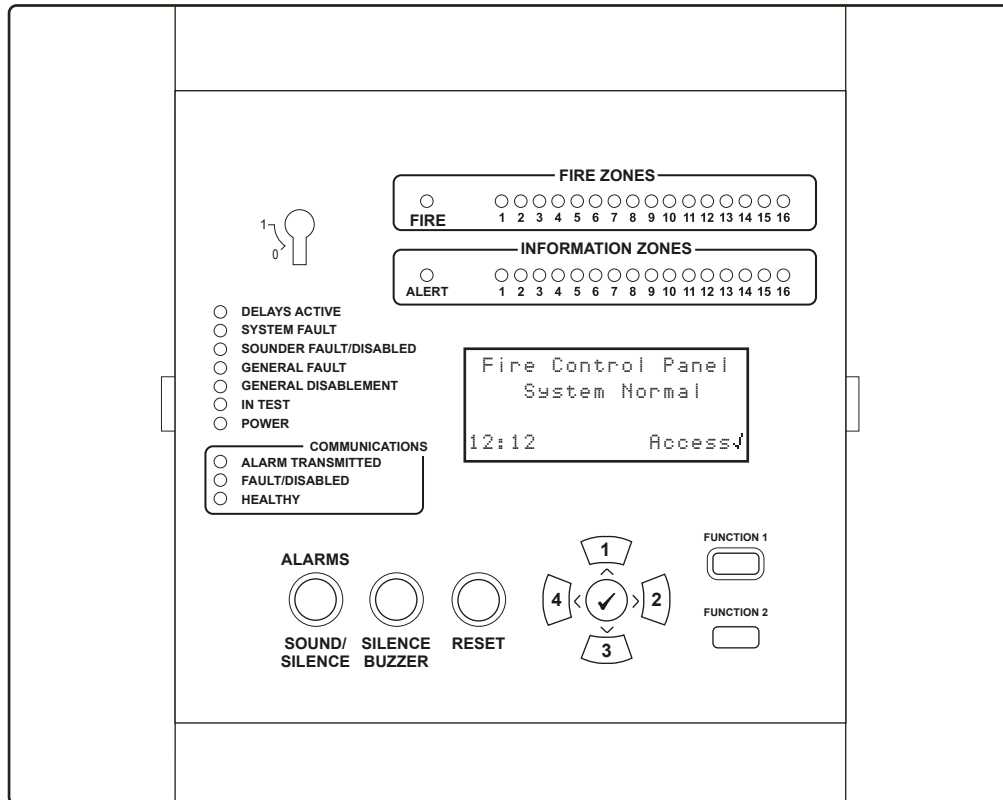


SmartCell



Wireless Control Panel Installation Guide

Part number	Product description
SC-11-1200-0001-99	Wireless Control Panel (230 VAC version)
SC-11-2200-0001-99	Wireless Control Panel (24 VDC version)
SC-11-1201-0001-99	Wireless Control Panel (No Comms Module) (230 VAC version)
SC-11-2201-0001-99	Wireless Control Panel (No Comms Module) (24 VDC version)

1 Pre installation



The installation must conform to applicable local installation codes and should only be installed by a fully trained competent person.



The procedures outlined in this installation guide must be carefully followed.



The wireless control panel includes components which are susceptible to damage from Electro Static Discharge (ESD). These components could be permanently damaged through routine handling, if precautions are not observed. Where handling is required, adequate earthing precautions should be taken, e.g. use an earthed wrist strap.



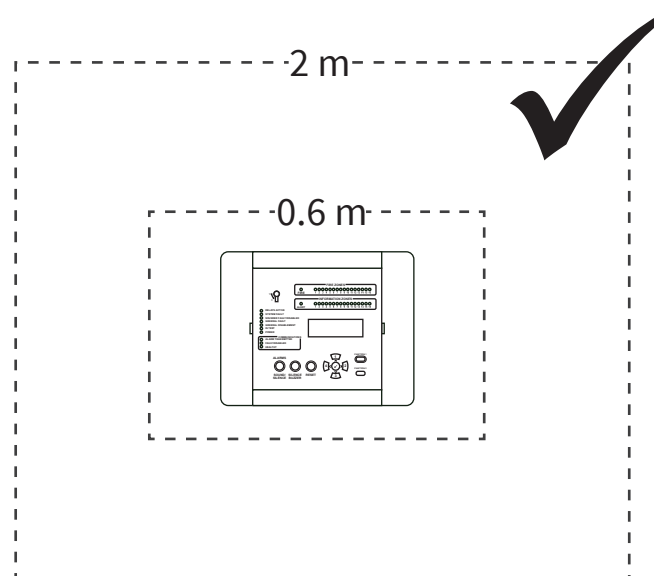
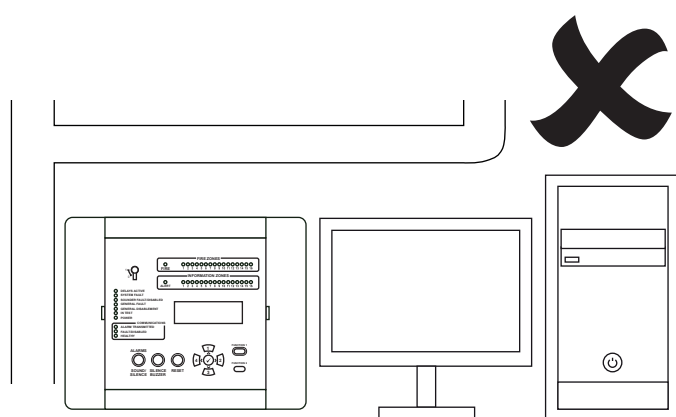
To ensure correct operation, products must be used within the specified environmental operating conditions.

