the pager terminator (* or #) once to terminate the pager call. If SIA protocol is enabled, the panel does not send zone/user text for relevant events (SIA level 2).

⑤ **Pager DTMF Tones = 500mS**
On: When using the pager format, the panel transmits the pager DTMF tones with an on time of 500mS.
Off: When using the pager format, the panel transmits the pager DTMF tones with an on time of 80mS.

⑥ **Disable Zone Restorals**
On: Zone restore events are not sent to the Alarm Receiving Centre (even if Report Restore Events are enabled, see page 53).
Off: Zone restore events are sent to the Alarm Receiving Centre 1 (providing Report Restore Events are enabled, see page 53).

⑦ **Communication Acknowledgment Tone**
On: After a successful communication with the alarm receiving centre the keypads and panel speaker will generate an acknowledgment tone.
Off: After a successful communication the system will remain silent.

⑧ **Send via IP**
On: Alarm events are sent to the ARC via the *ComIP* module (TCP/IP). Only Fast Format, Contact ID and SIA protocols are supported with this option.
Off: Alarm events are not sent via the *ComIP* module.

ARC 2 Communicator Options (7)(2)

This option allows the on-board communicator to be configured for Alarm Receiving Centre 2. The same options are available as for the ARC 1 communicator options (see above).

Fast Format Restore Channels (7)(3)

If either ARC 1 or ARC 2 protocols are programmed as "Fast Format (UK)", the channels that report a restore event to the Alarm Receiving Centre may be selected.

(1) **Report Restore on Channel 1**
On: Restore reported on channel 1.
Off: Restore not reported on channel 1.

(2) **Report Restore on Channel 2**
On: Restore reported on channel 2.
Off: Restore not reported on channel 2.

(3) **Report Restore on Channel 3**
On: Restore reported on channel 3.
Off: Restore not reported on channel 3.

(4) **Report Restore on Channel 4**
On: Restore reported on channel 4.
Off: Restore not reported on channel 4.

(5) **Report Restore on Channel 5**
On: Restore reported on channel 5.
Off: Restore not reported on channel 5.

(6) **Report Restore on Channel 6**
On: Restore reported on channel 6.
Off: Restore not reported on channel 6.

(7) **Report Restore on Channel 7**
On: Restore reported on channel 7.
Off: Restore not reported on channel 7.

(8) **Report Restore on Channel 8**
On: Restore reported on channel 8.
Off: Restore not reported on channel 8.

NOTE The channel must also be programmed to report an event, see "Program Outputs" on page 44.

The channel must also be programmed to report to the ARC, see "Fast Format Reporting Channels" on page 54.

Fast Format Open/Close Channels (7)(4)

If either ARC 1 or ARC 2 protocols are programmed as "Fast Format (UK)", the channels that report an Open/Close event to the Alarm Receiving Centre may be selected.

(1) **Report Open/Close on Channel 1**
On: Open/Close reported on channel 1.
Off: Open/Close not reported on channel 1.

(2) **Report Open/Close on Channel 2**
On: Open/Close reported on channel 2.
Off: Open/Close not reported on channel 2.

(3) **Report Open/Close on Channel 3**
On: Open/Close reported on channel 3.
Off: Open/Close not reported on channel 3.

(4) **Report Open/Close on Channel 4**
On: Open/Close reported on channel 4.
Off: Open/Close not reported on channel 4.

(5) **Report Open/Close on Channel 5**
On: Open/Close reported on channel 5.
Off: Open/Close not reported on channel 5.

(6) **Report Open/Close on Channel 6**
On: Open/Close reported on channel 6.
Off: Open/Close not reported on channel 6.

(7) **Report Open/Close on Channel 7**
On: Open/Close reported on channel 7.
Off: Open/Close not reported on channel 7.

(8) **Report Open/Close on Channel 8**
On: Open/Close reported on channel 8.
Off: Open/Close not reported on channel 8.

NOTE The channel must also be programmed to report an event, see Program Outputs on page 44.

The channel must also be programmed to report to the ARC, see "Fast Format Reporting Channels" on page 54.

Cancel Call Waiting Sequence (7)(5)

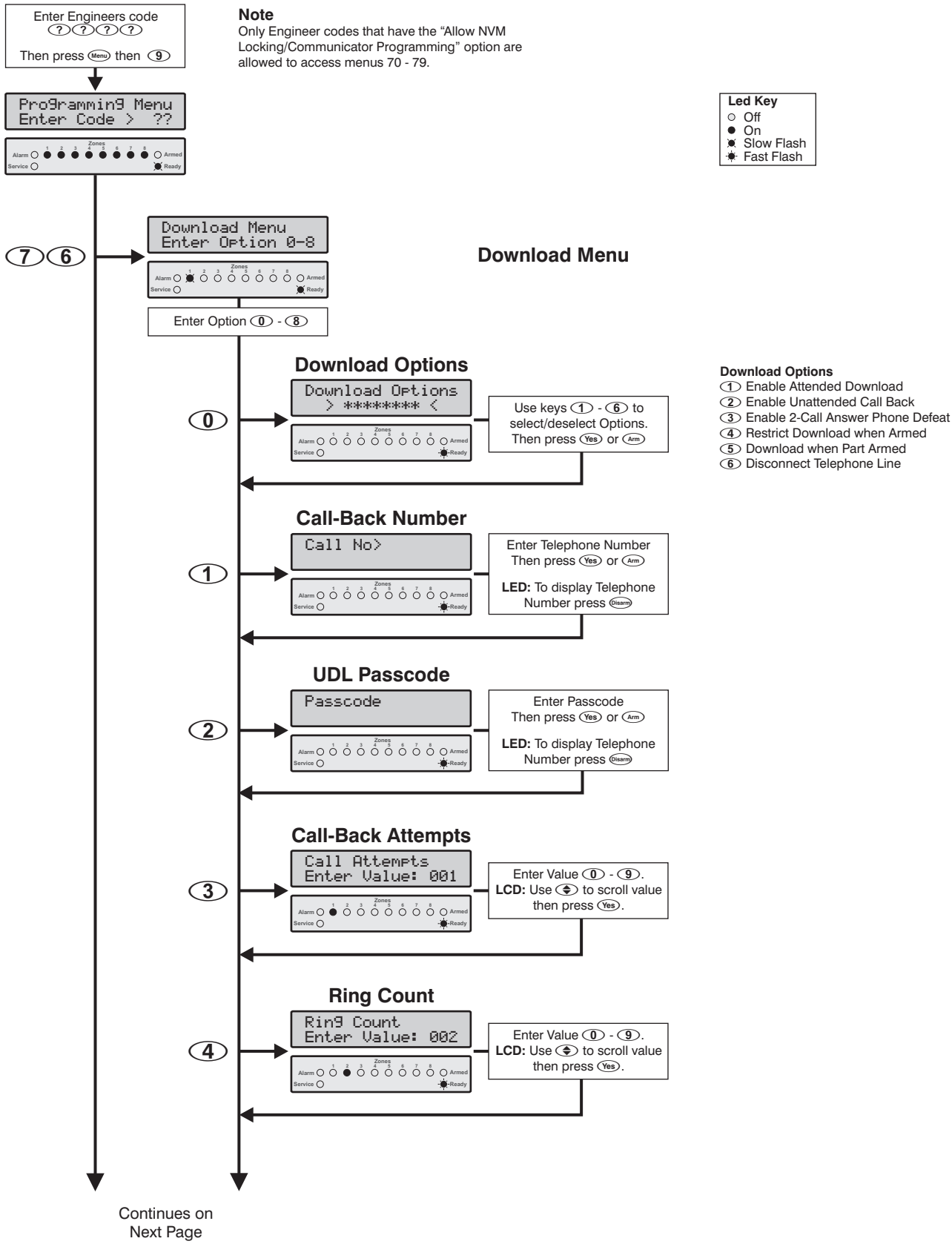
This is the number that the panel dials to disable Call Waiting. The number can be up to 24 digits. The Cancel Call Waiting option must also be enabled, see Communicator Options on page 51.

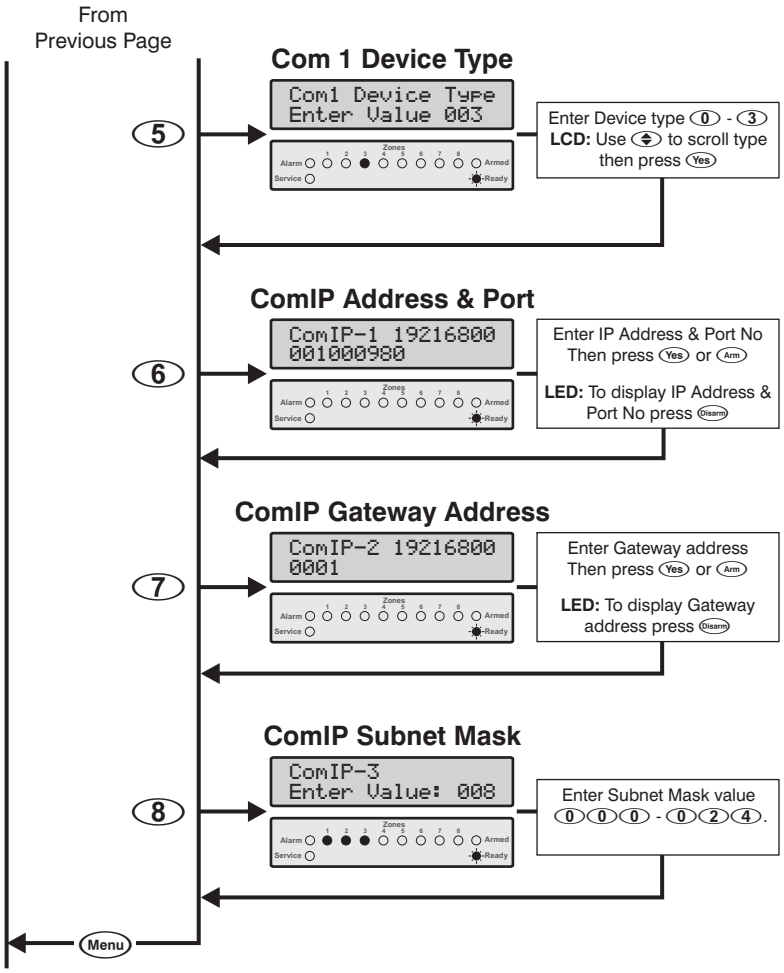
Programming Check List

The table below provides a checklist of what options require programming for each of the protocols supported:

Protocol	0 - Telephone No	1 - Account No	2 - Protocol Type	3 - Dial Attempts	4 - Partition Options	5 - Reporting Options	6 - Pulse Format Options	7 - Fast Format Channels	8 - Protocol Options	73 - Fast Format Restore Channels	74 - Fast Format Open/Close Channels	Notes
Pulse Format	✔	✔	✔ 1	✔	✔	✔	✔ 2		✔ 3			1. Program to type 1. 2. Use table on page 53. 3. Set option 6 as required.
Express Format	✔	✔	✔ 1	✔	✔	✔	✔ 2		✔ 3			1. Program to type 2. 2. Enable option 4 if 2 digit format is required. 3. Set option 6 as required.
Fast Format	✔	✔	✔ 1	✔				✔ 2		✔ 3	✔ 4	1. Program to type 3. 2. Select channels that are required to report. Also program the channels for the relevant type, see page 46. 3. Select channels that require a restore to be reported. 4. Select channels that require to report Open/Close.
Speech Module	✔		✔ 1	✔				✔ 2	✔ 3			1. Program to type 3. 2. Select channels 1 and/or 2. Also program the channels for the relevant type, see page 46. 3. Enable option 1.
Contact ID	✔	✔	✔ 1	✔	✔	✔			✔ 2			1. Program to type 4. 2. Set options 2 and 6 as required.
SIA Level 2	✔	✔	✔ 1	✔	✔	✔			✔ 2			1. Program to type 5. 2. Set options 1, 2 and 6 as required.
SIA Level 3	✔	✔	✔ 1	✔	✔	✔			✔ 2			1. Program to type 5. 2. Set options 1, 2 and 6 as required. Enable option 4.
Pager	✔	✔	✔ 1	✔	✔	✔			✔ 2			1. Program to type 6. 2. Set options 3, 4, 5 and 6 as required.
Mobile Phone	✔	✔	✔ 1	✔	✔	✔			✔ 2			1. Program to type 7. 2. Set option 6 as required.

