



EN54 APPROVED 2 - 12 ZONE CONVENTIONAL CONTROL PANEL

Quick Start Guide





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13

Model Number CPD Number

Excel 2-12 zone conventional panel XLEN-2/4/6/8/12

2831-CPR-F0671

European Standard EN54-2: 1997 + A1: 2006 Control and indicating equipment for fire detection and fire alarm systems for buildings.

Provided Options (with requirements): Output to fire alarm devices, dependency types 'A', 'B' & 'C', delays to outputs, test condition

European Standard EN54-4: 1997 + A1: 2002 + A2: 2006 Power supply equipment for fire detection and fire alarm systems for buildings.

IMPORTANT NOTE

PLEASE READ THIS MANUAL BEFORE HANDLING THE EQUIPMENT AND OBSERVE ALL ADVICE GIVEN IN IT

THIS PARTICULARLY APPLIES TO THE PRECAUTIONS NECESSARY TO AVOID







IMPORTANT SAFETY NOTES

The panel is safe to operate provided it has been installed in compliance with the manufacturer's instructions and used in accordance with this manual.

Hazardous voltages are present inside the panel—DO NOT open it unless you are qualified and authorised to do so. There is no need to open the panel's enclosure except to carry out commissioning, maintenance and remedial work. This work must only be carried out by competent service personnel who are fully conversant with the contents of the panel's installation manual and have the necessary skills for maintaining this equipment.

This fire alarm system requires periodic checks as specified in BS 5839 Part 1 It is the responsibility of the system user to ensure it is regularly serviced and maintained in good working order.

Disclaimer

No responsibility can be accepted by the manufacturer or distributors of this fire alarm panel for any misinterpretation of an instruction or guidance note or for the compliance of the system as a whole. The manufacturer's policy is one of continuous improvement and we reserve the right to make changes to product specifications at our discretion and without prior notice. E & O E.



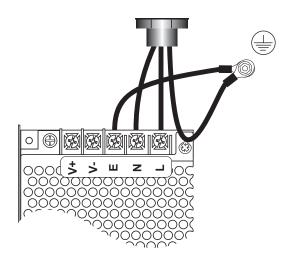
MAINS CONNECTIONS

Do not connect the mains supply to the panel until you are fully conversant with the layout and features of the equipment.

A rating plate is attached to the power supply module describing the nature of the supply permitted.

The incoming mains supply should be brought into the panel via one of the knockouts provided.

A suitable cable gland must be used to secure the outer sheath of the cable used. The earth must first be connected to the primary earth stud (peg) marked with a symbol, using a suitable ring crimp.

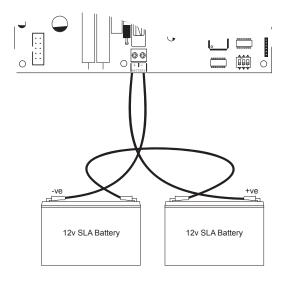


Sufficient earth lead should be left to allow Live and Neutral connections to be accidentally pulled from the terminal block while leaving the earth connection intact.

CONNECTING THE BATTERIES

Batteries of even very small capacity are capable of delivering very high currents which can cause fire or injury, therefore battery connections should be done with caution.

The panel is supplied with battery leads already connected to the battery terminals on the main PCB. These leads are coloured red for +ve and black for -ve.



2 x 12v batteries should be connected in series using the white jumper lead provided. See diagram.

To optimise the service life of the batteries, the battery charger output voltage varies with temperature.

N.B.