2 Mounting location guidelines



For optimum wireless performance, the following must be observed:

- Ensure the control panel is not installed within 2 m of other wireless or electrical equipment.
- Ensure the control panel is not installed within 0.6 m of metal work.

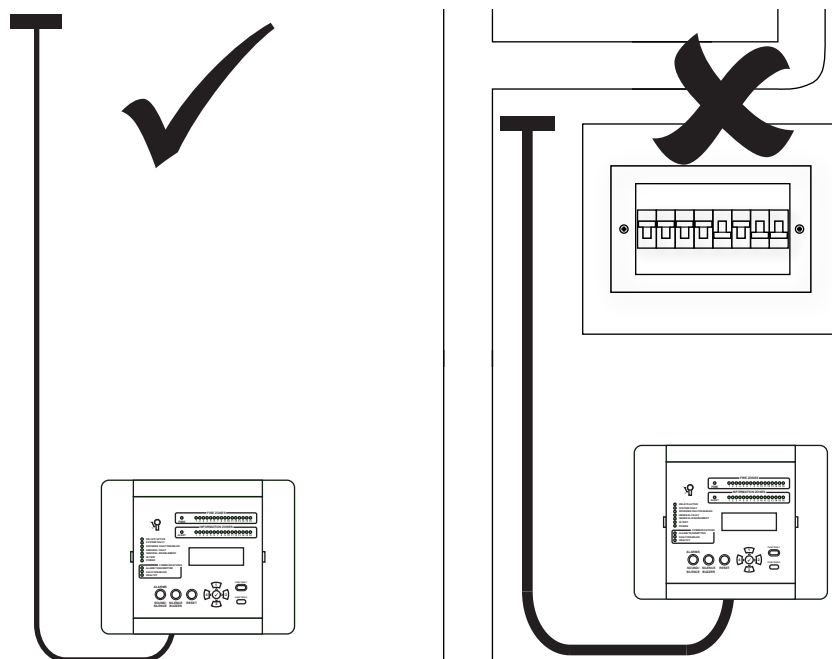


Never site the panel near metal or electrical equipment

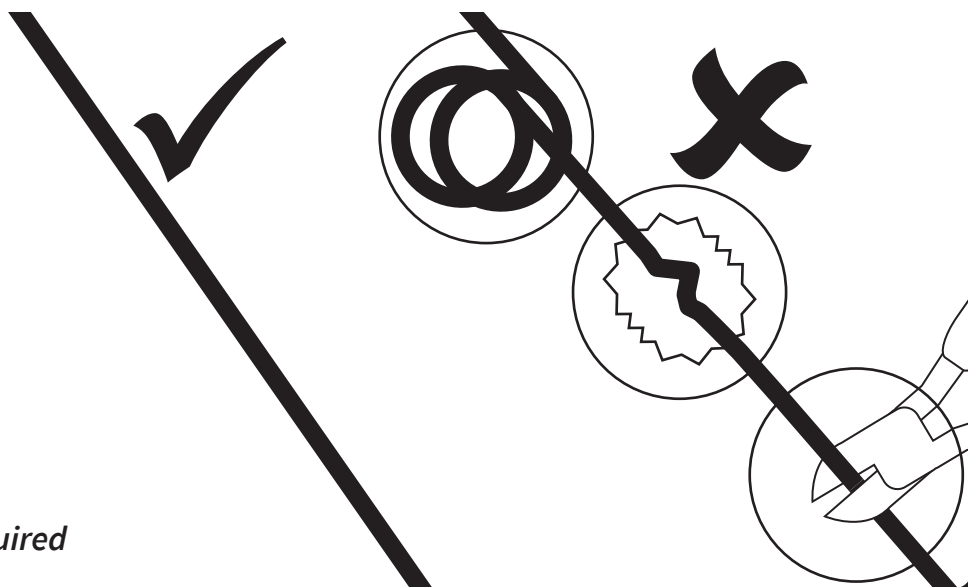
2 Mounting location guidelines (continued) *

If connecting to SmartCell services using 3G signalling; a T-bar aerial must be fitted.

- Mount the aerial away from electrical conduits / equipment & wireless products (including the control panel).



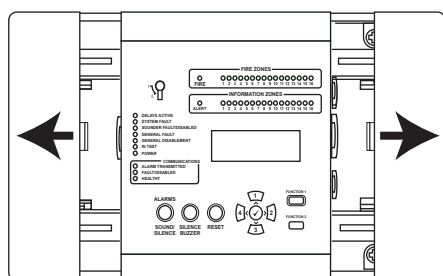
- Do not coil, crush or shorten the aerial's cable.



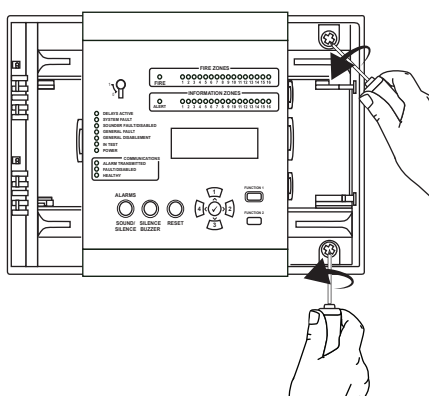
* Communications module required

3 Open control panel

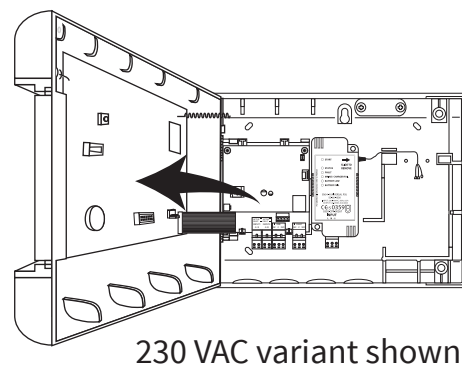
1. Unclip the side panels.