Programming Download Options





Device Types
0 PC-Com/USB-Com
1 RadioPlus
2 Inovonics Radio
3 ComIP Module

Note
The ComIP address and port number MUST be entered as a 17 digit sequence, e.g. If the IP address is 192.168.0.10 and the port number 980, then it should be entered as:
192 168 000 010 00980

Note
The ComIP Gateway address MUST be entered as a 12 digit sequence, e.g. If the Gateway address is 192.168.0.1, then it should be entered as:
192 168 000 001

Download Menu (7)(6)

The Download Menu has the following options:

(0) Download Options

(1) Download Telephone Number

(2) UDL Passcode

(3) Call Back Attempts

(4) Ring Count

(5) Com1 Device Type

(6) ComIP Address & Port

(7) ComIP Gateway address

(8) ComIP Subnet Mask

Download Options (7)(6)-(0)

The system has the following Download options:

(1) **Enable Attended Download**
On: The system will only allow download access if a user has authorised downloading.
Off: The system will allow unattended download access.

(2) **Enable Unattended Call Back**
On: The system will call back the remote computer before the system can be downloaded.
Off: Call back is not required.

(3) **Enable 2-Call Answer Phone Defeat**
On: The panel will answer incoming calls as follows:

- In order to "prime" the panel one or more rings must be detected, but the panel must not detect more than the ring count. If the panel detects more than the ring count the panel will not "prime" itself.
- The panel will remain in primed state for 60 seconds.
- When the panel is primed the next incoming call is answered immediately.

Off: The panel will answer incoming calls after the specified "Download Ring Count", see below.

(4) **Restrict Download when Armed**
On: Download access is restricted when the system is armed (see option 5 below).
Off: The panel can be downloaded at any time.

⑤ Download when Part Armed
If option 4 above is enabled, then downloading is restricted as follows:

On: The panel will allow download access if system is part armed (one or more partitions disarmed).
Off: The panel will only allow download access when all partitions are disarmed.

⑥ Disconnect Telephone Line
If this option is enabled, the standard T and R connections cannot be used instead the telephone line must be connected to terminals T1 and R1. This configuration provides additional lightning protection as the telephone line is isolated most of the time and is only switched in when the panel is required to transmit an alarm or to test the status of the telephone line. If this option is used then it is NOT possible to use the upload/download feature unless the user enables "Remote Access" see page 67. The operation is as follows:

On: The telephone line is disconnected from panel during normal operation and is only switched in when the panel is required to send an alarm event or test the line (tested every hour).
Off: The telephone line is continuously connected and operates as normal.

Call Back Number ⑦⑥-①
This is the telephone number that is used to dial the remote downloading computer when the system has been configured to use Unattended Call Back, see Download Options.

UDL Passcode ⑦⑥-②
When the remote downloading computer dials into the system, the control panel compares the Security code sent by the computer with Security code stored in the control panel. If the Security codes match, access to the control panel is granted, otherwise access is denied.

The security programmed in this option MUST also be programmed in the customer account on the remote downloading computer. The Security code can be up to 8 characters.

Download Dial Attempts ⑦⑥-③
If the "Enable Unattended Call Back" feature is enabled, (see Download Options), this option controls the number of times the panel will attempt to call back the remote downloading computer.

NOTE The maximum number of repeat dialling attempts is limited to 9. The system will only allow you to enter values between 0 and 9. Setting the value to 0 will disable the modem from dialling out.

Ring Count ⑦⑥-④
This counter controls the number of rings required in order for the on-board modem to answer the incoming call. If the "Ring Count" is set to 0 the panel will not answer any incoming calls.

Com1 Device Type ⑦⑥-⑤
This option allows you to specify which module is connected to communication port Com1.The control panel will accept the following modules:

⓪ *PC-Com*
① *RadioPlus*
② *Inovonics Radio*
③ *ComIP*

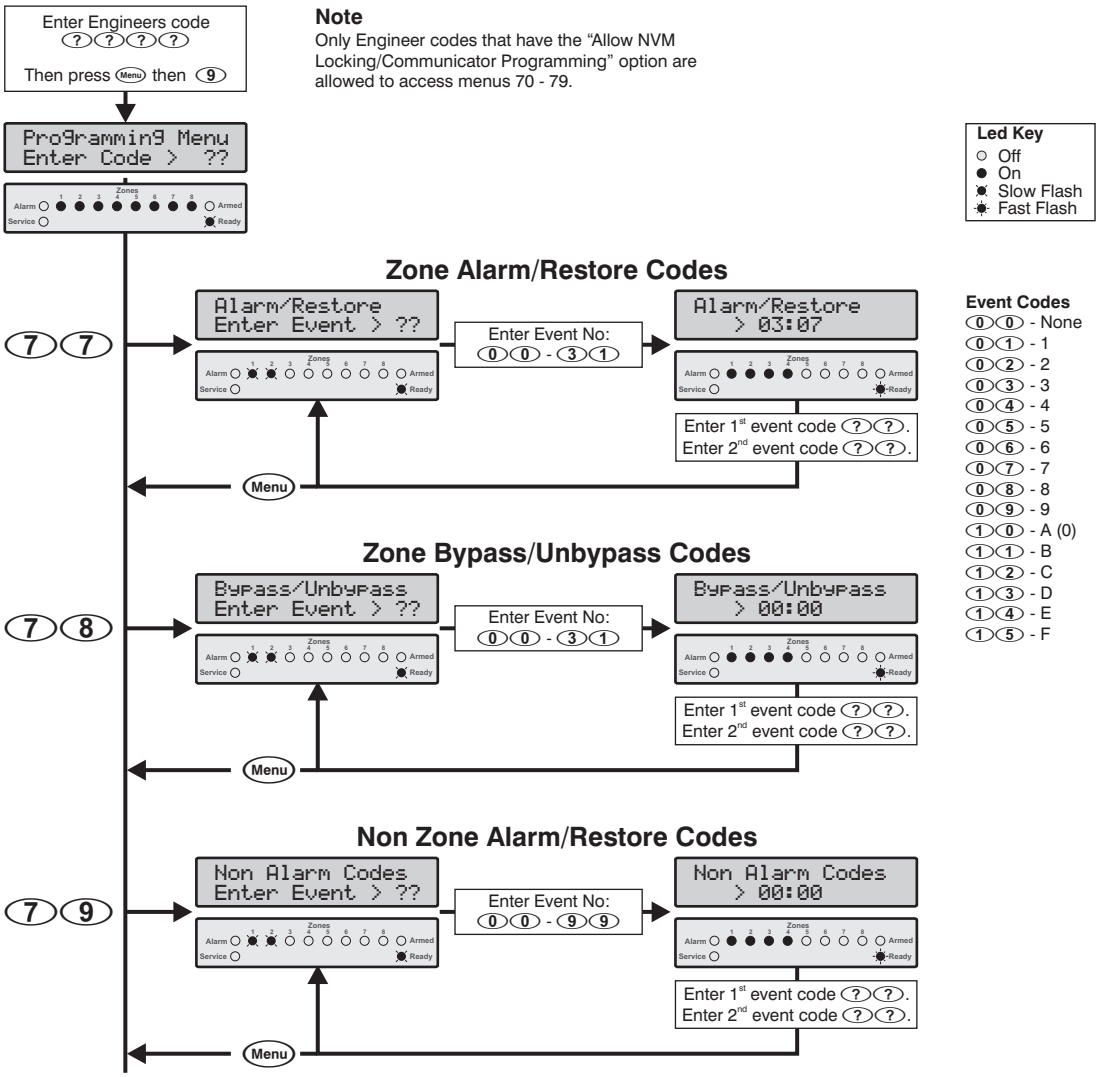
ComIP Address & Port ⑦⑥-⑥
This option allows you to assign an IP address and port number to the *ComIP* module (if fitted). The IP address and port number MUST be entered as a 17 digit sequence, e.g. If the IP address is 192.168.0.10 and the port number 980, then it should be entered as: 192 168 000 010 00980.

ComIP Gateway Address ⑦⑥-⑦
This option allows you to assign a Gateway IP address to the *ComIP* module (if fitted). The Gateway IP address MUST be entered as a 12 digit sequence, e.g. If the Gateway IP address is 192.168.0.1, then it should be entered as: 192 168 000 001.

ComIP Subnet Mask ⑦⑥-⑧
This option allows you to assign a Subnet Mask to the *ComIP* module (if fitted). The Subnet Mask is entered as a decimal value of 001 through to 024. Each decimal value generates the following Subnet Masks used by the *ComIP* module:

Value	Subnet Mask	Value	Subnet Mask
001	255.255.255.254	013	255.255.224.0
002	255.255.255.252	014	255.255.192.0
003	255.255.255.248	015	255.255.128.0
004	255.255.255.240	016	255.255.0.0
005	255.255.255.224	017	255.254.0.0
006	255.255.255.192	018	255.252.0.0
007	255.255.255.128	019	255.248.0.0
008	255.255.255.0	020	255.240.0.0
009	255.255.254.0	021	255.224.0.0
010	255.255.252.0	022	255.192.0.0
011	255.255.248.0	023	255.128.0.0
012	255.255.240.0	024	255.0.0.0

Programming Reporting Codes



Zone Alarm/Restore Event Numbers

No	Event Type	No	Event Type
00	Zone 01 Alarm	16	Zone 09 Alarm
01	Zone 01 Restore	17	Zone 09 Restore
02	Zone 02 Alarm	18	Zone 10 Alarm
03	Zone 02 Restore	19	Zone 10 Restore
04	Zone 03 Alarm	20	Zone 11 Alarm
05	Zone 03 Restore	21	Zone 11 Restore
06	Zone 04 Alarm	22	Zone 12 Alarm
07	Zone 04 Restore	23	Zone 12 Restore
08	Zone 05 Alarm	24	Zone 13 Alarm
09	Zone 05 Restore	25	Zone 13 Restore
10	Zone 06 Alarm	26	Zone 14 Alarm
11	Zone 06 Restore	27	Zone 14 Restore
12	Zone 07 Alarm	28	Zone 15 Alarm
13	Zone 07 Restore	29	Zone 15 Restore
14	Zone 08 Alarm	30	Zone 16 Alarm
15	Zone 08 Restore	31	Zone 16 Restore

Zone Bypass/Unbypass Event Numbers

No	Event Type	No	Event Type
00	Zone 01 Bypass	16	Zone 09 Bypass
01	Zone 01 Unbypass	17	Zone 09 Unbypass
02	Zone 02 Bypass	18	Zone 10 Bypass
03	Zone 02 Unbypass	19	Zone 10 Unbypass
04	Zone 03 Bypass	20	Zone 11 Bypass
05	Zone 03 Unbypass	21	Zone 11 Unbypass
06	Zone 04 Bypass	22	Zone 12 Bypass
07	Zone 04 Unbypass	23	Zone 12 Unbypass
08	Zone 05 Bypass	24	Zone 13 Bypass
09	Zone 05 Unbypass	25	Zone 13 Unbypass
10	Zone 06 Bypass	26	Zone 14 Bypass
11	Zone 06 Unbypass	27	Zone 14 Unbypass
12	Zone 07 Bypass	28	Zone 15 Bypass
13	Zone 07 Unbypass	29	Zone 15 Unbypass
14	Zone 08 Bypass	30	Zone 16 Bypass
15	Zone 08 Unbypass	31	Zone 16 Unbypass

Zone Alarm/Restore Codes (77)

This menu option allows you to change the alarm/restore reporting event codes for each zone. These codes are used with Pulse Format, Express Format, Pager and Mobile Phone communication protocols. The defaults reporting codes are listed in the accompanying "Installation Records & Defaults" booklet.

NOTE To disable the zone from reporting an event, program the first and second digit as 00.

Zone Bypass/Unbypass Codes (78)

This menu option allows you to change the bypass/unbypass reporting event codes for each zone. These codes are used with Pulse Format, Express Format, Pager and Mobile Phone communication protocols. The defaults reporting codes are listed in the accompanying "Installation Records & Defaults" booklet.

NOTE To disable the zone from reporting an event, program the first and second digit as 00.

