

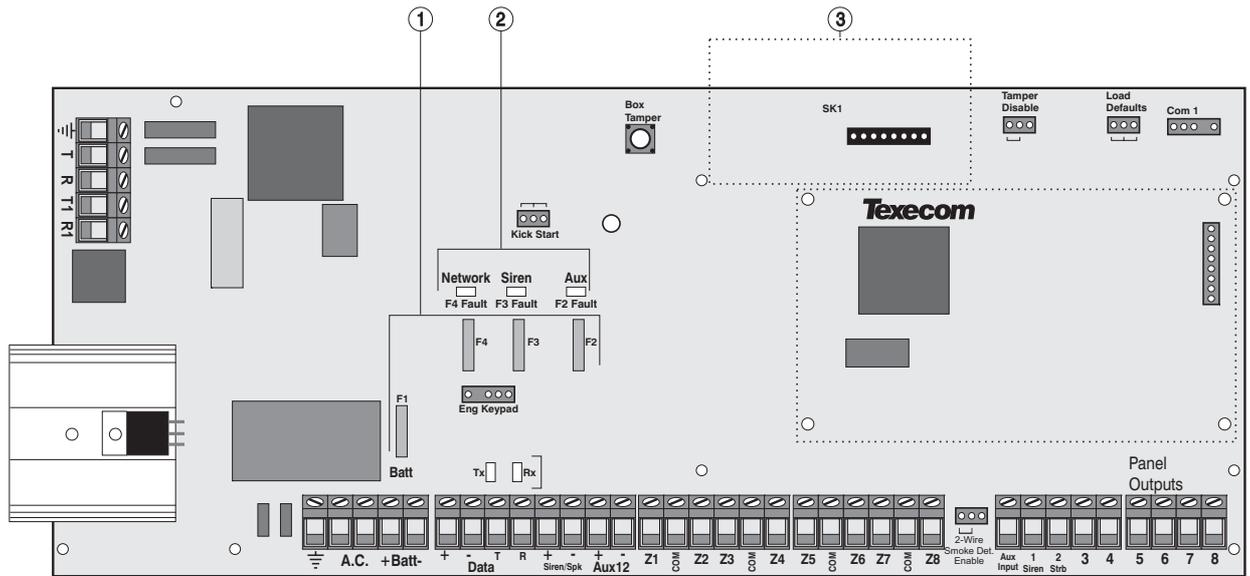
Premier 412/816/832

Introduction

This addendum provides additional information for *Premier 412/816* control panels fitted with version 9.x/10.x software and *Premier 832* control panels fitted with version 2.x/3.x software. It should be used in conjunction with the *Premier 412/816/832* Installation Manual (INS159-7).

New PCB Features

The figure below shows the PCB layout for the *Premier 412/816/832*. It should be used in conjunction with the PCB layout and information shown on pages 7 and 8 of the Installation Manual (INS159-7):



① 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

② Electronic Fuse Fault Indicator LEDs

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

③ 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.

Support for New Modules

The support for the following new modules has been incorporated:

ComIP Module (V9.0 onwards)

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 (V9.0 onwards)

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

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

Radio Receiver Module (V9.0 onwards)

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.