2. Loosen the two screws.

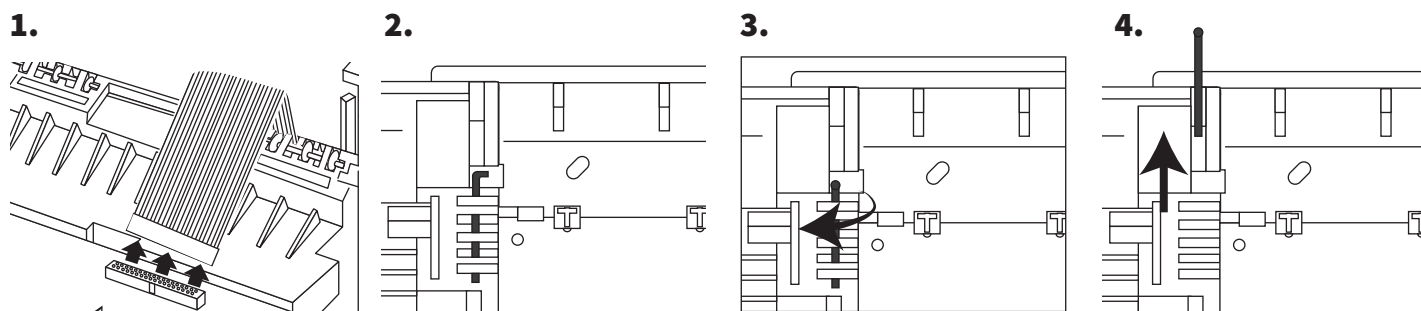


3. Open the door.



4 Optional door removal

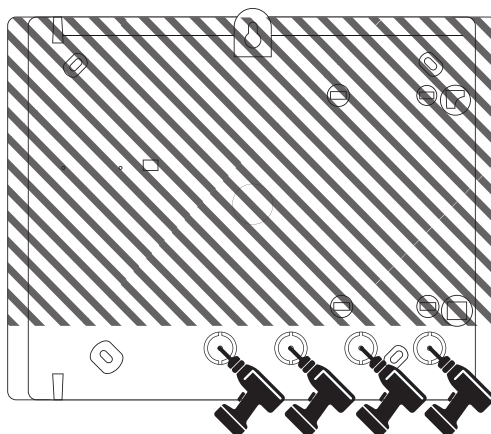
- Disconnect the ribbon cable.
- Turn and release the door hinges



5 Remove cable entry points

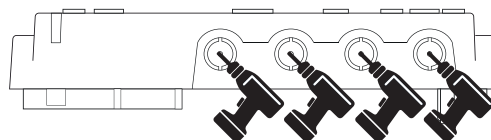
- Drill the cable entry points as necessary.


Rear side view



NO CABLE ACCESS AT THE TOP OF THE UNIT!

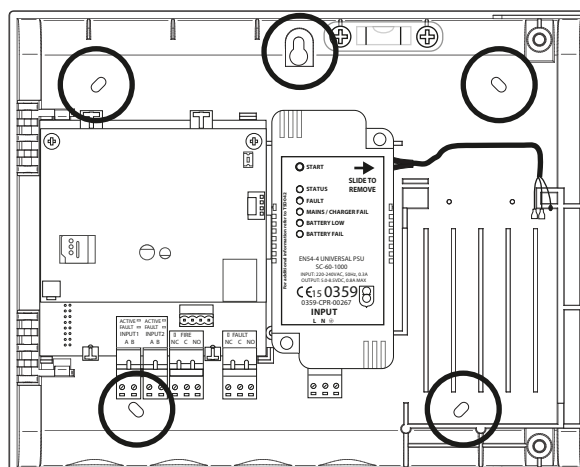
Under side view



 = Available entry point

6 Fix to the wall

- All five circled fixing positions are available for use as required.