Non Zone Alarm/Restore Codes (79)

This menu option allows you to change the reporting event codes for non zone events. These codes are used with Pulse Format, Express Format, Pager and Mobile Phone communication protocols. The defaults reporting codes are listed in the accompanying "Installation Records & Defaults" booklet.

NOTE To disable the event from reporting, program the first and second digit as 00.

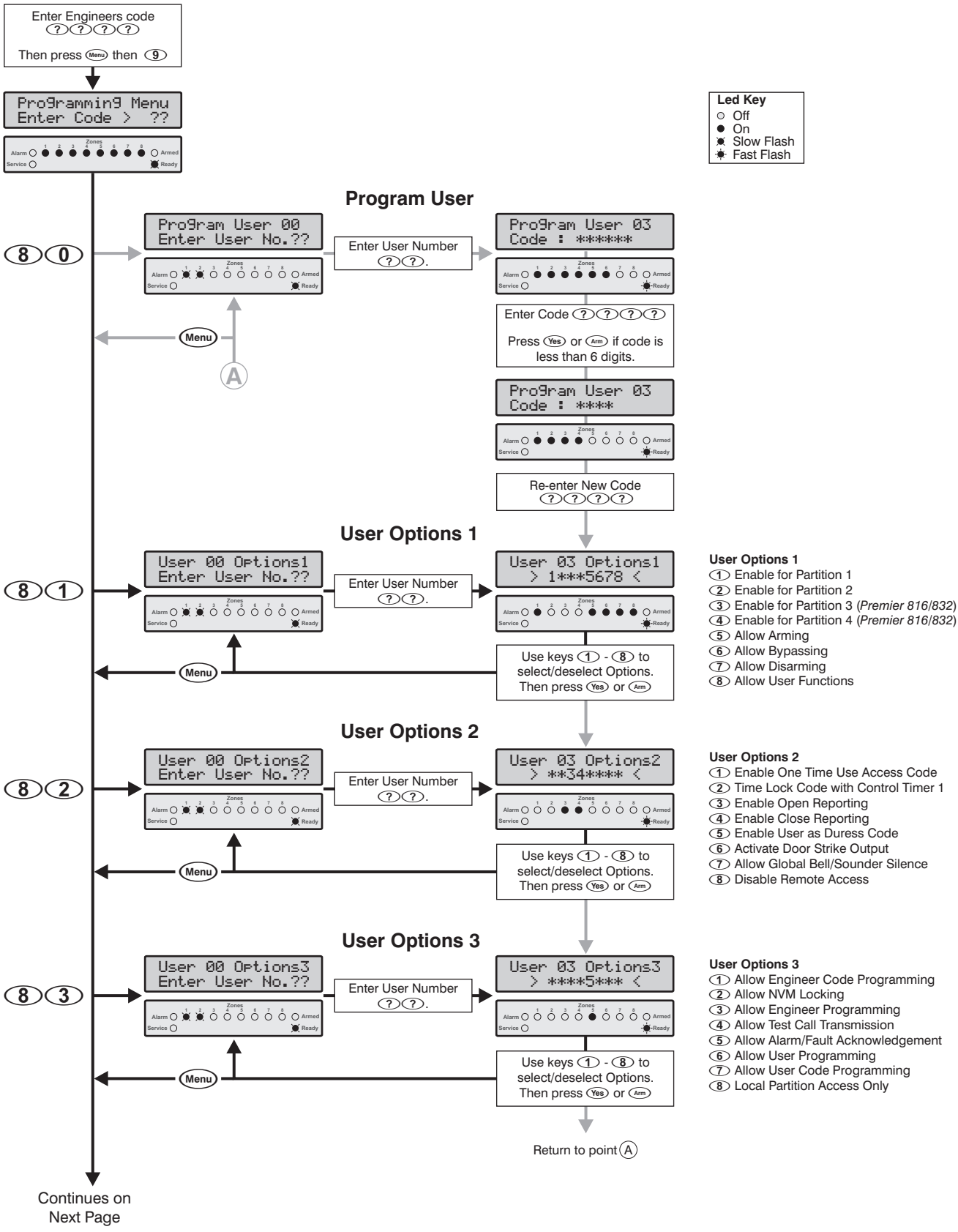
The table below shows the event numbers for both alarm and restore for each event type:

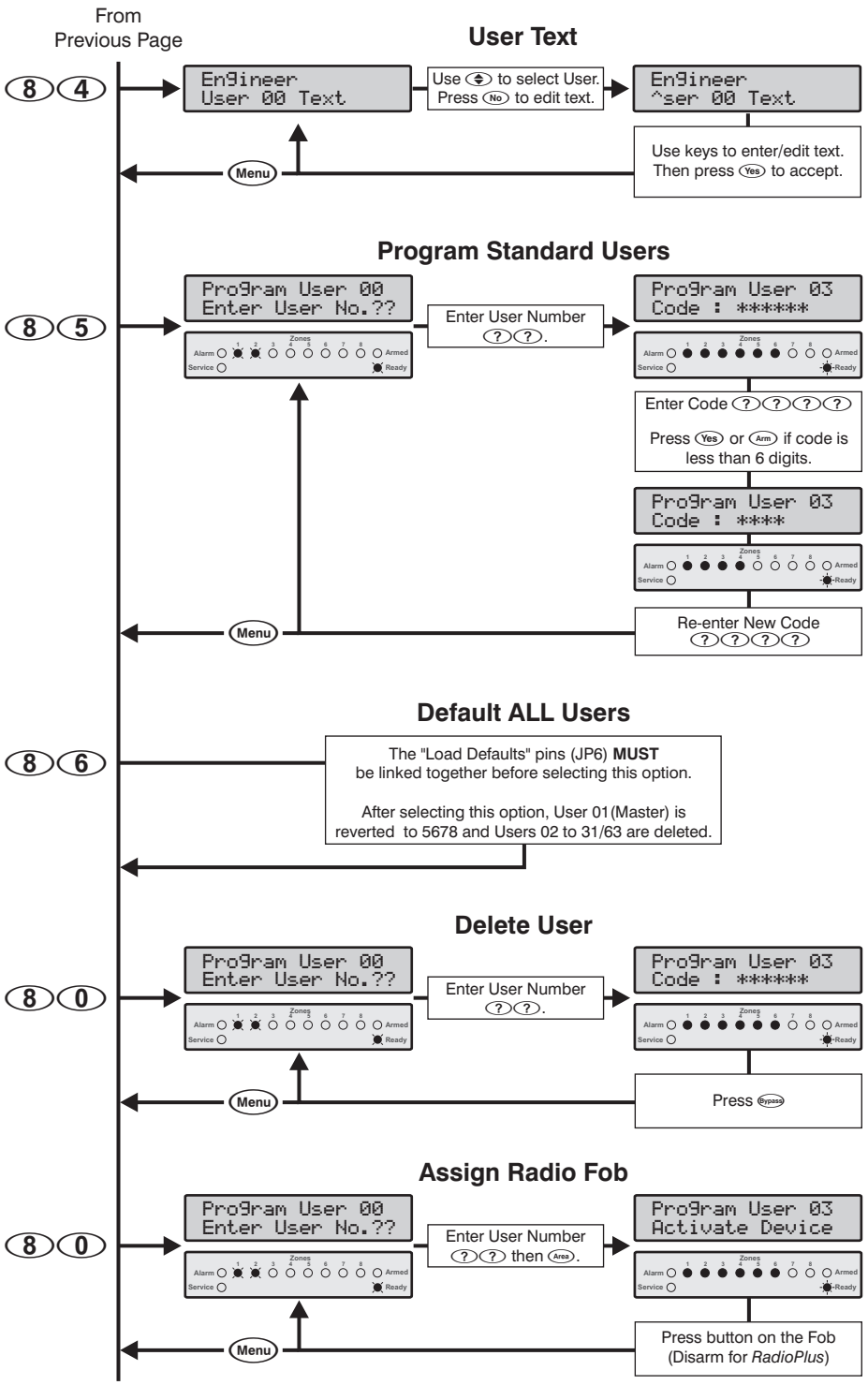
Event Type	Alarm Event No	Restore Event No
AC Fail	00	01
Low Battery	02	03
Telephone Line Fault	04	05
Fail to Communicate	06	07
Open/Close	08	09
Recent Closing	10	11
Auto Open/Close	12	13
Auto Arm Deferred	14	15
Remote Open/Close	16	17
Quick Arm	18	19
Open After Alarm (Cancel)	20	21
Download Start	22	23
Download End	24	25
Group Bypass/Unbypass	26	27
Log Capacity Alert (80%)	28	29
Keypad Lockout	30	31
Code Tamper Alarm	32	33
Manual Test Transmission	34	35
Automatic Test Transmission	36	37
User Zone Test Start/End	38	39
Auxiliary Power Fail/Restore	40	41
Bell Output Fault/Restore	42	43
Installer Programming Start	44	45
Installer Programming End	46	47
Exit Error	48	49
Verified Cross Zone Alarm	50	51
Soak Test	52	53
Fire Zone Trouble	54	55
System Power Up	56	57
Swinger Shutdown	58	59
User Code	60	61
Exit Started	62	63
Entry Started	64	65
Bell Active	66	67
Alarm Active	68	69
Keypad Tamper	70	71
Keypad Medical	72	73
Keypad Fire/2-Wire Smoke	74	75
Duress Code Alarm	76	77
Keypad Silent PA	78	79
Keypad Audible PA/Auxiliary PA	80	81
Box Tamper	82	83
Zone Tamper	84	85
Zone Trouble	86	87
Expander/Remote Trouble	88	89
Auxiliary Tamper Input	90	91
Date Changed	92	93
Time Changed	94	95
System Reset	96	97
Remote Control	98	99

Contact ID and SIA Codes

The reporting codes for Contact ID and SIA are fully configurable, however these codes can only be changed using *Wintex* downloading software. The defaults reporting codes for Contact ID and SIA are listed in the accompanying "Installation Records & Defaults" booklet.

Programming Users





Text Editing Keys

1 . , ? ! 1 @ " - &
2 abc 2 A B C
3 def 3 D E F
4 ghi 4 G H I
5 jkl 5 J K L
6 mno 7 M N O
7 pqrs 7 P Q R S
8 tuv 8 T U V
9 wxyz 9 W X Y Z
0 Space 0 , # *
◆ Move Left/Right
Reset Backspace (delete)

Program User (8)(0)

The Program User option allows the engineer to assign new users for the alarm system. The number of users (including the engineer) that are available is as follows:

- *Premier 412* - 32 Users
- *Premier 816* - 32 Users
- *Premier 832* - 64 Users

User 00 is the Engineer and can only be accessed by the engineer code. User 01 is the Master User which has a default code of 5678. Neither of these two users can be deleted from the system.

Each user is assigned the following attributes:

- **Access Code**
  This is a unique 4, 5 or 6 digit code that is assigned to the user. The system will allow a mixture of different length Access codes. The Access code must be entered at a keypad before the user can operate the alarm system.
- **User Options 1**
  See User Options 1 on page 64 for details.
- **User Options 2**
  See User Options 2 on page 64 for details.
- **User Options 3**
  See User Options 3 on page 65 for details.
- **User Text (LCD Only)**
  See User Text on page 65 for details.

When using an LED keypad it is possible to view the next available user by pressing the (Area) key before entering the two digit user number. This will cause the next available user to be indicated using the top row of status lights.

User Options 1 (8)(1)

User Options 1 can be enabled or disabled for a selected user so that the level of access to the system may be altered. The following options are available:

(1) Enable for Partition 1
On: The user can access Partition 1.
Off: The user cannot access Partition 1.

(2) Enable for Partition 2
On: The user can access Partition 2.
Off: The user cannot access Partition 2.

(3) Enable for Partition 3 (*Premier 816/832* Only)
On: The user can access Partition 3.
Off: The user cannot access Partition 3.

(4) Enable for Partition 4 (*Premier 816/832* Only)
On: The user can access Partition 4.
Off: The user cannot access Partition 4.

(5) Allow Arming
On: The user can arm the partitions they have been given access to.
Off: The user cannot arm any partitions.

(6) Allow Bypassing
On: The user can bypass zones in partitions they have been given access to.
Off: The user cannot bypass zones.