New Software Features

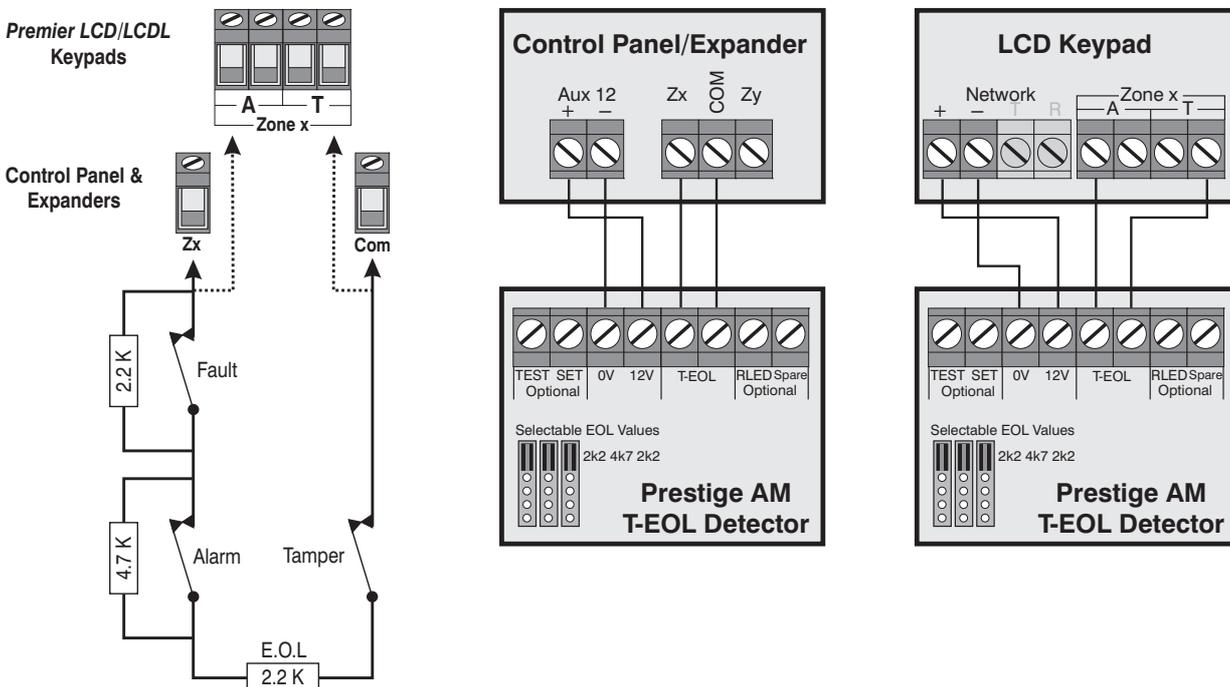
The following new features have been incorporated:

Menu 12: Zone Wiring (V10 onwards)

The Zone Wiring options as shown on page 25 of the Installation Manual have now been extended to include the following new option:

⑨ Triple EOL (T-EOL)

This wiring option is designed to be used with Texecom detectors that support T-EOL wiring. The figure below shows a typical wiring example:



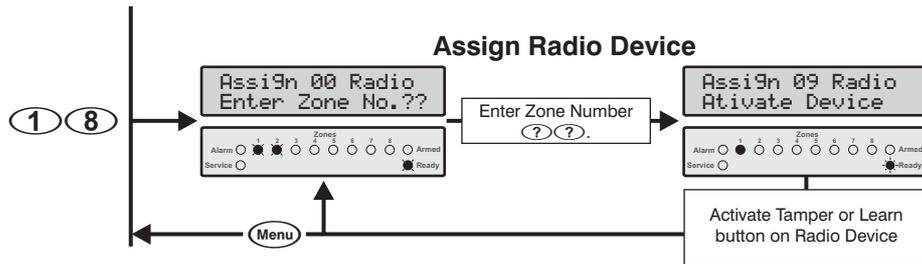
When the Triple EOL configuration is used the system will respond as follows:

Zone Status	Response
0 -1K	Short Circuit Tamper
1.1K - 4.0K	Secure
4.1K - 5.6K	Trouble (Fault)
5.7K - 8.0K	Active (Alarm)
8.1K - 20K	Trouble (Masked)
21K +	Open Circuit Tamper

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

Menu 18: Assign Radio Device to Zones (V9.0 onwards)

If the system is fitted with either a *RadioPlus* or *Inovonics* radio module this menu option is enabled and allows you to assign radio devices such as PIRs and Door Contacts to one of the available zones on the system.



All radio 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

Menu 28: Equipment Areas (V10.0 onwards)

The Equipment Areas as shown on page 30 of the Installation Manual have now been extended to include the following new option:

③ Mask 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 2.