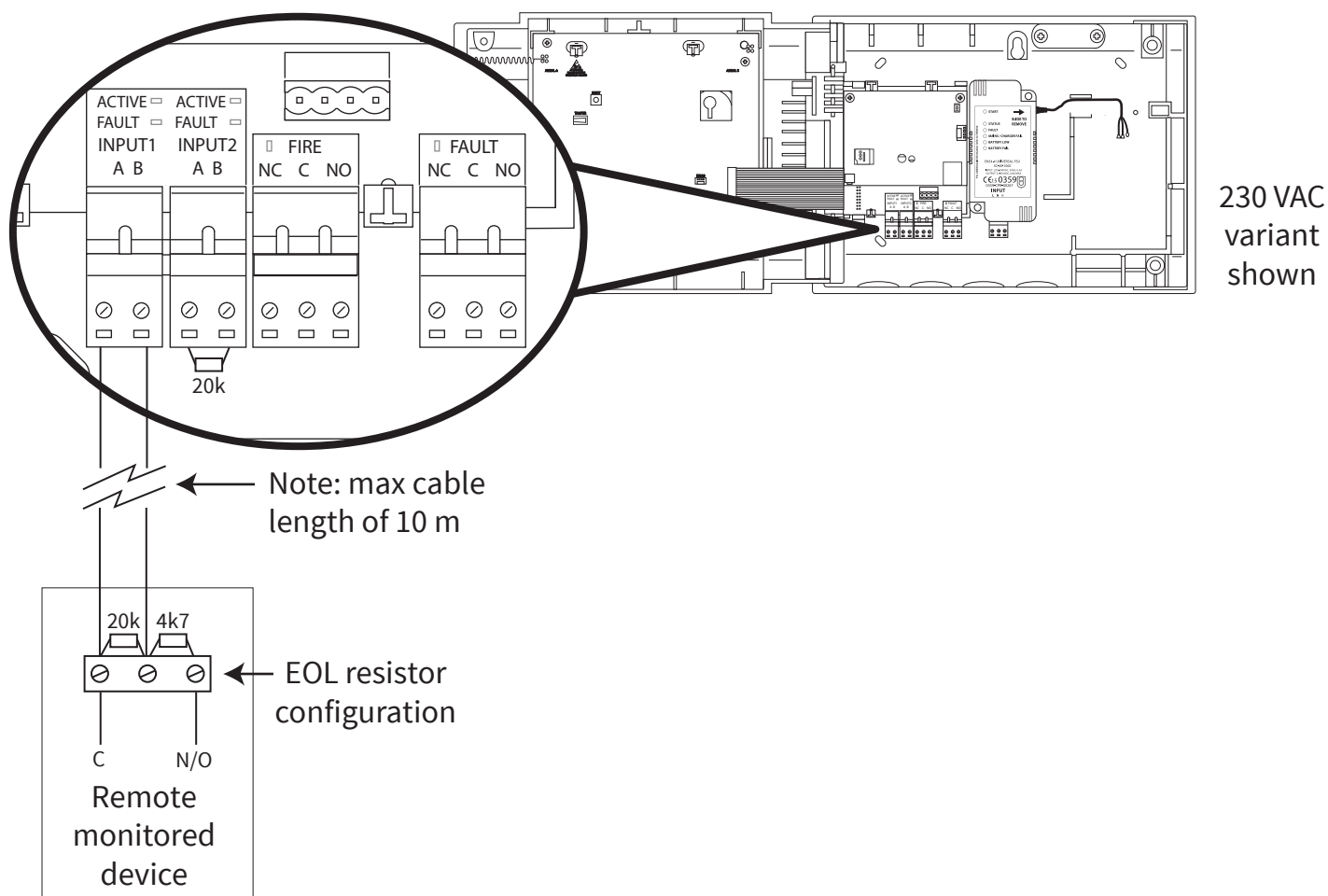


Note: the supplied back box mounting template can be used to drill the fixing positions, if required.

7 Relay Wiring

INPUT CONNECTIONS

- Two resistor monitored inputs are available (black connectors).
- Both inputs monitor; normal, alarm, open circuit and short circuit conditions.
- Each input is factory fitted with an end of line 20 kΩ resistor.
- To connect inputs to external devices, wire as shown below. I.e. Input 1, using the resistor pack provided.
- If an input is not being used, leave the 20 kΩ resistor as factory fitted.



OUTPUT CONNECTIONS (shown above)

- Two outputs are also available. One output is for fire (red connector) and one output is for fault (orange connector).
- Both outputs are voltage free, with a maximum switching capacity of 30 V at 1 A.
- The maximum cable length to connected devices is 10 m.

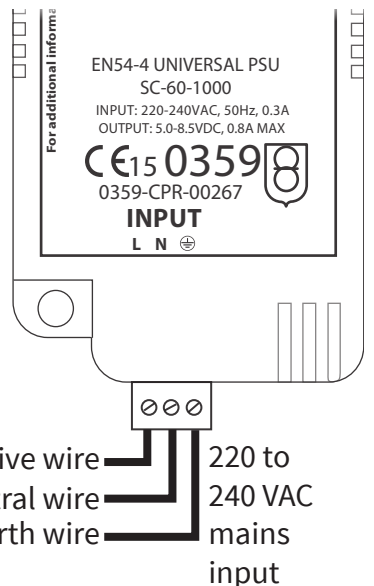


WARNING. DO NOT CONNECT TO MAINS.