(7) Allow Disarming
On: The user can disarm the partitions they have been given access to.
Off: The user cannot disarm any partitions.

NOTE The Engineer code (User 0) can only disarm the system, if the system was armed with the Engineer code.

(8) Allow User Functions
On: The user can access the following user functions:
- Reset
- View Alarm Log
- View Service Faults
- Enable Chime
- Change Own Code

Off: The user cannot access the above user functions.

User Options 2 (8)(2)

User Options 2 can be enabled or disabled for a selected user so that the level of access to the system may be altered. The following options are available:

(1) Enable One Time Use Access Code
On: The Access code can only be used once to arm and disarm the system. After the Access code has been used to arm the system it is automatically deleted.
Off: The Access code behaves normally.

(2) Time Lock Code with Control Timer 1
On: When Control Timer 1 is on, the Access code will not be accepted by the system. When Control Timer 1 is off, the Access code will be accepted by the system. For information on programming Control Timers, see page 35.
Off: The Access code will be accepted at all times.

(3) Enable Open Reporting
On: The system will report an 'Open' condition to the alarm receiving centre when the Access code is used to disarm one or more partitions.
Off: The system will not report an 'Open' status.

NOTE The panel will always send an open signal after an alarm even if this option is disabled.

(4) Enable Close Reporting
On: The system will report a 'Close' condition to the monitoring station when the Access code is used to arm one or more partitions.
Off: The system will not report a 'Close' condition.

(5) Enable User as Duress Code
On: The Access code will report a 'Duress' condition to the monitoring station when the Access code is used.
Off: The Access code behaves normally.

⑥ **Activate Door Strike Output**
On: When a user Access code is entered, the output type "Door Strike" (see page 48) is activated for 2 seconds.
Off: The user Access code will not activate the "Door Strike" output.

⑦ **Allow Global Bell/Sounder Silence**
On: This option allows users to silence the bell and internal sounder for any partition, even if the user is not assigned to the partition that is in alarm. The user cannot disarm or reset the partition if they are not assigned to it.
Off: The user can only silence alarms for partitions that are assigned to their code.

⑧ **Disable Remote Access**
On: The touch-tone remote control feature is disabled for the selected user.
Off: The touch-tone remote control feature is enabled for the selected user.

User Options 3 ⑧③

User Options 3 can be enabled or disabled for a selected user so that the level of access to the system may be altered. The following options are available:

① **Allow Engineer Code Programming**
On: The Access code can access User 00 (Engineer) in the Program New Users menu (menu 80).
Off: The Access code cannot access user 00 in the Program New Users menu.

② **Allow NVM Locking/Communicator Programming**
On: The Access code is allowed to lock/unlock the NVM (providing "Allow Engineer Programming" is enabled). Once the NVM is locked the "Load Defaults" jumper pins on the main control panel are disabled, thus preventing the panel from being defaulted. The Access code is also allowed to access the communicator programming menus 70 - 79.
Off: The Access code cannot lock/unlock the NVM or access communicator programming menus 70 - 79.

③ **Allow Engineer Programming**
On: The Access code can access the Engineer programming menus.
Off: The Access code cannot access the Engineer programming menus.

④ **Allow Test Call Transmission**
On: The Access code can perform a test transmission to the monitoring station (menu 92, see page 67).
Off: The Access code cannot perform a test transmission.

⑤ **Allow Alarm/Fault Acknowledgement**
On: The Access code can be used to acknowledge and reset alarms and service faults. A user with this option can disarm the system after an alarm, even if the user does not have the "Allow Disarming" option.
Off: The Access code cannot be used to acknowledge and reset alarms and service faults.

⑥ **Allow User Programming**
On: The Access code can access the user program menus (menu 90 - 98).
Off: The Access code cannot access the user program menus.

⑦ **Allow User Code Programming**
On: The Access code can access users 01 to 31 in the User programming menus (menus 80 - 85).
Off: The Access code cannot access user 01 to 31 in the User programming menus.

⑧ **Local Partition Access Only**
On: The Access code can only be used to arm and disarm the partitions that are assigned to the remote keypad. For example, if the user is assigned to all four partitions and they use a remote keypad that is only assigned to partition 1, they will only be permitted to arm and disarm partition 1 at that particular remote keypad.
Off: The Access code can be used at any remote keypad (Global access).

User Text (LCD Only) ⑧④

If the system is fitted with a LCD remote keypad you can assign up to 8 characters of text to each user. This text is used when viewing the system Event Log, see page 76. User text is programmed in a similar way to mobile phones. Characters are selected by pressing the corresponding key the appropriate number of times (to select a character on the same key, press ◈ to move the cursor along). For details on entering text, see page 22.

Program Standard Users ⑧⑤

This menu option allows you to add "Standard" users to the system. The user will automatically be assigned the following options:

User Options 1: Partition 1 Access
Allow Arming
Allow Bypassing
Allow Disarming
Allow User Functions

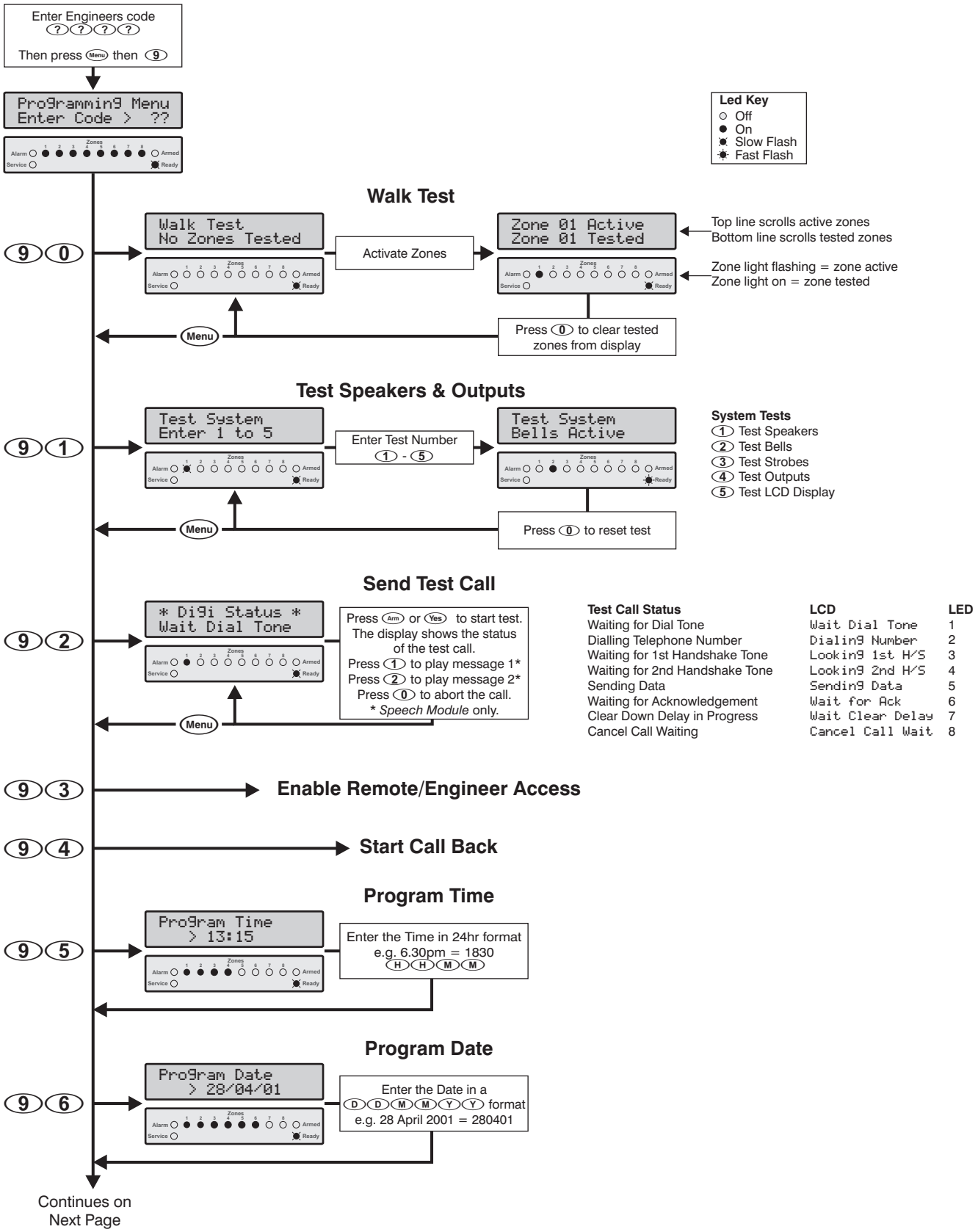
User Options 2: Enable Open Reporting
Enable Close Reporting
Allow Global Bell/Sounder Silence

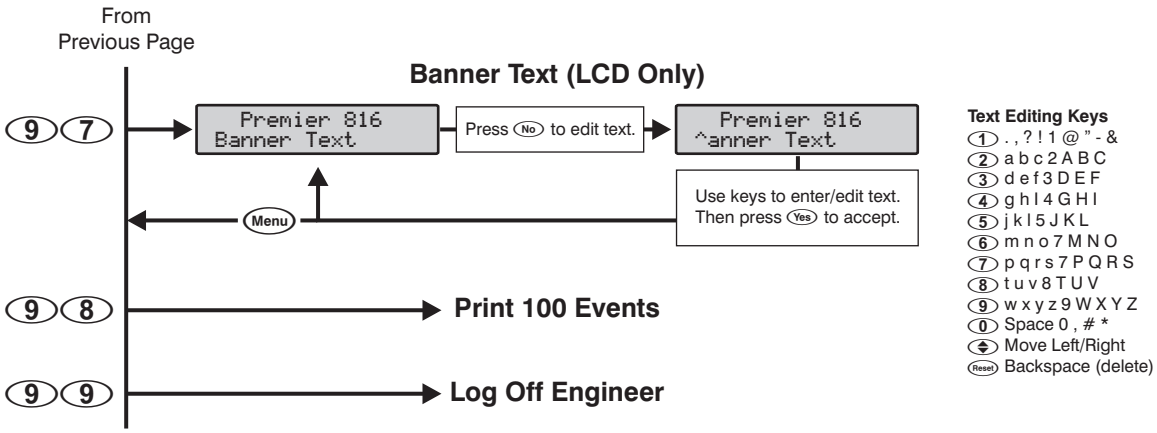
User Options 3: Allow Alarm/Fault Acknowledgement

Default ALL Users ⑧⑥

This menu option allows you to default all Users to their factory default settings. Before selecting this menu option you **MUST** link out the "Load Defaults" pins (JP6) on the control panel PCB, see page 7. After selecting this option, User 01(Master) is reverted to 5678 and Users 02 onwards are deleted.

System Tests & Utilities





Walk Test (9 0)

The Walk Test feature can only be performed when the partition is disarmed. 24 hour zones (except Fire, Tamper and Trouble) are disabled during Zone Test allowing Audible PA buttons, Silent PA buttons, etc. to be tested.

Test Speakers & Outputs (9 1)

This menu options allows you to perform the following tests:

1 Test Speakers

2 Test Bells

3 Test Strobes

4 Test System Outputs

5 Test LCD Display

NOTE Only outputs with the 'Enable User Test' option selected (see page 48), will be included in test 4.

Send Test Call (9 2)

This menu options allows you to send a test call transmission to your Alarm Receiving Centre. If the engineer code is used to select this option the keypad will display the progress status of the call.

NOTE If the panel is fitted with a *Speech Module*, keys 1 and 2 can be used to switch between speech message 1 and 2 during the test.

Enable Remote/Engineer Access (9 3)

This option will enable both Remote Access to the control panel via downloading and Engineer Access (if EN 50131-1 requirements is enabled, see page 36). Once enabled, the control panel will allow access until 12.00am, after which, both Remote and Engineer Access will be disabled.

NOTE If the "Load Defaults" jumper pins (JP6) are shorted whilst this menu option is selected, the Engineer Access code is restored to its factory default setting of 1234 (providing the NVM is not locked).

Start Call Back (9 4)

This option will cause the control panel to initiate a call back sequence. This will allow the remote downloading computer to remotely access the control panel.

NOTE If the Call Back is unsuccessful the keypad will sound the Error Tone.