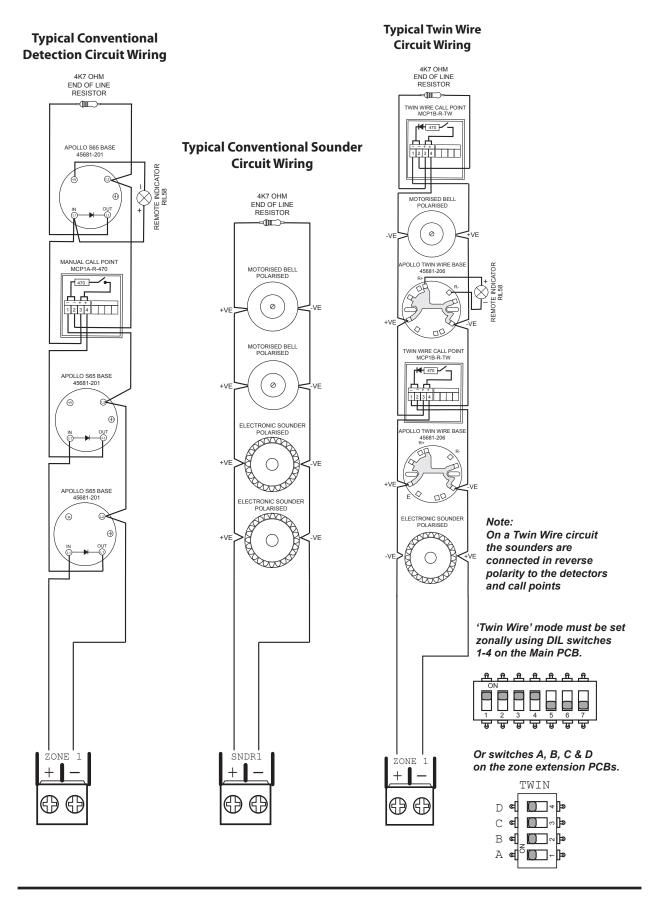
In the event of mains failure, the battery charger circuit will protect the batteries from full discharge by disconnecting them when they reach below 19v. When the mains supply is restored the batteries will be automatically reconnected.

NOTE:

If the mains is connected before the batteries, the panel will show a Power Supply fault for up to 1 minute until the monitoring cylce has finished polling. This is normal. If the fault doesn't clear after 1 minute, check connections.



GENERAL WIRING SCHEMATIC



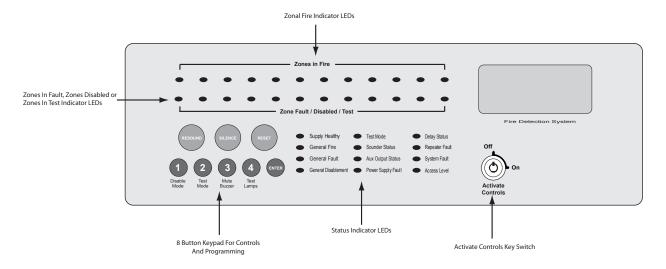


PROGRAMMING OPTIONS - SEE FULL MANUAL FOR FURTHER DETAILS

EN54 Sounder Resound Options Set zones to not resound alarms after an initial fire condition 1114 Delays to Outputs Apply delays to outputs in response to selected zones 2323 Input Functions Change the default functions of the Class Change and Alert inputs 4141 Output Programmability & Set panel outputs to be programmable, switch on fault latching, invert fault output Panel Output Zonal Responses Set how each output and sounder circuit responds for each zone (off, continuous or pulsing) Zone of Origin Setting Quick set codes for zone of origin or zonal sounder ringing for Twin Wire sounder circuits Panel Output Functional Options Change the default panel output & sounder circuit responses to 'Silence Alarms', 'Evacuate', 'Class Change', 'Alert' and 'Delay' Network Output Responses Set local output & relay responses to network fires 4224 Network Sounder Responses Set local sounder cct responses to network fires 4324, 3224 Comms PCB Output Functional Options Change the default comms PCB o/p responses to 'Silence Alarms', 'Evacuate', 'Class Change', 'Alert' and 'Delay' System Diagnostics Mode Tests system PCB config setup for fault diagnosis 3114	Option/Setting	Description	Code(s)
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Repeater Programming Repeater panel setup & programming 4443	Repeater Programming	Repeater panel setup & programming	4443



PANEL CONTROLS & INDICATIONS



Activate Controls

In normal standby mode the keypad controls are inactive to protect from unauthorised operation. Controls can be activated by using the 'Activate Controls' key switch or by entering a four digit code using the keypad.

The use of a code entry to activate the controls is enabled by default but can be disabled in the Level 3 engineering functions.

To activate the controls using the key switch

Turn the key clockwise to the 'On' position. The 'Access Level' indicator LED will light and all buttons on the keypad will now be operational. To deactivate the controls, turn the key back to the 'Off' position and the 'Access Level' indicator LED will extinguish.

If the key switch is in the 'On' position the keypad will remain active.

NOTE: It is not possible to remove the key in the 'On' position.

To activate the controls using the keypad

Enter the four digit code using buttons 1 - 4. The factory default code is 1-2-3-4 but can be changed in the engineering functions. After entering the four digit code press the 'ENTER' button. The 'Access Level' indicator LED will light and all buttons on the keypad will now be operational.