8 Connection wiring (230 VAC version only)

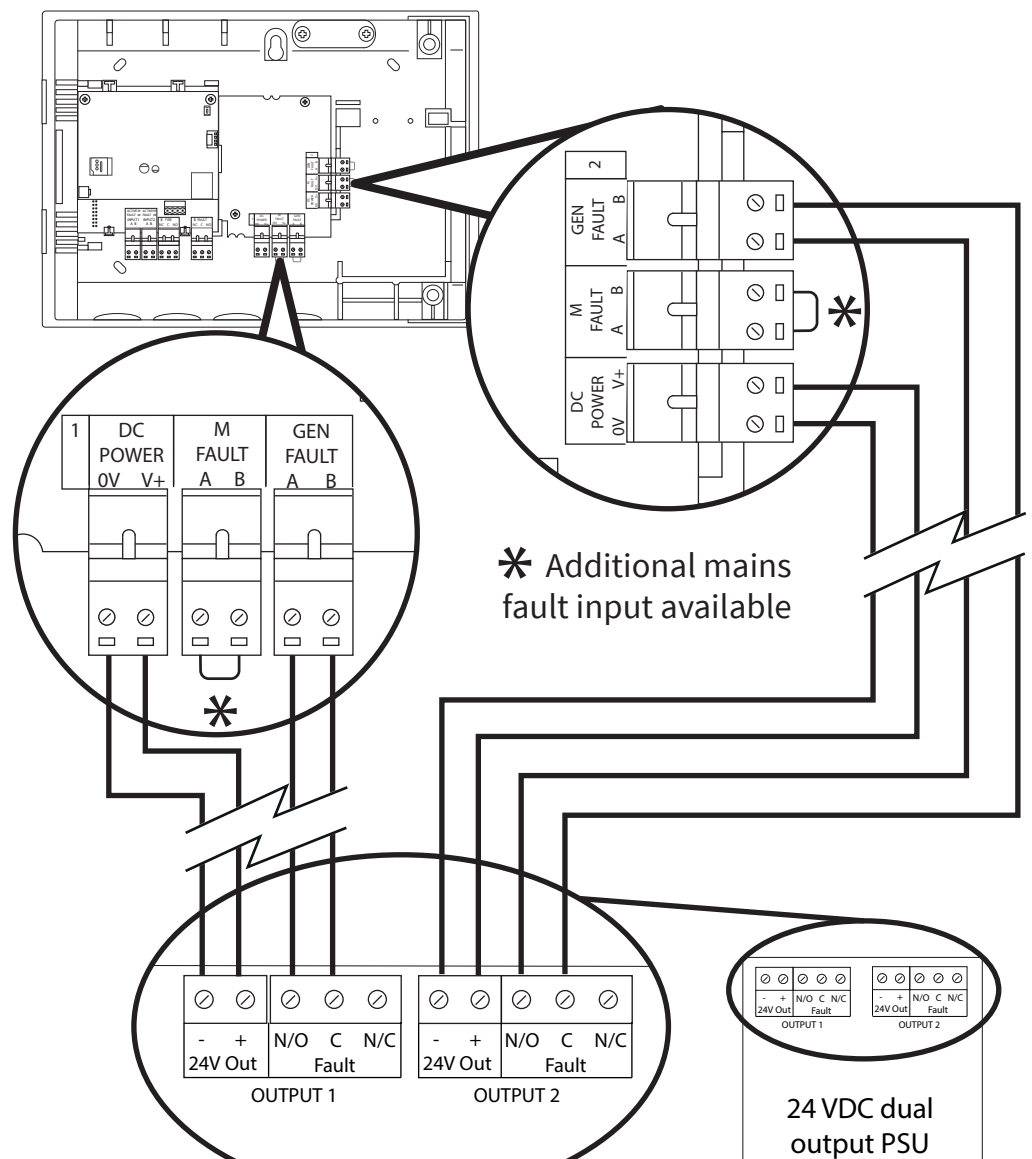
- **SKIP IF INSTALLING A 24 VDC VARIANT.**
- A 220 to 240 VAC supply is required.
- Use cable with a minimum cross section of 1.5 mm²
- Connections must be made through a 20 mm cable entry gland, incorporating cable clamp into the Wireless Control Panel.
- An additional 15 mm of cable should be considered for the earth connection to provide extra protection should the live or neutral wires disengage.
- This equipment relies on the building installation for protection and requires a 5 A protection device which should be labelled "Fire Alarm – Do Not Switch."
- An all-pole mains switch should be provided as part of the building installation.

Power
Supply
Unit
(PSU)



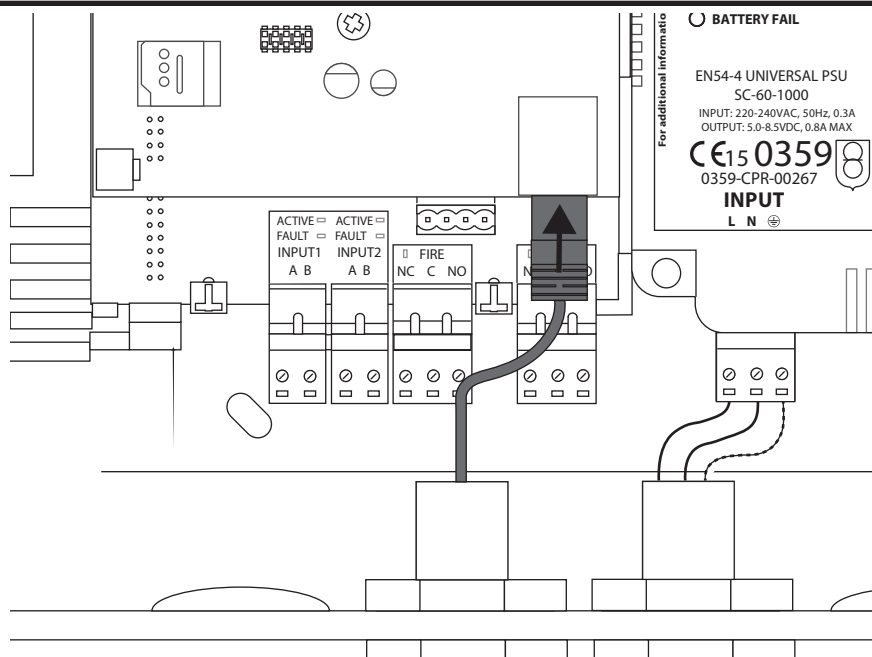
8b Connection wiring (24 VDC version only)

- **SKIP IF INSTALLING A 230 VAC VARIANT.**
- Cable glands should be used.
- DO NOT leave excess cable in the control panel.
- Two fault inputs are also available (black terminal blocks). They are labelled M Fault (mains fault) and Gen Fault (general / battery fault).
- If a fault input (GEN FAULT or M FAULT) is not being used, leave the link as factory fitted.



9 Ethernet connection *

- **SKIP THIS STEP IF USING SINGLE PATH COMMUNICATION ONLY VIA 3G CONNECTION.**
- Pass the ethernet cable through the lower cable entry point.
- Connect the ethernet cable into ethernet port as shown.