Program Time (9 5)

The control panel has a real time clock that is used to date and time stamp events that are recorded within the system log. The option allows you to set the control panel time.

Program Date (9 6)

The control panel has a real time clock that is used to date and time stamp events that are recorded within the system log. The option allows you to set the date on the control panel.

Program Banner Text (LCD only) (9 7)

If the system is fitted with a LCD remote keypad you can assign up to 16 characters of text to the Banner Message. The Banner Message is displayed on the top line of the LCD display during the normal disarmed state. Text is programmed in a similar way to mobile phones. Characters are selected by pressing the corresponding key the appropriate number of times (to select a character on the same key, press ◆ to move the cursor along). For details on entering text, see page 22.

Print 100 Events (9 8)

This menu option allows the last 100 events in the system Event Log to be sent to the printer port (Com1).

Log Off Engineer (9 9)

Selecting this menu option will log you out of engineer's programming mode and return the system to its normal state.

Using *RadioPlus*

Introduction

This section describes how to install and program the *RadioPlus Intelligent Receiver* and *RadioPlus* detectors. The *RadioPlus* range is only supported with the following software versions:

Premier 412: V9.0 onwards

Premier 816: V9.0 onwards

Premier 832: V2.0 onwards

Receiver Installation

The *RadioPlus Intelligent Receiver* is supplied with its own set of instructions (INS293); these should be followed for the installation of the receiver module. Once the receiver is installed and connected to the control panel, the control panel must be configured as follows:

1. Select engineer's mode by entering the engineer code followed by (Menu) then (9).
2. Enter (7)(6) to select the **Download Menu** then press (5) to select the **Com1 Device Type**.
3. Press (1) to program Com1 for *RadioPlus* operation.
4. Press (Menu) to exit the **Download Menu**.

Learning Detectors

All *RadioPlus* detectors must be assigned to one of the available zones on the system. The zones available will vary depending on the control panel and software version:

Control Panel	Software Version	Available Zones
Premier 412	V9.0 to V9.4	Zones 9 to 16
	V9.5 onwards	Zones 1 to 16
Premier 816	V9.0 to V9.4	Zones 9 to 16
	V9.5 onwards	Zones 1 to 16
Premier 832	V2.0 to V2.4	Zones 9 to 32
	V2.5 onwards	Zones 1 to 32

Detectors are assigned to zones as follows:

1. Select engineer's mode by entering the engineer code followed by (Menu) then (9).
2. Enter (1)(8) to select the **Assign Radio Device** menu, if an error tone is generated then the receiver is not installed or configured correctly (see Receiver Installation above).
3. Enter the two digit zone number that you want to assign the detector to e.g., (0)(9).
4. Remove the cover of the detector so that it generates a tamper condition. If the cover was already open press the tamper switch then release it. The panel will generate an acceptance tone and the detector is now assigned to the selected zone.
5. Program the zone type and attributes as required. **Note:** The Zone Wiring must be programmed as "Double EOL", if a tamper response is required from the detector.
6. Repeat steps 2 - 5 for other detectors.

Removing Detectors

If a detector is no longer required it must be unassigned from the system. To remove a detector from a zone, proceed as follows:

1. Select engineer's mode by entering the engineer code followed by (Menu) then (9).
2. Enter (1)(0) to select the **All Zone Options** menu.
3. Enter the two digit zone number that you want to remove the detector from e.g., (0)(9).
4. Enter (0)(0) to program the zone type as **Null**. The panel will generate an acceptance tone and the detector is no longer assigned to the selected zone.

Learning Remote Fobs

All *RadioPlus* remote fobs must be assigned to one of the available users on the system. The users available will vary depending on the control panel:

Control Panel	Available Users
Premier 412	Users 1 to 31
Premier 816	Users 1 to 31
Premier 832	Users 1 to 63

Remote fobs are assigned to users as follows:

1. Select engineer's mode by entering the engineer code followed by (Menu) then (9).
2. Enter (8)(0) to select the **Program Users** menu.
3. Enter the two digit user number that you want to assign the remote fob to e.g., (0)(1).
4. Press the (Area) key, if an error tone is generated then the receiver is not installed or configured correctly (see Receiver Installation above).
5. Press the disarm key on the remote fob, the panel will generate an acceptance tone and the remote fob is now assigned to the selected user.
6. If required, a user access code can also be assigned to user in the normal way.

Removing Remote Fobs

If a remote fob is no longer required it must be unassigned from the system. To remove a remote fob from a user, proceed as follows:

1. Select engineer's mode by entering the engineer code followed by (Menu) then (9).
2. Enter (8)(0) to select the **Program Users** menu.
3. Enter the two digit user number that you want to remove the remote fob from e.g., (0)(1).
4. Press the (Bypass) key, the panel will generate an acceptance tone and the remote fob is no longer assigned to the selected user. **Note:** If the remote fob was assigned to user 02 onwards the user access code is also deleted.

Supervision

Each *RadioPlus* detector transmits approximately 12 supervision (polling) signals every 30 minutes. The control panel monitors the polling signals and generates a supervision fault if any detector fails to poll in with 120 minutes.

A supervision fault is shown as an active zone on the keypad display and is logged in the control panel event log. If the detector that is in fault polls in, the supervision fault is cleared.

When the "EN50131-1 requirements option" is enabled (see page 36), the system will show the zone as "active" if the detector has not polled in within the last 20 minutes when attempting to arm the system.

RadioPlus Magnetic Contact

The *RadioPlus* magnetic contact has three inputs, Reed, Mag 1 and Mag 2. The alarm response from Mag 2 input is dependant on the how the EN50131-1 option (see page 36):

Input Type	EN50131-1	
	Enabled	Disabled
Reed or Mag 1	Zone Alarm	Zone Alarm
Mag 2	Zone Tamper	Zone Alarm

5. Operating the Alarm System

Introduction

Before attempting to operate the alarm system ensure you have familiarised yourself with all the arming and disarming methods covered in this section.

Access Codes

- If you make a mistake whilst entering your Access code, simply enter the correct Access code.

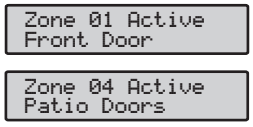
Arming & Disarming the Alarm System

Checking if the System is Ready to Arm

To help prevent faults during arming, a **Ready** light has been provided on each keypad. The **Ready** light works as follows:

- If the **Ready** light is on steady then the alarm system is ready to be armed.
- If the **Ready** light is flashing then the alarm system has bypassed zones and/or Force Armable zones that are violated, check these zones before proceeding.
- If the **Ready** light is off then one or more zones are violated, either secure or bypass these zones before proceeding. The keypads will display the zones that are violated:

Active zones are indicated by the relevant zone lights on LED Keypads



Active zones are scrolled in sequence on LCD keypads

NOTE If any unbypassed zones that are not enabled for "Force Arming" are violated at the end of the exit delay this is termed an exit error and the alarm system will go into fail set state (internal alarm). If programmed by the installer the external bell will also sound. Enter a valid user Access code to silence this alarm.

A zone will only be armed when ALL associated partitions are armed but will be disarmed when ANY associated partition is disarmed.

Away Arming

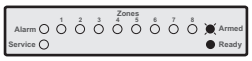
The Away arming mode is normally used when leaving the premises. When the system is armed in this mode all detection zones assigned to your partition(s) will be armed.

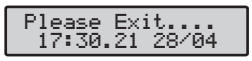
The **Ready** light must be on steady before the alarm system can be Away armed.

➤ **To Away arm the alarm system proceed as follows:**

1 Enter Access code ? ? ? ?

2 Press Arm Press Yes





The **Armed** light will flash and the exit tone will sound.

3 **Leave the premises**, when the system has armed the exit tone will stop. The system is now Away armed.

NOTE If the Quick Arm feature is enabled (see page 40) you can omit step 1 from the above procedure.

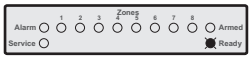
Stay Arming

The Stay arming mode is normally used when the premises will be occupied. When the system is armed in this mode all Interior detection zones assigned to your partition(s) will be bypassed. Before Stay arming check the following:

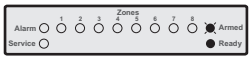
- Secure or bypass any perimeter zones that are violated.
- Ensure no perimeter zones are bypassed unintentionally.
- Ensure no perimeter Force Armable zones are violated unintentionally.

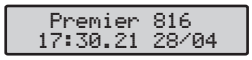
➤ **To Stay arm the alarm system proceed as follows:**

1 Enter Access code ? ? ? ?



2 Press Stay





The alarm system will arm immediately and the **Armed** light will flash.

3 The system is now Stay armed.

NOTE If the Quick Arm feature is enabled (see page 40) you can omit step 1 from the above procedure.

If the system is fitted with a *Premier RKP16 Plus* then the **Stay** light will also illuminate when the system is Stay armed.

Cancelling the Arming Process

➤ **To cancel the arming process during the exit delay:**

1 Enter Access code ? ? ? ?

2 Press Disarm Press No

3 Arming has been cancelled and the alarm system is now disarmed.

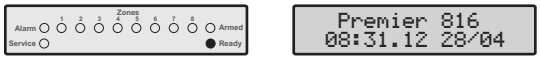
NOTE If the system only has one partition you will not have to perform step 2.

Disarming During Entry

➤ **To disarm the alarm system during entry, proceed as follows:**

1 **Enter the premises via the designated entry point**, the entry tone will sound. Proceed directly to the remote keypad.

2 Enter Access code ? ? ? ?



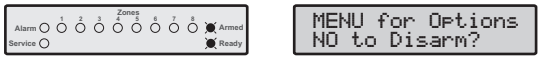
3 The entry tone will stop and the **Armed** light will turn off. The alarm system is now disarmed.

NOTE If a valid Access code is not entered before the end of the entry delay, an alarm will occur.

Disarming when not in Entry

➤ **To disarm the alarm system when not in entry, proceed as follows:**

1 Enter Access code ? ? ? ?



2 Press Disarm Press No

3 The **Armed** light will turn off. The alarm system is now disarmed.

NOTE If the system only has one partition you will not have to perform step 2.

If the Quick Disarm feature is enabled (see page 40) and the system is Stay armed you can omit step 1 from the above procedure.

Disarming after an Alarm

➤ **To disarm the alarm system after an alarm, proceed as follows:**

1 Enter Access code ? ? ? ?

2 The system is disarmed and the keypads display the source of the alarm.

The system must now be reset before you can arm again, see page 74 for details on resetting alarms.

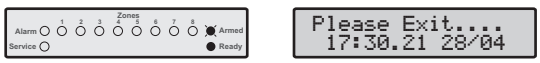
Auto Stay Arming

If your installer has enabled the Auto Stay feature the system will automatically Stay arm if the entry/exit zone (front door) is not activated whilst attempting to Away arm the system.

➤ **To auto Stay arm your alarm system proceed as follows:**

1 Enter Access code ? ? ? ?

2 Press Arm Press Yes



The **Armed** light will flash and the exit tone will sound.

3 **Do NOT leave the premises** during the exit delay. At the end of the exit delay the alarm system will Stay arm.

Changing between Delayed and Instant Stay

When Stay arming the system the delayed zones (front door etc) are normally delayed, i.e., when a delayed zone is violated it will start the entry delay timer. However, it is possible to change the delayed zones to instant when the system is in a Stay armed mode. If a delayed zone is violated when the system is in the "Instant Stay" mode the system will generate an alarm immediately.

➤ **To change from Delayed Stay to Instant Stay, proceed as follows:**

1 Ensure that the system is **Stay** armed.

2 Press and hold the Stay key until you hear the confirmation tone.

3 The **Armed** light will flash quickly. The system is **Instant Stay** armed.

NOTE If the system is fitted with a *Premier RKP16 Plus* the **Instant** light will also illuminate.

➤ **To change from Instant Stay to Delayed Stay, proceed as follows:**

1 Ensure that the system is **Instant Stay** armed.

2 Press and hold the (Stay) key until you hear the confirmation tone.


```
DELAYED STAY
17:38.21 28/04
```

3 The **Armed** light will flash slowly.
The system is **Delayed Stay** armed.

NOTE If your system is fitted with a *Premier RKP16 Plus* the **Instant** light will go off.

