EACIE PANEL

1.0

EACIE PANEL INSTALLATION INSTRUCTIONS

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SECTION 1: EACIE PANEL

These instructions are for the EACIE (Evacuation Alert Control and Indication Equipment) panel--a building evacuation system which can be installed in tower blocks of flats which are over 18m in height, if there are no other automatic fire evacuation systems present in the building. The EACIE panel ensures that the fire authorities can manually evacuate the building from one controlled location when the fire escalates.

The system includes all materials, equipment and wiring required to install the complete evacuation alert system. It also includes one or more control panels, audible and visual alarm indicating devices and relays. A red label approximately 200 mm square with a flame symbol and the words “For Fire and Rescue Service Use Only” shall be firmly fixed to the front door of the EACIE enclosure.

Four versions of EACIE Panel-- EACIE1, EACIE2, EACIE3 and EACIE4--with different layouts are available so that you can configure the panel according to building design. You can label the different levels/floors/flats/zones in accordance with your building where the panel will be installed, but the numbers in each panel are standardised as:

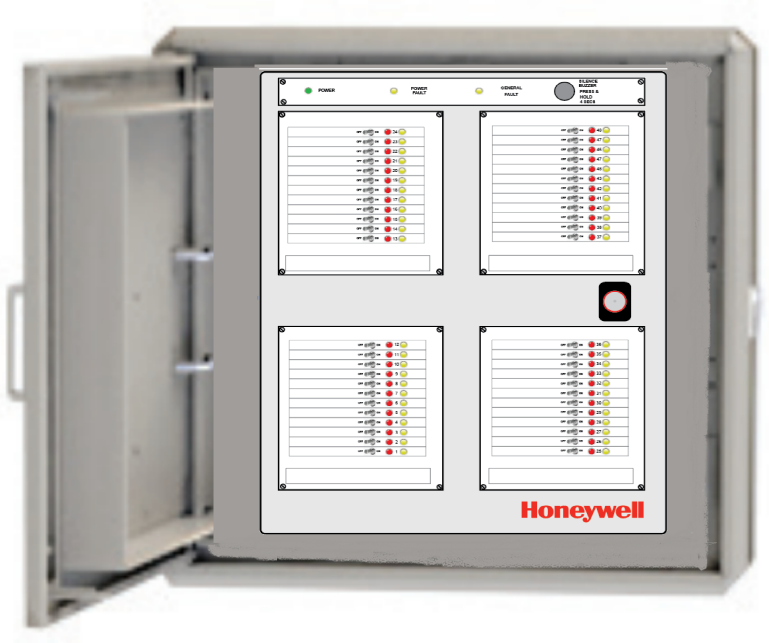
- EACIE 1: Single panel--12 zone
- EACIE 2: Double panel--24 zone

- EACIE 3: Three panels--36 zone
- EACIE 4: Four panels--48 zone

The zone labels can be engraved according to customer specifications on the fascia plates.

> ⚠ **WARNING!** The EACIE panel should not be incorporated into any communal building fire system. It is a standalone system for manual evacuation purposes only.

1.1 EACIE CONTROL PANEL



The EACIE panel is equipped with indicators and controls for service and maintenance use only. The panel is simultaneously capable of indicating the presence of evacuation alerts, faults and tests in accordance with the requirements of EN54-2. In addition, the display has the minimum LED indicators provided as per the requirements of EN54-2.

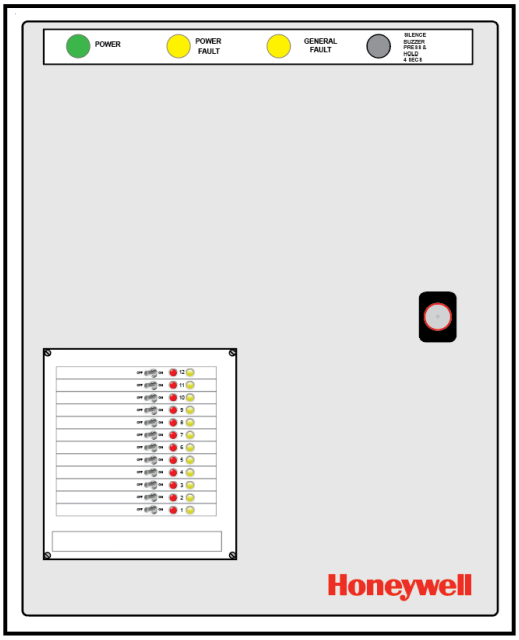
1.1.1. LOCKING MECHANISM

The cabinet incorporates a high-security lock to EN 1303:2015.