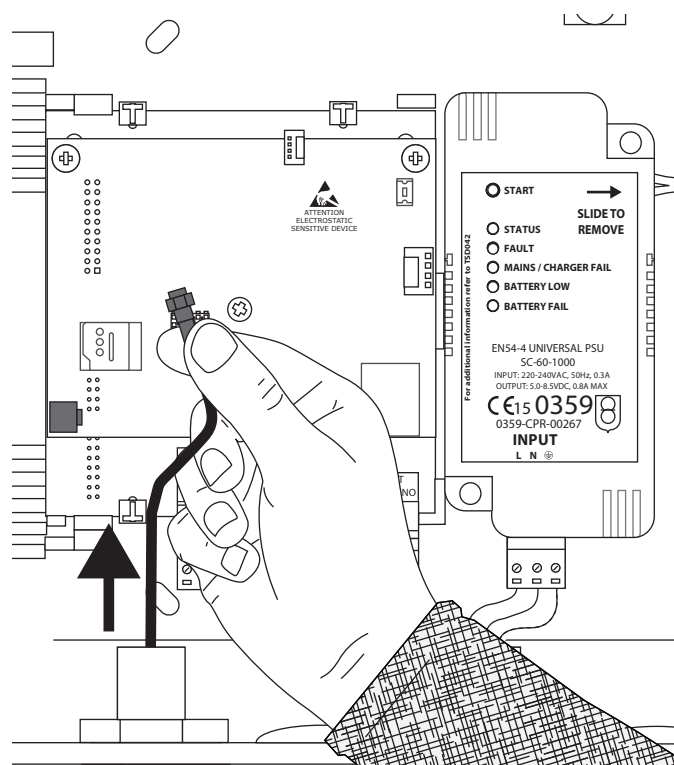


* Communications module required

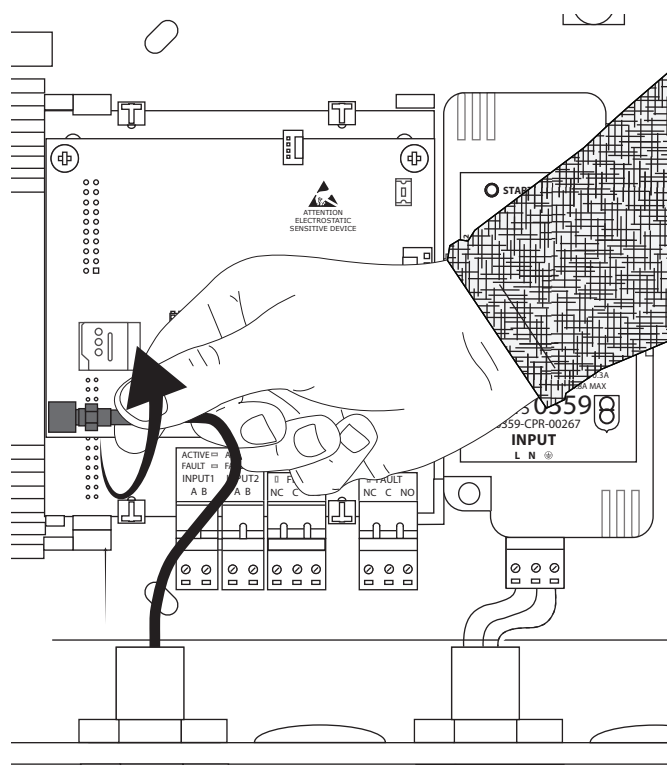
10 Back-up 3G connection *

- **SKIP THIS STEP IF USING SINGLE PATH COMMUNICATION ONLY VIA ETHERNET CONNECTION.**
- A T-bar aerial must be used.
- Fit as outlined below.