Arming and Disarming Partitions

This section covers arming and disarming partitions. In order to use these procedures the following requirements must be configured:

- The alarm system must be split into one or more partitions.
- Your Access code must be assigned to more than one partition.
- The keypad that you use to operate the alarm system must be assigned to multiple partitions OR your Access code is enabled for Global Access.

Away Arming Partitions

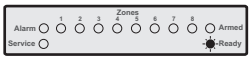
This option allows you to Away arm one or more partitions.

➤ **To Away arm selected partitions, proceed as follows:**

1 Enter Access code ? ? ? ?


```
YES to Arm?
MENU for Options
```

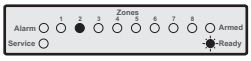
2 Press (Area)




```
YES to Arm?
Area > **.. <
```

The **Ready** light will flash quickly.

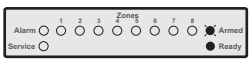
3 Press 1 - 4 to select/deselect partitions,
e.g. Press 2 to select Partition 2.




```
YES to Arm?
Area > *2.. <
```

Partition 2 is now selected.

4 Press (Arm) Press (Yes)




```
Please Exit....
17:30.21 28/04
```

The **Armed** light will flash and the exit tone will sound.

5 **Leave the area being armed**, when the partition has armed the exit tone will stop. The selected partition(s) is now Away armed.

NOTE If the Quick Arm feature is enabled (see page 40) you can omit step 1 from the above procedure.

Stay Arming Partitions

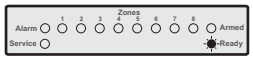
This option allows you to Stay arm one or more partitions.

➤ **To Stay Arm selected partitions, proceed as follows:**

1 Enter Access code ? ? ? ?


```
YES to Arm?
MENU for Options
```

2 Press (Area)




```
YES to Arm?
Area > **.. <
```

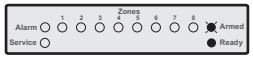
The **Ready** light will flash quickly.

3 Press 1 - 4 to select/deselect partitions,
e.g. Press 1 to select Partition 1.


```
YES to Arm?
Area > 1*.. <
```

Partition 1 is now selected.

4 Press (Stay)




```
Premier 816
17:30.21 28/04
```

The selected partition(s) will arm immediately and the **Armed** light will flash.

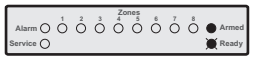
5 The selected partition(s) is now **Stay** armed.

Disarming Partitions

This option allows you to disarm one or more partitions.

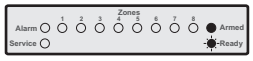
➤ **To disarm selected partitions, proceed as follows:**

1 Enter Access code ? ? ? ?




```
MENU for Options
NO to Disarm?
```

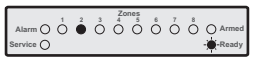
2 Press (Area)




```
NO to Disarm?
Area > **.. <
```

The **Ready** light will flash quickly.

3 Press 1 - 4 to select/deselect partitions,
e.g. Press 2 to select Partition 2.




```
NO to Disarm?
Area > *2.. <
```

Partition 2 is now selected for disarm.

4 Press (Disarm) Press (No)


```
Premier 816
17:30.21 28/04
```

5 The selected partitions are disarmed.

Changing to another Partition

Normally the remote keypad that you use will be assigned to a particular partition and therefore the zone and status lights will indicate information relevant to the assigned partition. However, you can temporarily switch the remote keypad to a different partition so that the zone and status lights indicate the information relevant to the partition that you have selected. Whilst in this mode you can also use your Access code to arm/disarm the partition you have selected (providing you have access to the selected partition).

In order to use the cross partitioning feature, it is recommended that the system is configured as follows:

- Cross partitioning must be enabled (see page 36).
- The user must be assigned to multiple partitions.
- The user should be set for "Local Partition Access Only", see page 65.
- The remote keypads should only be assigned to a single partition.

➤ **To change to another partition, proceed as follows:**

1 Press (Area)

2 Enter partition (1) - (4), e.g. Press (2) to select Partition 2.

The remote keypad will now indicate information relevant to the selected partition.

NOTE After changing to the selected partition, the remote keypad will only remain in the selected partition for 10 seconds after the last key press. However if an Access code is entered whilst the remote is in this mode, the remote keypad will remain in the selected partition for 1 minute after the last key press.

Bypassing Zones

Manually Bypassing Zones

Bypassing a zone prevents it from causing an alarm.

NOTE After manually bypassing a zone, the bypass will remain in place until the zone is manually unbypassed.

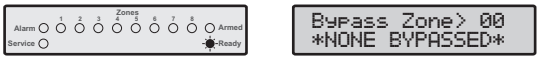
The bypass mode will time-out if no key is pressed for 60 seconds.

24 hour zones cannot be unbypassed if they are violated.

➤ To manually bypass zones, proceed as follows:

1 Enter Access code (?)(?)(?)(?)

2 Press (Bypass)



3 The **Ready** light will flash quickly. Enter the zone number (?)(?), e.g. Enter (0)(2) to select Zone 2.

4 The selected zone is now bypassed. Repeat step 3 to bypass additional zones.

5 Once the selected zones have been bypassed press:
(Yes)/(Arm) to Away arm
(Stay) to Stay arm
(Menu) to return to the normal disarmed state

NOTE If the Quick Bypass feature is enabled (see page 40) you can omit step 1 from the above procedure.

When one or more zones are bypassed the **Ready** light will flash and if the system is fitted with a *Premier RKP8/16 Plus* or LCD remote keypad then the **Bypass** light will also illuminate.

Unbypassing Zones

To manually unbypass zones, perform the manual bypass procedure on a zone that is already bypassed.

- 24 hour zones cannot be unbypassed if they are still violated.
- If the "Reinstate Bypassed Zones on Disarm" option is enabled (see page 36) all zones will automatically be unbypassed each time the system is disarmed.

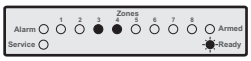
Group Bypass

The Group Bypass feature allows you to bypass a predefined group of zones. The alarm system has up to four groups, see page 28 on programming bypass groups.

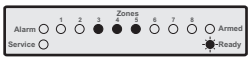
➤ **To Bypass a group of zones, proceed as follows:**

1 Enter Access code ? ? ? ?

2 Enter bypass group 1 - 4 followed by Bypass



3 The keypad will display the bypassed zones. If required, zones can be added or removed from the group by entering the required zone number ? ?, e.g. Enter 0 5 to add Zone 5.



4 The selected zone is now bypassed. Repeat step 3 to bypass additional zones.

5 Once the selected zones have been bypassed press:
Yes/Arm to Away arm
Stay to Stay arm
Menu to return to the normal disarmed state

NOTE If the Quick Bypass feature is enabled (see page 40) you can omit step 1 from the above procedure.

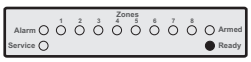
When one or more zones are bypassed the **Ready** light will flash and if the system is fitted with a *Premier RKP8/16 Plus* or LCD remote keypad then the **Bypass** light will also illuminate.

Quick Bypass and Arm

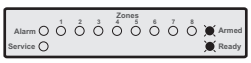
The Quick Bypass and Arm feature allows you to Bypass a predefined group of zones and Away or Stay arm the system. The alarm system has up to four groups, see page 28 on programming bypass groups.

➤ **To Quick Bypass a group of zones and Away arm, proceed as follows:**

1 Enter bypass group 1 - 4



2 Press Arm Press Yes



The **Armed** and **Ready** lights will flash and the exit tone will sound.

3 When the exit tone stops, the system is Away armed with the selected group of zones bypassed.

➤ **To Quick Bypass a group of zones and Stay arm, proceed as follows:**

1 Enter bypass group 1 - 4

2 Press Stay

The alarm system will arm immediately and the **Armed** and **Ready** lights will flash.

3 The system is Stay armed with the selected group of zones bypassed.

NOTE The Quick Arm feature must be enabled to use this feature (see page 40).

Reset Alarms

This function is used to reset any standing alarms and service faults. It is also used to reset detectors with a latched alarm indication, e.g., Smoke Detectors.

➤ **To Reset Alarms, proceed as follows:**

1 Enter Access code ? ? ? ?

2 Press Menu 0 Press Reset

3 The keypad will bleep and the alarm system will reset all latching detectors and attempt to clear any standing **Alarms** or **Service Faults**.

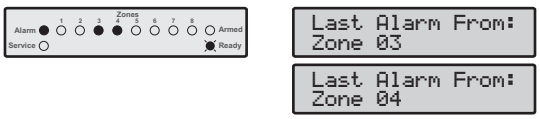
Last Alarm Log

The control panel has a memory that stores the zones that caused an alarm when the system was last armed.

➤ **To view the alarm memory, proceed as follows:**

1 Enter Access code ? ? ? ?

2 Press Menu 1



The keypad will display the zones that caused an alarm when the system was last armed.

3 Press Menu to return to the normal disarmed state.

Service Faults

The response to a Service Fault condition is programmed by the installer but is normally limited to the keypad buzzer. To silence the Service Fault alarm, enter your Access code.

A flashing **Service** light indicates a new fault condition. The alarm system cannot be armed whilst a new fault exists. The **Service** light will remain flashing until the new fault is acknowledged, after which it will revert to a steady yellow and the alarm system can be armed. The **Service** light will remain steady until **all** faults have been cleared.

After a new Service Fault has been acknowledged the **Service** light will revert to steady yellow and the alarm system can be armed. The **Service** light will remain steady yellow until **all** faults have been cleared.

AC Fail and Telephone Line Fault can each have a delay programmed. The **Service** light will turn steady yellow immediately on either of these faults but no Service Fault Alarm (transmission or audible alarm) will occur unless the delay expires.

NOTE If your installer has disabled AC fail acknowledgement the **Service** light will flash “rapidly” during an AC fail condition. The system can be armed without requiring acknowledgement of this fault.

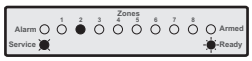
Acknowledging a New Service Fault

➤ New service faults can be acknowledged as follows:

1 Enter Access code ? ? ? ?

YES to Arm?
MENU for Options

2 Press Menu 2



System Faults:-
Press Menu/Reset

Line Fault
Press Menu/Reset

The keypad will display all Service Faults.

3 Press Menu or Reset to acknowledge the fault and return to the normal disarmed state.

View Service Faults

➤ Standing faults can be viewed as follows:

1. **Press the Menu key followed by the 2 key**.
2. The keypad will display any Service Faults (see tables).
3. On completion **press** the Menu key.

Service Faults Displayed on LED Keypads

Light	Fault Condition
1	**AC Fail**
2	**Telephone Line Fault**
3	**2-Wire Smoke Alarm**
4	**Box Tamper & Auxiliary Input:** **Press** 4 to view type, lights 1 - 5 indicate: 1 = Box Tamper 4 = Auxiliary Tamper * 2 = Auxiliary Tamper 5 = Bell Tamper * 3 = Auxiliary PA * = UK Bell Module
5	**Date or Time Lost**
6	**Zone Tamper/Trouble** **Press** 6 to view zone number
7	**Keypad Tamper/Removed** **Press** 7 to view keypad number
8	**Equipment Faults** **Press** 8 to view fault type, lights 1 - 8 indicate: 1 = Output 1 Fault 2 = Output 2 Fault 3 = Siren/Bell Fault 4 = 2-Wire Smoke Sensor Fault 5 = Auxiliary Fuse Failed 6 = Battery Fault 7 = Service Timer/Zone Soak Test Failed 8 = Com1 Fault or Fail To Communicate

Service Faults Displayed on LCD Keypads

LCD	Fault Condition
AC Fail	AC Fail
Line Fault	Telephone Line Fault
Smoke Alarm (2W)	2-Wire Smoke Alarm
Box/Aux Tamper	Box Tamper
Aux Tamper	Auxiliary Tamper (Aux Input)
Auxiliry Tamper	Auxiliary Tamper (UK Bell Module)
Bell Tamper	Bell Tamper (UK Bell Module)
Aux PA Alarm	Auxiliary PA (Aux Input)
Date/Time Loss	Date or Time Lost
Tamper Zone > 01	Zone Tamper/Trouble
Tamper Keypad> 1	Keypad Tamper/Removed
Output 1 Fault	Output 1 Fault
Output 2 Fault	Output 2 Fault
Siren Fault	Siren/Bell Fault
Smoke Sen. Fault	2-Wire Smoke Sensor Fault
Aux. Fuse Fault	Auxiliary Fuse Failed
Battery Fault	Battery Fault
Service Required	Service Timer/Zone Soak Test Failed
Coms Fault	Com1 Fault or Fail To Communicate

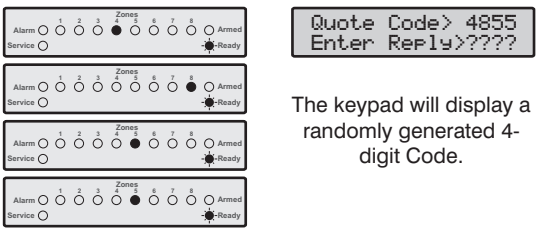
Anti-code Reset

This feature is normally used in the UK where users are not permitted to reset the panel following a communicated alarm. However, the user can reset the panel after entering a unique remote reset number, which is supplied by their installer or ARC.