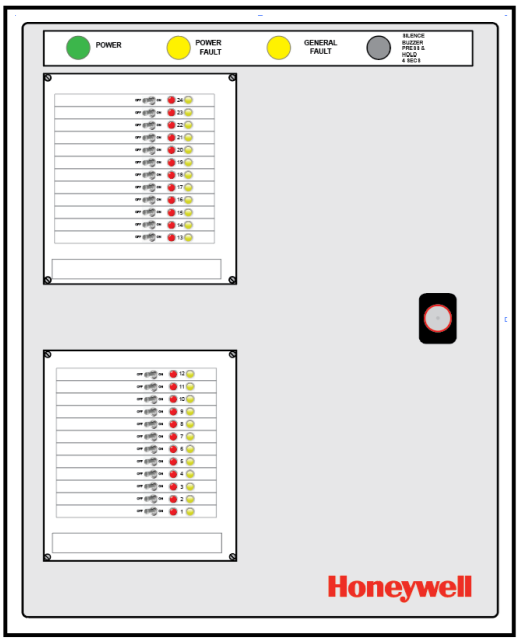
The locking mechanism will be operated by copy-protected keys that are carried by the Fire and Rescue Service (FRS), and the supply of spare or replacement keys shall be strictly controlled in order to prevent operation/access by unauthorised persons.

When the GERDA box is first shipped, it will have the padlock and keys and after it is commissioned, the landlord has to request for the keys. The Building Safety Manager ensures that keys used for maintenance purposes are controlled so that they are readily available to authorised users and returned promptly after use.

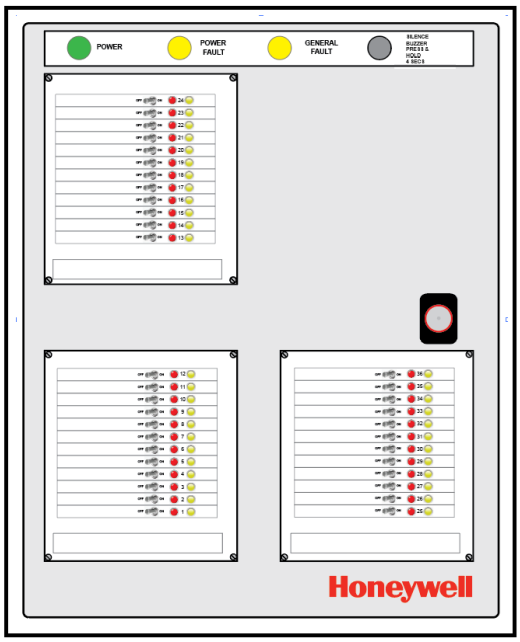
1.2 DIFFERENT VERSIONS OF EACIE PANEL



EACIE 1 (12 Zone)



EACIE 2 (24 Zone)



EACIE 3 (36 Zone)

EACIE 4 (48 Zone)

1.3 TECHNICAL DATA FOR THE EACIE PANEL

Attributes	Details
Mains supply voltage and fuses	230V -15% +10%, 50Hz/60Hz protected by: FS3T3.15AH250V, Ceramic (20 x 5mm) on PSU, Input Current - 1.4A
Battery	Single 12V 13 Ah sealed lead acid, fire rated battery with 72 hour standby
Immunity	BS EN50130-4: 1996: Part 4
Weight	18 kg (with 4 panels and battery included)
Dimensions	570mm (w) x 575mm (h) x 146mm (d)
Colour	RAL 7035
Approval	LVD. EMC, RoHS
Storage Temperature	-10 °C to +55 °C
Battery Operating Temperature	-20 °C to +60 °C
Ambient Operating Temperature	-5 °C to +40°C
Relative Humidity	Upto 90% (Non-condensing) Temperature +5 °C to +40 °C

1.4 TECHNICAL DATA FOR GERDA

Refer to EAC005-2C4 document (GERDA Enclosure Specification Sheet) for technical details.