After activation by code entry, controls will automatically deactivate again after 2 minutes and the panel will return to standby mode.

The test lamps and mute buzzer functions are operational without the need to activate controls.



DISABLE MODE

Disable Mode is used to disable or isolate individual zone circuits or all sounder circuits, all auxiliary outputs and any delays to outputs.

To initialise Disable Mode firstly activate the controls by turning the key switch or by entering the four digit code. Then press and hold the Disable Mode button (1) for 3 seconds.

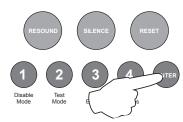
After 3 seconds the panel will bleep and the General Disablement LED and Zone 1 Fault LED will pulse slowly, indicating that Zone 1 is in disable selection mode.



Pressing the Disable Mode button again will move disable selection mode to Zone 2 and the Zone 2 Fault LED will be pulsing instead. Subsequent presses will move the selection to Zones 3 - 12, dependant on the number of zones fitted to the panel. I.e up to zone 4 on a 4 zone, 6 on a 6 zone, 8 on a 8 zone etc.

After the last available zone the next press will move the selection mode to the sounder circuits, indicated by the Sounder Status LED and then to the Aux outputs, indicated by the Aux Output Status LED and finally to the Delay LED. Pressing the button once more will move the selection back to Zone 1 again.

When the desired circuit, outputs or delays to be disabled is indicated by a slow pulsing LED, use the ENTER button to select it. Once selected the indicator LED will change to a rapid pulse. Pressing ENTER again will toggle the circuit between disabled and enabled. Then use Disable Mode button again to move to the next circuit. Any or all circuits, outputs or delays can be disabled simultaneously.



When all disablements have been set, press and hold the Disable Mode button for 3 seconds again. This will exit the disable selection mode and the panel will return to standby. All disabled circuits and the General Disablement will now be indicated by a steady LED.

To enable the circuits again, repeat the above process using the Disable Mode button to select the circuit and the ENTER button to remove the disablement.

Tip:

With the controls active, pressing the Disable Mode button briefly will reveal which circuits are disabled (as opposed to in test mode). This is useful if using Disable Mode and Test Mode at the same time.



TEST MODE

Test Mode is used when testing the fire alarm system. In test mode the devices in the zone(s) in test, detectors and call points etc, can be activated and the panel will automatically reset, enabling the system to be tested by one person. It is possible to test head removal monitoring and to test the system with or without the sounders.

To initialise Test Mode, firstly activate the controls by turning the key switch or by entering the four digit code. Then press and hold the Test Mode button (2) for 3 seconds.

After 3 seconds the panel will bleep and the Test Mode LED and Zone 1 Fault LED will pulse slowly, indicating that Zone 1 is in test selection mode. The Sounder Status LED will also be pulsing rapidly,

selection mode. The Sounder Status LED will also be pulsing rapidly, this indicates that the test will be **with** sounders. (Test mode without sounders is explained below)

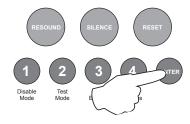
Pressing the Test Mode button again will move test selection mode to Zone 2 and the Zone 2 Fault LED will be pulsing instead. Subsequent presses will move the selection to Zones 3 - 12, dependant on the number of zones fitted to the panel. I.e up to zone 4 on a 4 zone, 6 on a 6 zone, 8 on a 8 zone etc..

After the last available zone the next press will move the selection mode to the sounder circuits, indicated by no Zone Fault LEDs on. This position selects whether or not the sounders will ring during test. Pressing the button once more will move the selection back to Zone 1 again.

When the desired zone to be tested is indicated by a slow pulsing LED, use the ENTER button to select

it. Once selected the indicator LED will change to a rapid pulse. Pressing ENTER again will toggle the zone between in and out of test. Then use Test Mode button again to move to the next zone. Any or all zones can be in test mode simultaneously.

When at the sounder status position, use the ENTER button to toggle between testing with or without sounders. A rapid pulse = with sounders (default), a slow pulse = without sounders.



When all zones to be tested have been selected, press and hold the Test Mode button for 3 seconds again. This will exit the test selection mode. All zones in test and the Test Mode will now be indicated by a steady LED.

To take zones out of test mode, repeat the above process using the Test Mode button to select the zone and the ENTER button to change the status.

Test Mode With Sounders

Activation of a call point or detector - sounders will pulse twice, device is automatically reset. Removal of a detector - sounders will pulse once.

Test Mode Without Sounders

Activation of a call point or detector - panel buzzer and LED response only, device is automatically reset.