➤ **To perform an Anti-code Reset, proceed as follows:**

1 Enter Access code ? ? ? ?

2 Press Menu 3



The keypad will display a randomly generated 4-digit Code.

3 Contact the ARC to obtain a Anti-code Reset number.

4 Enter the Anti-code Reset number given to you by the ARC ? ? ? ?.

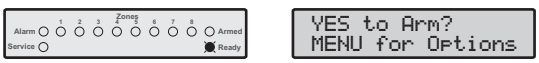
If the code is accepted, the keypad will sound an acceptance tone and the system will reset and return to the normal disarmed state.

Toggle Chime On and Off

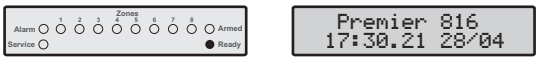
When a zone is enabled for Chime the keypad will generate a Chime tone every time the zone is violated. This function allows you to turn the Chime feature on and off.

➤ **To toggle Chime on and off, proceed as follows:**

1 Enter Access code ? ? ? ?



2 Enter Menu 4 Press Chime



3 If Chime was off, it will turn on and the keypad will sound the Chime tone. If Chime was on, it will turn off and the keypad will sound the acceptance tone.

Change User Code

All users of the alarm system can change their own Access code number.

➤ **To change your Access code, proceed as follows:**

1 Enter Access code ? ? ? ?

2 Enter Menu 5

Enter new code ? ? ? ?

3 If the code is 4 or 5 digits **press** the Arm/Yes key to accept.

4 Re-enter new code ? ? ? ?

5 The keypad will sound an acceptance tone if the new Access code was accepted. If you hear an error tone (low), please repeat from step 1.

View Log (LCD Only)

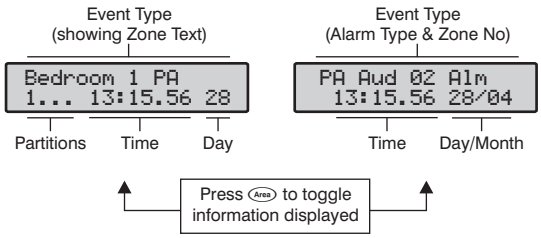
The control panel has an Event Log, which stores all system activity i.e., users entering their codes to arm and disarm the system, alarm events, faults etc. Each event is time and date stamped.

➤ **To view the Event Log, proceed as follows:**

1 Enter Access code ? ? ? ?

2 Enter Menu 6

3



4 Press ↕ to scroll up and down through the log. Press Menu to when finished.

Abort Communications

This option aborts any communications to the Alarm Receiving Centre.

➤ **To Abort Communications, proceed as follows:**

1 Enter Access code ? ? ? ?

2 Enter Menu 7

3 The keypad will bleep and the alarm system will abort all communications to the Alarm Receiving Centre.

6. Specifications

Control Panel

Power Supply

Maximum Current Rating

16.5V$_{AC}$, 25VA transformer:	1 A$_{DC}$
16.5V$_{AC}$, 40VA transformer:	1.5A$_{DC}$
Ripple:	<5%

Standby Battery

Maximum Capacity:	7Ah (See Safety Note 3, 4 & 5)
Recharge Time:	24 Hours
Low Voltage Alarm:	10.5V
Deep Discharge Cut-off:	9.5V

Electrical

Current Consumption

Quiescent Current:	<50mA
Alarm:	<150mA

Fuses

Mains (Factory Fit 230V$_{AC}$ Transformer):	125mA, 250V, 20mm (See Safety Notes 1 & 2)
Mains (Factory Fit 115V$_{AC}$ Transformer):	250mA, 250V, 20mm (See Safety Notes 1 & 2)
Battery:	1.6A, 250V, 20mm
Auxiliary:	1A, 250V, 20mm
Siren:	1A, 250V, 20mm
Data:	1A, 250V, 20mm

Zones

Number:	8
EOL Resistor Value:	3K3

Panel Outputs

O/P 1 - Supervised:	1A switched to 0V
O/P 2 - Supervised:	1A switched to 0V
O/P 3 - 8:	100mA switched to 0V

Siren Output (Supervised)

Speaker Mode:	Minimum load 4Ω
Bell Mode:	1A switched to 0V
2-Wire Smoke Detectors:	ESL429CT System Sensor 2100TS

Onboard Communicator

Protocols:	Pulse Format, Express Format, Fast Format, Contact ID, SIA Level 2/3, Pager and Mobile Phone
Dialling Formats:	Pulse or DTMF
REN:	1
Approval:	CTR21, DPT-TE-001

Environmental

Operating Temperature:	-10°C to +55°C +14°F to +131°F
Maximum Humidity:	95% non-condensing
EMC Environment:	Residential/Commercial/Light Industrial or Industrial

Physical

Dimensions:	282mm x 225mm x 80mm

Identifying the Control Panel Type

Each PCB has bar code label that includes the product type code and serial number:

Type Code	Description
FOT	Premier 412
IFT	Premier 412 with ISDN Communicator
FTC	Premier 412 with 700mA Battery Charger
NFT	Premier 412 with 900mA Battery Charger
SAF	Premier 412 with DPT-TE-001 Communicator
EOS	Premier 816
IFS	Premier 816 with ISDN Communicator
ESC	Premier 816 with 700mA Battery Charger
NES	Premier 816 with 900mA Battery Charger
SPL	Premier 816 with DPT-TE-001 Communicator
CPL	Premier 816 Plus
ETT	Premier 832
ITT	Premier 832 with ISDN Communicator
TTN	Premier 832 with 900mA Battery Charger
SET	Premier 832 with DPT-TE-001 Communicator

Remote Keypads

Electrical

Operating Voltage:	9 - 13.7VDC

Current Consumption

Nominal:	35mA
When fully back lit:	85mA

Zone Indicators

Premier RKP4/8/16:	LED (4/8/16)
Premier RKP8/16 Plus:	LED (8/16)
Premier LCD/LCDL:	32 Character (Standard/Large)

Environmental

Operating Temperature:	-10°C to +55°C +14°F to +131°F
Maximum Humidity:	95% non-condensing
EMC Environment:	Residential/Commercial/Light Industrial or Industrial

Physical

Dimensions:

Premier RKP4/8/16	140mm x 105mm x 35mm
Premier RKP8/16 Plus/LCD	145mm x 115mm x 30mm
Packed Weight:	380g

Remote Zone Expander

Electrical

Operating Voltage:	9 - 13.7V_{DC}
Current Consumption	
Nominal:	35mA
In Alarm with Speaker:	180mA
Zones	
Number:	8
EOL Resistor Value:	3K3
Speaker Output:	Minimum load 4Ω
Outputs	
O/P 1 & OP 2:	100mA switched to 0V

Environmental

Operating Temperature:	-10°C to +55°C +14°F to +131°F
Maximum Humidity:	95% non-condensing
EMC Environment:	Residential/Commercial/Light Industrial or Industrial

Physical

Dimensions:	145mm x 115mm x 30mm
Packed Weight:	260g approx.

Local Zone Expander

Electrical

Operating Voltage:	9 - 13.7V_{DC}
Current Consumption:	35mA
Connection:	Plugs onto control panel
Zones	
Number:	8
EOL Resistor Value:	3K3

Environmental

Operating Temperature:	-10°C to +55°C +14°F to +131°F
Maximum Humidity:	95% non-condensing
EMC Environment:	Residential/Commercial/Light Industrial or Industrial

Physical

Dimensions:	83mm x 50mm x 12mm
Packed Weight:	50g

Safety Notes

1. Mains voltage is not adjustable when transformer is factory fitted - see label on transformer.
2. Removal of the factory fitted transformer is prohibited and will invalidate the warranty.
3. Only use batteries of the specified type.
4. Dispose of used batteries safely according to the manufacturer's instructions.
5. Locate the battery inside the panel space provided.
6. This equipment is designed for dry indoor use only.
7. When replacing a fuse always observe the specified rating and type - failure to do so is dangerous and will invalidate the warranty. Fuses should comply with IEC 127.
8. The press-seal bag must not be stored inside the panel.

European Standards

The *Premier 412/816/832* conforms to the European Union (EU) Low Voltage Directive (LVD) 73/23/EEC (amended by 93/68/EEC) and Electro-Magnetic Compatibility (EMC) Directive 89/336/EEC (amended by 92/31/EEC and 93/68/EEC).

The CE mark indicates that this product complies with the European requirements for safety, health, environmental and customer protection.

This product is suitable for use in systems designed to comply with PD 6662: 2004 (EN 50131-1: 2004) at grade 2 and environmental class II.

EN 50131-1/6 and PD 6662 Compliance

In order to comply with the requirements of EN 50131-1, EN 50131-6 and PD 6662 the following programming and system configuration must be implemented:

- EN 50131-1 Requirements must be programmed as “Enabled”, see page 36.
- The “Permanent Keypad Status Display” option must be programmed to “Disabled” for all remote keypads, see page 40. In addition the “Courtesy Delay” timer must not be set above 180 seconds, see page 34.
- The “Partition Entry Delay” timers must not be programmed above 45 seconds, see page 30.
- The “Partition Bell Delay” timers must not be programmed above 10 minutes, see page 30.
- The “Partition Bell Duration” timers must be programmed between 2 and 15 minutes, see page 30.
- “Quick Arm”, “Quick Disarm” and “Quick Bypass” option must be programmed to “Disabled” for all remote keypads, see page 40.

- The “Tamper Alarms Cause a Trouble While Disarmed” option must be “Enabled”, see page 35.
- Do not fit more than 10 unpowered detectors per zone.
- Do not fit more than one non-latching powered detector per zone.
- Do not mix unpowered detectors and non-latching detectors on a zone.
- For grade 2 installations a battery standby time of 12 hours is required. In order to comply with this requirement the maximum current that can be drawn from the system is as follows:

Transformer	Standby Battery	Max Current
16.5V$_{AC}$, 25VA	7.0Ah	600mA
16.5V$_{AC}$, 40VA	17.0Ah	1.3A

Warranty

All Texecom products are designed for reliable, trouble free operation. Quality is carefully monitored by extensive computerised testing. As a result the control panel is covered by a two-year warranty against defects in materials or workmanship.

As the control panel is not a complete alarm system but only a part thereof, Texecom cannot accept responsibility or liability for any damages whatsoever based on a claim that the control panel failed to function correctly.

Due to our policy of continuous improvements Texecom reserve the right to change specification without prior notice.