Attributes	Details
Weight	65+ kg
Dimensions	741mm (w) x 700mm (h) x 200mm (d)
Enclosure	Steel
Colour	RAL 9006
Storage Temperature	-10 °C to +55 °C
Ambient Operating Temperature	-5 °C to +40°C
Relative Humidity	Upto 90% (Non-condensing) Temperature +5 °C to +40 °C

1.5 SYMBOLS ON PRODUCT

Symbols	Details
	Protective Earth connection terminal.
	The WEEE symbol. It indicates the product is to be recycled and not thrown away.
	The CE compliance logo. This product is in conformity with the relevant European Union harmonisation legislation.
RoHS	The RoHS compliance logo. The RoHS directive restricts the use of certain hazardous substances commonly used in electronic and electronic equipment.
UK CA	The UKCA (UK Conformity Assessed) marking is a new UK product marking that is used for goods being placed on the market in Great Britain (England, Wales and Scotland).

SECTION 2: INSTALLATION

For compliance with STS 205 BR2 as recommended in the BS8629 standard, the Honeywell EACIE panel must be placed into a GERDA enclosure. This is to prevent vandalism or unauthorised access to the EACIE panel, which could lead to rogue evacuations.

2.1 GERDA INSTALLATION

The product specifications and installation instructions for the GERDA are provided in the EAC005-2C4 document (EACIE Enclosure Specification Sheet). Installation instructions are supplied with each GERDA enclosure together with masonry fixings and a fitting template. The pull handle is also supplied separately to avoid damage in transit.

01. Mount the GERDA enclosure to a solid surface using the L-shaped brackets with mounting holes.

02. The installation company should use suitable fixing methods considering the weight of the GERDA and the assembled EACIE panels and the construction of the wall.

03. For BS8629 compliant projects where a GERDA is required, the EACIE panel is designed to fit onto the ‘C’ brackets supplied with the GERDA.

04. The GERDA enclosure keys are registered to the end user, and the lock barrels are unique to each Fire and Rescue Service area of jurisdiction.