1. Pass the aerial cable through the lower cable entry point



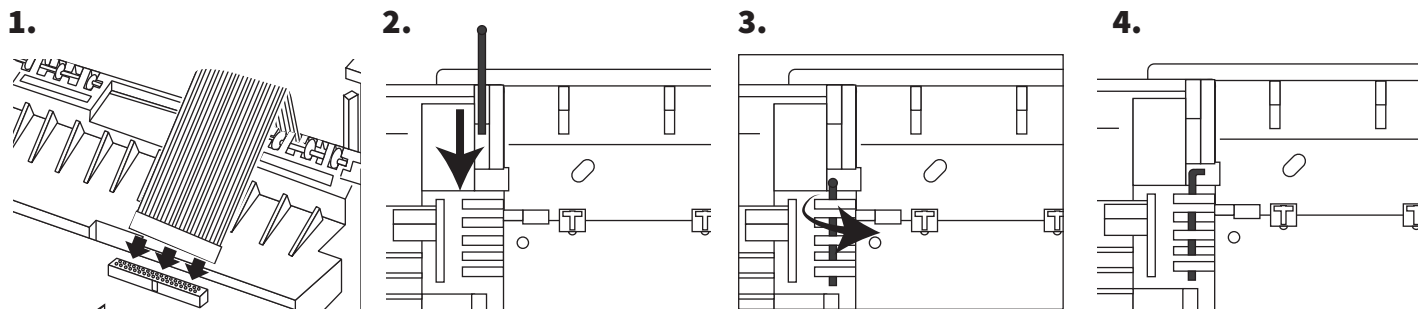
2. Make the aerial's screw connection



* Communications module required

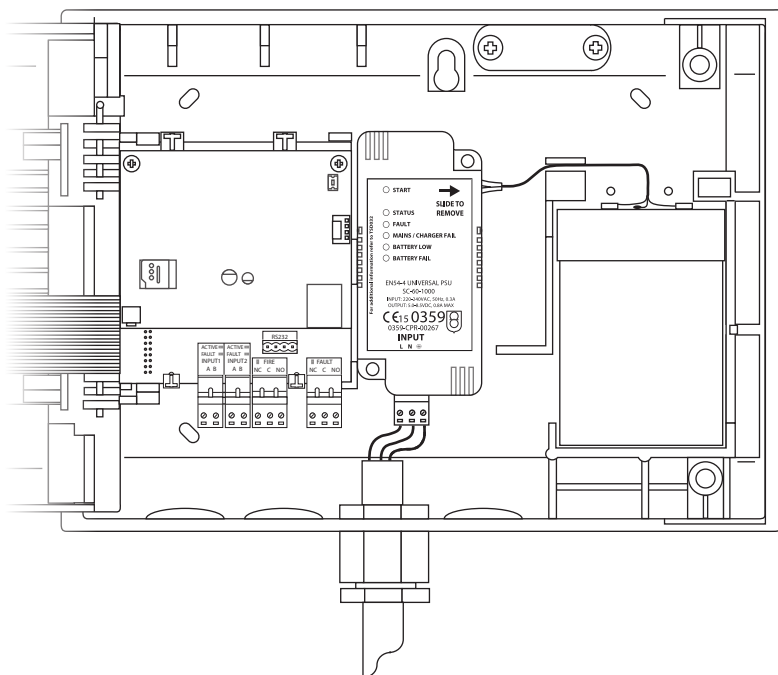
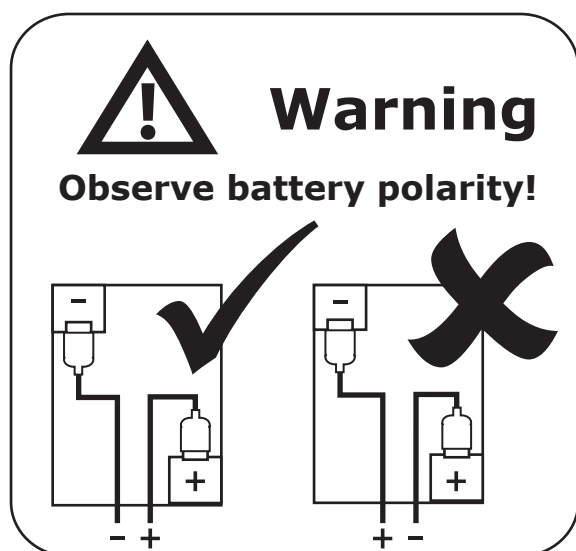
11 Refit the door

- Refit the door.
- Ensure the ribbon cable and the doors hinges are securely fitted.



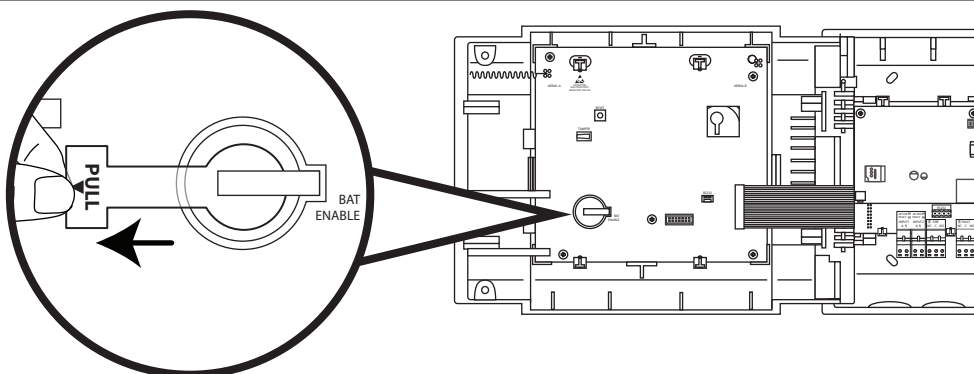
12 Fit back-up battery (230 VAC version only)

- Fit the control panel battery, observing the correct polarity.



13 Remove 3 V battery tab

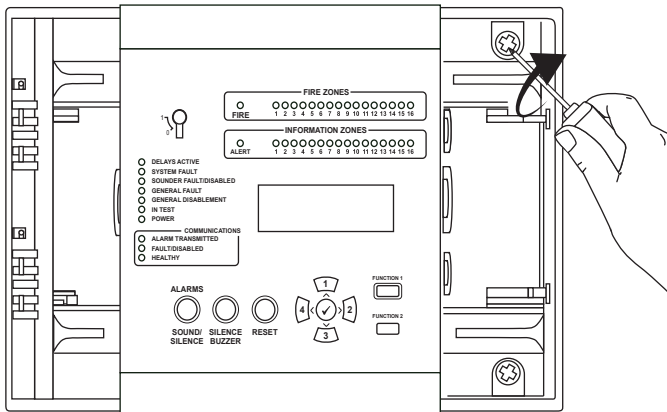
- The 3 V battery located on the back of the door must now be removed.



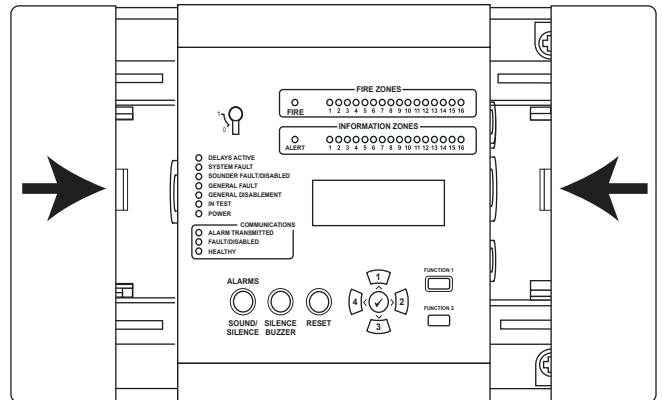
14 Close control panel

- Reassemble the control panel.