7. Quick Reference Guide

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3 d e f 3 D E F	9 w x y z 9 W X Y Z	
4 g h I 4 G H I	0 Space 0 , # *	
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6	Chime Tones from Keypad	
7	Entry Tones from Keypad	
8	Exit Tones from Keypad	
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1	Enable Keypad Zones (*RKP8/16 Plus* & *Premier LCD/LCDL*)	
2	Disable Keypad Lid Tamper	
3	Zone Shift by 4	
4	Zone Shift by 8	
5	Zone Shift by 16	
	Programming Remote Expanders	
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3	Partition 3 Operation	
4	Partition 4 Operation	
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2	Burglary Alarm Tones from Expander	
3	Trouble Tones from Expander	
4	Acceptance Tones from Expander	
5	Error Tones from Expander	
6	Chime Tones from Expander	
7	Entry Tones from Expander	
8	Exit Tones from Expander	
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62	**Expander 1 Outputs**	46
63	**Expander 2 Outputs**	46
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1 System Output Types

00 Courtesy	17 Output 2 Fault
01 Successful Transmission	18 Siren/Bell Fault
02 Log 80% Full	19 Smoke Sensor Fault
03 Program Mode Selected	20 Auxiliary Fuse Fault
04 Download In Progress	21 Battery Fault
05 Timed Arming Countdown	22 Service Required/Test Fail
06 Zone Soak Test Active	23 Fail To Communicate
07 Zone Soak Test Failed	24 Control Timer 1 Active
08 AC Fail	25 Control Timer 2 Active
09 Telephone Line Fault	26 Control Timer 3 Active
10 Smoke Alarm	27 Control Timer 4 Active
11 Box/Auxiliary Tamper	28 PC Output 1
12 Date Time Loss	29 PC Output 2
13 Zone Trouble/Tamper	30 Walk Test
14 Keypad Tamper/Removed	31 Confirmed Alarm
15 Service Fault	32 ARC 2 Active
16 Output 1 Fault	33 Zones Locked Out

2 Partition Output Types

00 PA Alarm	19 Bypass
01 Duress Alarm	20 Sensor Reset on Exit
02 Burglar Alarm	21 Sensor Reset on Reset
03 Medical Alarm	22 Single Pulse on Arming
04 24Hr - Water Alarm	23 Double Pulse on Arming
05 24Hr - Gas Alarm	24 Chime
06 24Hr - Low Temp Alarm	25 Door Strike
07 24Hr - High Temp Alarm	26 Cross Zone Time Active
08 Tamper	27 Single Pulse on Disarming
09 Trouble	28 Reset Required
10 Fire	29 Acknowledgement Required
11 Fire Fault	30 Confirmed Alarm
12 Bell	31 Alarm Abort
13 Strobe	32 Away Armed
14 Entry	33 Away Armed/Exit
15 Exit	34 Detector Latch
16 Armed	35 Armed/Alarm
17 Stay Armed	36 Arm Failed
18 Ready	

3 Zone Output Types

01 - 32 Zone Mimic 01 - 32	33 - 64 Zone Alarm 01 - 32

Output Attributes

1 Partition 1	5 User Test
2 Partition 2	6 Inverted
3 Partition 3	7 Latching
4 Partition 4	8 Pulsed

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1 Enable On-Board Communicator		
2 Enable DTMF Dialling		
3 Switch to Pulse Dialling after 3rd Attempt		
4 Enable European Pulse Dialling		
5 Enable Auto Test Transmission		
6 Enable Cancel Call Waiting		
7 Enable Backup to Alarm Receiving Centre		
8 Enable Blind Dialling		
71	**ARC 1 Communicator Menu**	51

0 Primary and secondary telephone numbers

1 Account Numbers (partitions 1-4)

2 Protocol Type:
- 0 Disabled
- 1 Pulse Format
- 2 Express Format
- 3 Fast Format/Speech Module
- 4 Contact ID
- 5 SIA Level 2/3
- 6 Pager

3 Dial Attempts

4 Partition Options:
- 1 Report for Partition 1
- 2 Report for Partition 2
- 3 Report for Partition 3
- 4 Report for Partition 4

5 Reporting Options:
- 1 Priority Alarm and Cancel Events
- 2 Alarm and Cancel Events
- 3 Open and Close Events
- 4 Bypass and Unbypass Events
- 5 Maintenance Alarm Events
- 6 Tamper Alarm Events
- 7 Test Transmission Events
- 8 Restore Events

6 Pulse Format Options:
- 1 Use 1900Hz Carrier
- 2 Use 40 PPS Baud Rate
- 3 Enable Parity
- 4 Use 2 Digit Events
- 5 Use 2300Hz Handshake
- 6 Use 2300Hz Kiss-Off
- 7 Use Fast/Slow Format

7 Fast Format Reporting Channels
- 1 Report Channel 1
- 2 Report Channel 2
- 3 Report Channel 3
- 4 Report Channel 4
- 5 Report Channel 5
- 6 Report Channel 6
- 7 Report Channel 7
- 8 Report Channel 8

8 Protocol Options:
- 1 Disable SIA Modifier Blocks/Enable Speech Module
- 2 Disable Events for Each Partition
- 3 Pager Terminator = * (Star)
- 4 Send Pager Terminator Twice/Send SIA Text
- 5 Pager DTMF Tones = 500mS
- 6 Disable Zone Restorals
- 7 Communication Acknowledgement Tone
- 8 Connect via IP

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1	Report Restore on Channel 1	
2	Report Restore on Channel 2	
3	Report Restore on Channel 3	
4	Report Restore on Channel 4	
5	Report Restore on Channel 5	
6	Report Restore on Channel 6	
7	Report Restore on Channel 7	
8	Report Restore on Channel 8	
74	**Fast Format Open/Close Channels**	55
1	Report Open/Close on Channel 1	
2	Report Open/Close on Channel 2	
3	Report Open/Close on Channel 3	
4	Report Open/Close on Channel 4	
5	Report Open/Close on Channel 5	
6	Report Open/Close on Channel 6	
7	Report Open/Close on Channel 7	
8	Report Open/Close on Channel 8	
75	**Cancel Call Waiting**	55
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76	**Download Menu**	56
0	**Download Options:**	
1	Enable Attended Download	
2	Enable Unattended Call Back	
3	Enable 2-Call Answer Phone Defeat	
4	Restrict Download when Armed	
5	Download when Part Armed	
6	Disconnect Telephone Line	
1	**Download Telephone No**	
2	**UDL Password**	
3	**Call Back Attempts**	
4	**Ring Count**	
5	**Com1 Device Type**	
6	***ComIP* Address and Port**	
7	***ComIP* Gateway**	
8	***ComIP* Subnet Mask**	
	Programming Reporting Codes	
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78	**Zone Bypass/Unbypass Codes**	61
79	**Non Zone Alarm/Restore Codes**	61
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81	**User Options 1**	64
1	Enable for Partition 1	
2	Enable for Partition 2	
3	Enable for Partition 3	
4	Enable for Partition 4	
5	Allow Arming	
6	Allow Bypassing	
7	Allow Disarming	
8	Allow User Functions	

Menu	Function	Page
82	**User Options 2**	64
1	Enable One Time Use Access Code	
2	Time Lock Code with Control Timer 1	
3	Enable Open Reporting	
4	Enable Close Reporting	
5	Enable User as Duress Code	
6	Activate Door Strike Output	
7	Allow Global Bell/Sounder Silence	
8	Disable Remote Access	
83	**User Options 3**	65
1	Allow Engineer Code Programming	
2	Allow NVM Locking	
3	Allow Engineer Programming	
4	Allow Test Call Transmission	
5	Allow Alarm/Fault Acknowledgement	
6	Allow User Programming	
7	Allow User Code Programming	
8	Local Partition Access Only	
84	**User Text**	65
1	. , ? ! 1 @ " - &	
2	a b c 2 A B C	
3	d e f 3 D E F	
4	g h I 4 G H I	
5	j k l 5 J K L	
6	m n o 7 M N O	
7	p q r s 7 P Q R S	
8	t u v 8 T U V	
9	w x y z 9 W X Y Z	
0	Space 0 , # *	
↕	Move Left/Right	
Reset	Backspace (delete)	
85	**Program Standard Users**	65
86	**Default ALL Users**	65
	System Tests and Utilities	
90	**Walk Test**	67
91	**Test Speakers and Outputs**	67
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2	Test Bells	
3	Test Strobes	
4	Test Outputs	
5	Test LCD Display	
92	**Send Test Call**	67
93	**Enable Remote/Engineer Access**	67
94	**Start Call Back**	67
95	**Program Time**	67
96	**Program Date**	67
97	**Program Banner Text**	67
1	. , ? ! 1 @ " - &	
2	a b c 2 A B C	
3	d e f 3 D E F	
4	g h I 4 G H I	
5	j k l 5 J K L	
6	m n o 7 M N O	
7	p q r s 7 P Q R S	
8	t u v 8 T U V	
9	w x y z 9 W X Y Z	
0	Space 0 , # *	
↕	Move Left/Right	
Reset	Backspace (delete)	
98	**Print 100 Events**	67
99	**Log Off Engineer**	67

Service Faults Displayed on LED Keypads	
Light	**Fault Condition**
1	**AC Fail**
2	**Telephone Line Fault**
3	**2-Wire Smoke Alarm**
4	**Box Tamper & Auxiliary Input:** **Press** (4) to view type, lights 1 - 5 indicate: 1 = Box Tamper 4 = Auxiliary Tamper * 2 = Auxiliary Tamper 5 = Bell Tamper * 3 = Auxiliary PA * = UK Bell Module
5	**Date or Time Lost**
6	**Zone Tamper/Trouble** **Press** (6) to view zone number
7	**Keypad Tamper/Removed** **Press** (7) to view keypad number
8	**Equipment Faults** **Press** (8) to view fault type, lights 1 - 8 indicate: 1 = Output 1 Fault 2 = Output 2 Fault 3 = Siren/Bell Fault 4 = 2-Wire Smoke Sensor Fault 5 = Auxiliary Fuse Failed 6 = Battery Fault 7 = Service Timer/Zone Soak Test Failed 8 = Com1 Fault or Fail To Communicate

Service Faults Displayed on LCD Keypads	
LCD	**Fault Condition**
AC Fail	AC Fail
Line Fault	Telephone Line Fault
Smoke Alarm (2W)	2-Wire Smoke Alarm
Box/Aux Tamper	Box Tamper
Aux Tamper	Auxiliary Tamper (Aux Input)
Auxiliry Tamper	Auxiliary Tamper (UK Bell Module)
Bell Tamper	Bell Tamper (UK Bell Module)
Aux PA Alarm	Auxiliary PA (Aux Input)
Date/Time Loss	Date or Time Lost
Tamper Zone > 01	Zone Tamper/Trouble
Tamper Keypad> 1	Keypad Tamper/Removed
Output 1 Fault	Output 1 Fault
Output 2 Fault	Output 2 Fault
Siren Fault	Siren/Bell Fault
Smoke Sen. Fault	2-Wire Smoke Sensor Fault
Aux. Fuse Fault	Auxiliary Fuse Failed
Battery Fault	Battery Fault
Service Required	Service Timer/Zone Soak Test Failed
Coms Fault	Com1 Fault or Fail To Communicate

User Functions	
Enter User Code (?)(?)(?)(?) followed by	
(Menu)(0)	Reset Alarm/Troubles
(Menu)(1)	View Last Alarm
(Menu)(2)	View/Acknowledge Service Faults
(Menu)(3)	Anti-code Remote Reset
(Menu)(4)	Toggle Chime On and Off
(Menu)(5)	Change Own Passcode
(Menu)(6)	View Event Log (LCD Only)
(Menu)(7)	Abort Communications
(Menu)(9)	Select User Programming Mode

Notes

Notes

CE

Declaration of Conformity

(D0262-99 Rev02)

This declaration is valid for the following product:

Device Type: Intruder Alarm Control Panel - D0262

Model Numbers: Premier 412, Premier 412 ISDN, Premier 816, Premier 816 Plus, Premier 816 ISDN, Premier 832 Control Panels.

This is to confirm that the product meets the following product specifications:

EMC Directive 89/336/EEC (amended by 92/31/EEC & 93/68/EEC)

EN 55022: 1998 Emission Standard for Information Technology Equipment.

EN 50024: 1998 Immunity Standard for Information Technology Equipment.

EN 50130-4: 1996 Immunity Standard for Fire, Intruder and Social Alarm Systems.

LVD Directive 73/23/EEC (amended by 93/68/EEC)

Safety of Electrical Equipment

EN 60950: 2000 Safety of information technology equipment

Telecommunication

CTR21 Council Decision 98/482/EC for pan-European single terminal connection to the PSTN.

DPT-TE-001 Standard Specification for Telecommunication Equipment for Connection to the PSTN.

Intruder Alarm Systems

EN 50131-1: 2004 Intrusion Systems General Requirements - Security Grade 2, Environment Class II

PD 6662: 2004 Scheme for the application of European Standards for intruder alarm systems

DD 243: 2004 Installation and configuration of intruder alarm systems designed to generate confirmed alarm conditions - code of practice

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