Tip:

With the controls active, pressing the Test Mode button briefly will reveal which circuits are in test mode (as opposed to disabled). This is useful if using Disable Mode and Test Mode at the same time.



FAULT DIAGNOSIS

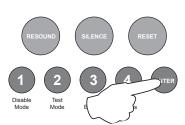
If the panel has detected a fault on the system the General Fault LED will be illuminated and the internal fault buzzer will sound. Secondary LEDs will also be illuminated depending on the location of the fault.

Pressing and holding the ENTER button will reveal more detailed information about the loction and type of fault.

This function will not work if the panel is in a fire condition. If no faults exist pressing the ENTER button will have no effect.

This function is operational only when controls are not active.

The following table shows details of the indications in fault diagnosis mode:



LED Indicator & State before pressing ENTER	LED Pulsing after pressing ENTER	LED Steady after pressing ENTER	LED Off after pressing ENTER	Location
Zone 1 Fire LED (off)	Sounder circuit 1 short circuit	Sounder circuit 1 open circuit	OK	Main PCB SNDR 1
Zone 2 Fire LED (off)	Sounder circuit 2 short circuit	Sounder circuit 2 open circuit	ОК	Main PCB SNDR 2
Zone 3 Fire LED (off)	Sounder circuit 3 short circuit	Sounder circuit 3 open circuit	ОК	High Spec Extension Zone Card
Zone 4 Fire LED (off)	Sounder circuit 4 short circuit	Sounder circuit 4 open circuit	ОК	High Spec Extension Zone Card
Zone 5 Fire LED (off)	Sounder circuit 5 short circuit	Sounder circuit 5 open circuit	ОК	High Spec Extension Zone Card
Zone 6 Fire LED (off)	Sounder circuit 6 short circuit	Sounder circuit 6 open circuit	ОК	High Spec Extension Zone Card
Zone 1 - 4 Fault/ Disabled/Test LED (pulsing)	Zone # short circuit	Zone # open circuit	(slow pulse) Zone # detector removed	Main PCB Zones 1 - 4
Zone 1 - 4 Fault/ Disabled/Test LED (steady)	N/A	N/A	Zone # disabled or in test mode	
Power Supply Fault LED (pulsing)	Mains failure	Battery failure or high impedance	Voltage fault	Main PCB

SCHEDULE OF TESTING

This Section To Be Used To Record ALL Weekly Tests Of The Fire Alarm System

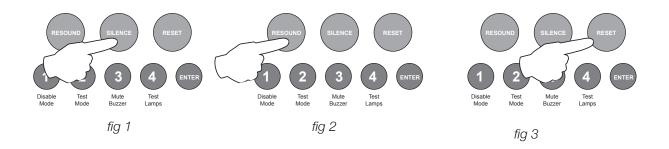
DATE &	DEVICE TESTED &	COMMENTS	INITIALS OF
TIME OF TEST	LOCATION	(IF ANY)	TESTER

USER INSTRUCTIONS

If an alarm condition is present YOU MUST FOLLOW YOUR NORMAL FIRE DRILL PROCEDURES.

A responsible person should then:-

- 1. Check the control panel to see which area or zone has caused the system to go into alarm. This will be indicated by a pulsing red LED on the front of the control panel.
- 2. Go to the area which has caused the alarm to check if a fire exists.
- 3. Only when it is safe to do so should the alarms be silenced. Activate the controls by turning the key switch or by entering the four digit code (see Activate Controls in the OPERATING section) and press the (blue) SILENCE ALARMS button (fig 1). To sound the alarms again press the (red) RESOUND button (fig 2).
- 4. In the event of a false alarm look for the device that has caused the alarm. A detector will have a red LED lit, or check to see if a call point glass is broken (if so replace the glass or call an engineer).
- 5. When fully satisfied that there is no fire, return to the control panel and press the (green) RESET button, (fig 3). The panel display should return to normal and only the green SUPPLY HEALTHY LED should be lit on the control panel.



If the system continues to false alarm, call an engineer

Fault Condition

If a buzzer is sounding in the control panel but the sounders or bells are not ringing, then there is either a fault on the system, or zones / sounders have been disabled. CALL AN ENGINEER

The internal fault buzzer can be silenced by pressing MUTE BUZZER (button 3 on the keypad). DO NOT RESET THE SYSTEM UNTIL AN ENGINEER HAS INVESTIGATED THE FAULT.



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