1.

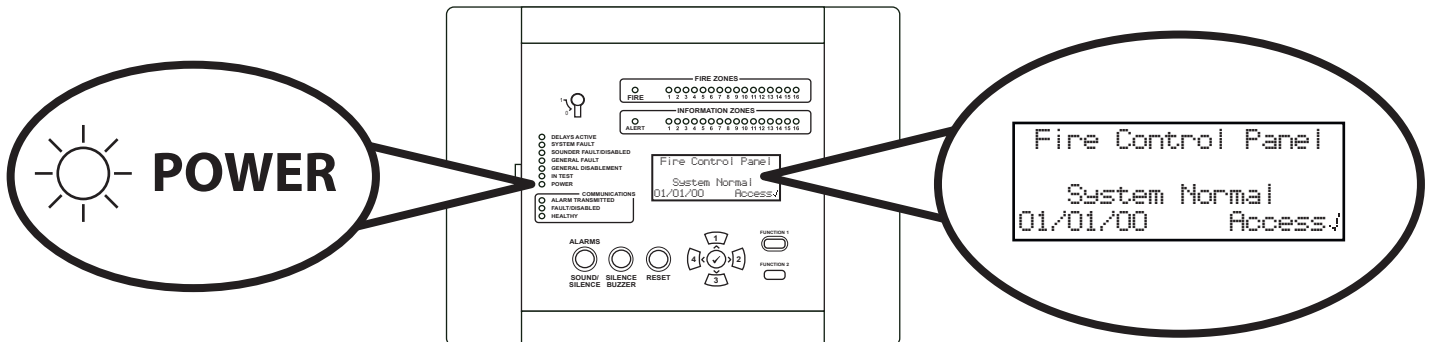


2.



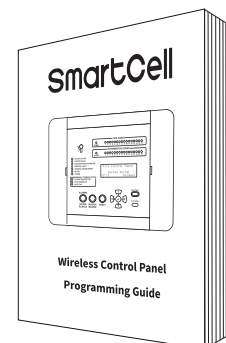
15 Apply power

- Apply power to the control panel.
- The green power LED will illuminate.
- All other LEDs should be extinguished.
- The screen should also display 'System Normal'.



16 Configuration


- The system can now be programmed.
- Refer to the SmartCell programming manual (TSD155) for details of compatible SmartCell devices and full programming information.



Specification

Operating temperature	-5 to + 45 °C
Storage temperature	0 to + 30 °C
Humidity	95% noncondensing max.
Location	Type A: for indoor use
Power requirements	230 VAC version: 220 to 240 VAC 24 VDC version: 19.2 to 28.8 VDC
Min/max electrical ratings	230 VAC version: 220 to 240 VAC, 50 Hz, 0.3 A 24 VDC version: N/A
Input / output fuse ratings	230 VAC version: Input - 3.15 A (non replaceable) Output - 300 mA & 750 mA (resettable) 24 VDC version: F1 - 60 V 1.2 A (resettable) F2 - 60 V 1.2 A (resettable)
Operating current	24 VDC version: 0.035 A (quiescent and alarm current)
Battery backup	230 VAC version: 1 x 6V 4 Ah Yuasa NP4-6 24 VDC version: N/A
<i>For information on routine battery changes, refer to the SmartCell Maintenance Guide (MK298)</i>	
Battery standby time	230 VAC version: 48 hours 24 VDC version: N/A
Maximum battery internal resistance	230 VAC version: 0.7 Ohms 24 VDC version: N/A
Max current drawn from the battery by the PSE with mains disconnected	230 VAC version: 5 mA (PSU), plus 100 mA from control panel 24 VDC version: N/A
Fire/fault relay ratings	1 A at 30 VDC
Maximum USB flash drive	128 GB, FAT32
IP rating	IP30
Operating frequency	868 to 870 MHz
Output transmitter power	14 dBm max. / 25 mW
Signalling protocol	X5
Maximum cable lengths	Inputs 1, Input 2 & RS232 = 30 m GSM/GPRS = 3 m. Ethernet = 30 m
Dimensions (W x H x D)	275 x 220 x 80 mm

Regulatory information

Manufacturer	EMS Ltd. Technology House, Herne Bay, Kent, CT6 8JZ, United Kingdom
Year of manufacture	See devices serial number label
Certification	CE19
Certification body	0359
CPR certificate DoP	0359-CPR-00272
Approved to	<p>EN54-2:1997+A1:2006. Incorporating corrigenda january 2007 and july 2009. Fire detection and fire alarms systems. Part 2: control and indicating equipment.</p> <p>EN54-4:1998. Incorporating amendments nos. 1 and 2. Fire detection and fire alarm systems. Part 4: power supply equipment.</p> <p>EN54-13:2005. Fire detection and fire alarm systems. Part 13: compatibility assessment of system components.</p> <p>EN54-21:2006. Fire detection and alarm systems. Part 21: alarm transmission and fault warning routing equipment. <i>(with communications module)</i></p> <p>EN54-25:2008. Incorporating corrigenda september 2010 and march 2012. Fire detection and fire alarm systems. Part 25: components using radio links.</p>
European Union directives	EMS declares that the radio equipment type SmartCell Control Panel is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: www.mysmartcell.co.uk
	<p>2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see www.recyclethis.info</p> <p>Dispose of your batteries in an environmentally friendly manner according to your local regulations.</p>

SmartCell

www.mysmartcell.co.uk