Menu 30: System Timers (V9.0 onwards)

The System Timers as shown on page 33 of the Installation Manual have now been extended to include the following new timer:

①④ Poll IP Every

This timer controls how often the *ComIP* module (if fitted) polls the ARC software with a “Polling” message.

Partition Output Types (V9.0 onwards)

The Partition Output Types shown on pages 45-46 of the Installation Manual have been extended to include a new output type:

③⑥ Arm Failed

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

Menu 71.2: Protocol Type (V9.0 onwards)

The Protocol Types as shown on pages 51 of the Installation Manual have now been altered as follows:

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 Menu 71.8 below) 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 43 of the Installation Manual.

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.

Menu 71.8: Protocol Options (V9.0 onwards)

The Protocol Options as shown on pages 53 of the Installation Manual have now been altered 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.

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).

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.

Menu 76.0: Download Options (V9.0 onwards)

The Download Options as shown on page 57 of the Installation Manual have been extended to include the following option:

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 65. 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.

Menu 76.5: Com1 Device Type (V9.0 onwards)

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

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

Menu 76.6: ComIP Address & Port (V9.0 onwards)

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.

Menu 76.7: ComIP Gateway Address (V9.0 onwards)

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.

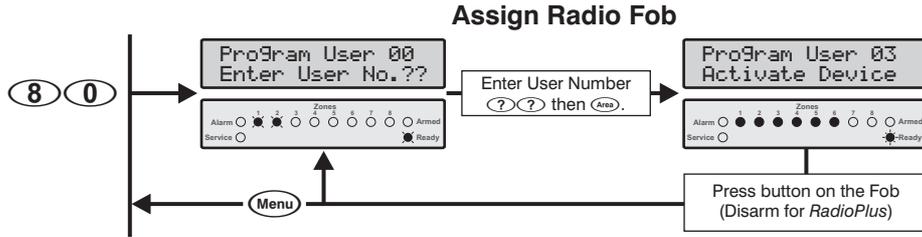
Menu 76.8: ComIP Subnet Mask (V9.0 onwards)

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

Menu 80: Assign Radio Fob to User (V9.0 onwards)

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 fobs to a user on the system.



Menu 82: User Options 2 (V9.0 onwards)

User Options 2 as shown on page 62 of the Installation Manual have been extended to include the following new option:

(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.

Operational Changes

Keypad Fire/Medical/PA Reporting Codes (V9.0 onwards)

When using Contact ID or SIA these events are now reported with the zone number set to 000.

Test Calls (V9.0 onwards)

If the panel is fitted with a *Speech Module*, keys (1) and (2) can be used to switch between message 1 and 2 during a test call (Menu 92).

Defaulting the Event Log (V9.5 onwards)

When loading the panel defaults the event log WILL only be defaulted if the “Load Default” pins remain shorted after the panel parameters have been defaulted.

Engineer’s Keypad Support (V9.5 onwards)

An Engineer’s keypad can be temporarily plugged onto the control panel to allow system programming.

Show Next Available User (V9.5 onwards)

When using an LED keypad it is now 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.

Show Zones Mapped to Radio Devices (V9.5 onwards)

This option is only available on systems fitted with LCD remote keypads. When using menu 12 (Zone Wiring), the LCD display will show the wiring type as “RadioPlus” if the zone is mapped to a detector.

Radio Supervision (V10 onwards)

The radio supervision timer has been changed from 30 minutes to 120 minutes. If the “EN50131-1 requirements option” is enabled (Menu 35.6), 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.

Com Port Change Logged (V10 onwards)

When the com port device type is changed (Menu 76.5), the panel now logs the new device type.

RadioPlus Magnetic Contact (V10 onwards)

The alarm response from the *RadioPlus* Magnetic Contact inputs are as follows:

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

EN50131-1 is enabled and disabled in Menu 35 option 6.