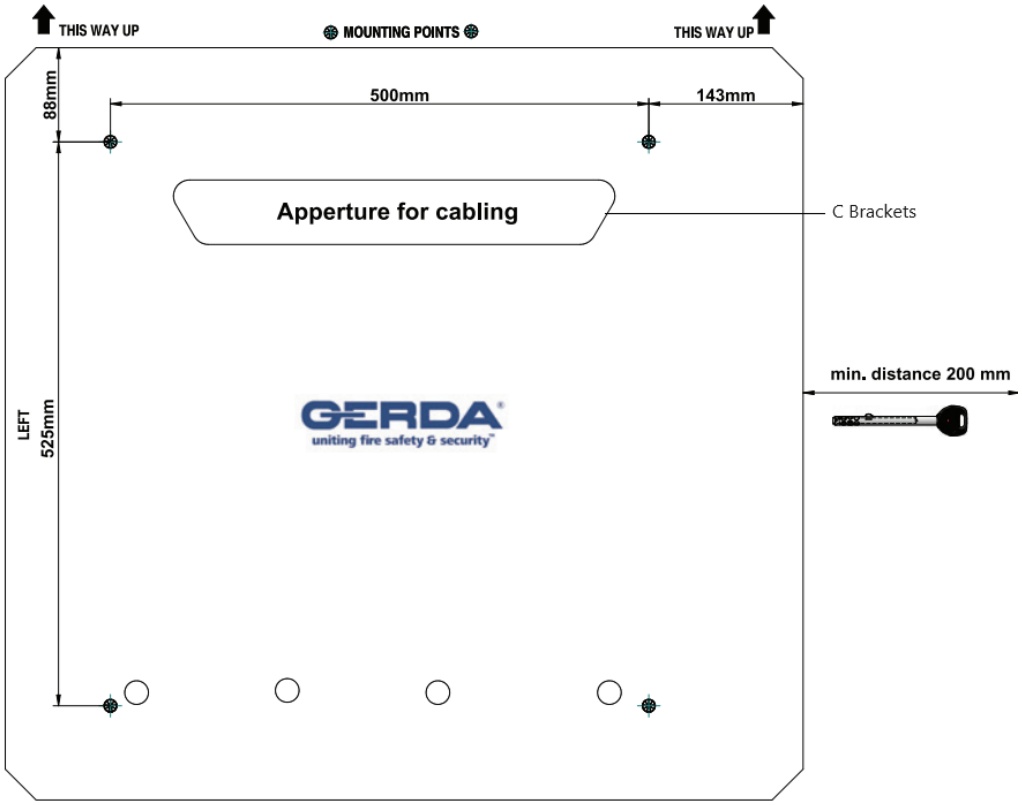
2.2 HONEYWELL EACIE PANEL INSTALLATION

The EACIE panel is pre-fitted vertically with mounting brackets on either side. The brackets are secured with self tapping screws and two guide holes are marked.

Self-tapping screws and drill bit are provided with the EACIE panels to drill and affix the mounting brackets to the GERDA box.

The top of the mounting brackets are bent to form hooks to mount on the C bracket in the GERDA box, preventing the EACIE panel from sliding forward during installation.

01. Hook the Honeywell EACIE panel onto the GERDA and position it with the C brackets. The installation brackets are external to the panel, allowing for easy installation.



02. Position the Honeywell EACIE panel along the C brackets. Pilot holes are marked on the mounting brackets. Using a 4.5mm drill bit, drill through the bracket onto the GERDA panel. The top pilot hole should be 43cm from the bottom of the mounting bracket, and the bottom hole 2.5cm from the bottom of the bracket. Ensure the GERDA door can fully close unobstructed.

03. Once the panel is in position, mark the holes on the GERDA and drill into the marked points. 5.5 X 13mm self tapping zinc plated pozi head screws are supplied.

04. Affix the EACIE panel to the GERDA using the self tapping screws supplied in the spare box.

2.3 WIRING OF MAINS POWER AND LOOPS

01. Cables should be installed from the rear of the GERDA enclosure. The image below shows the outside connections from the left--Power glands, L1 glands, and L2 glands, which are 20-21 mm^2 in diameter.

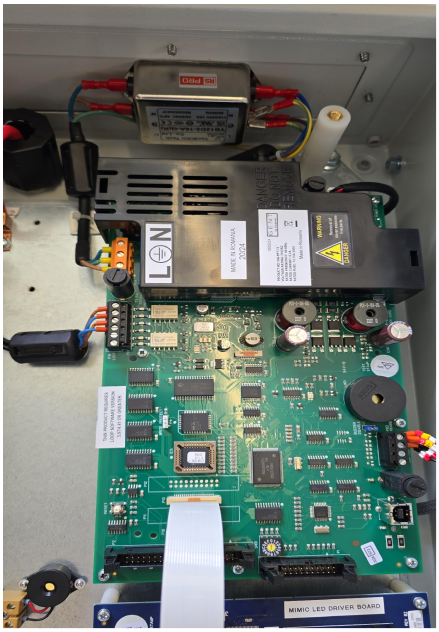
02. Terminate each cable at the entry point leaving a 400mm tail wire length, and mark each core to identify its final connecting point.

Ensure that you make room for more length of the cable while connecting to the loops so that you can clasp each of the ferrite chokes supplied, to the cables that connect to the loop. The ferrite chokes protect against any radio frequency or electromagnetic interference.

a. Open the ferrite choke.

b. Clasp around each of the loop wires.

c. Put in a ferrite choke on the incoming power line. There is another ferrite choke on mains out which comes pre-installed in the panel.

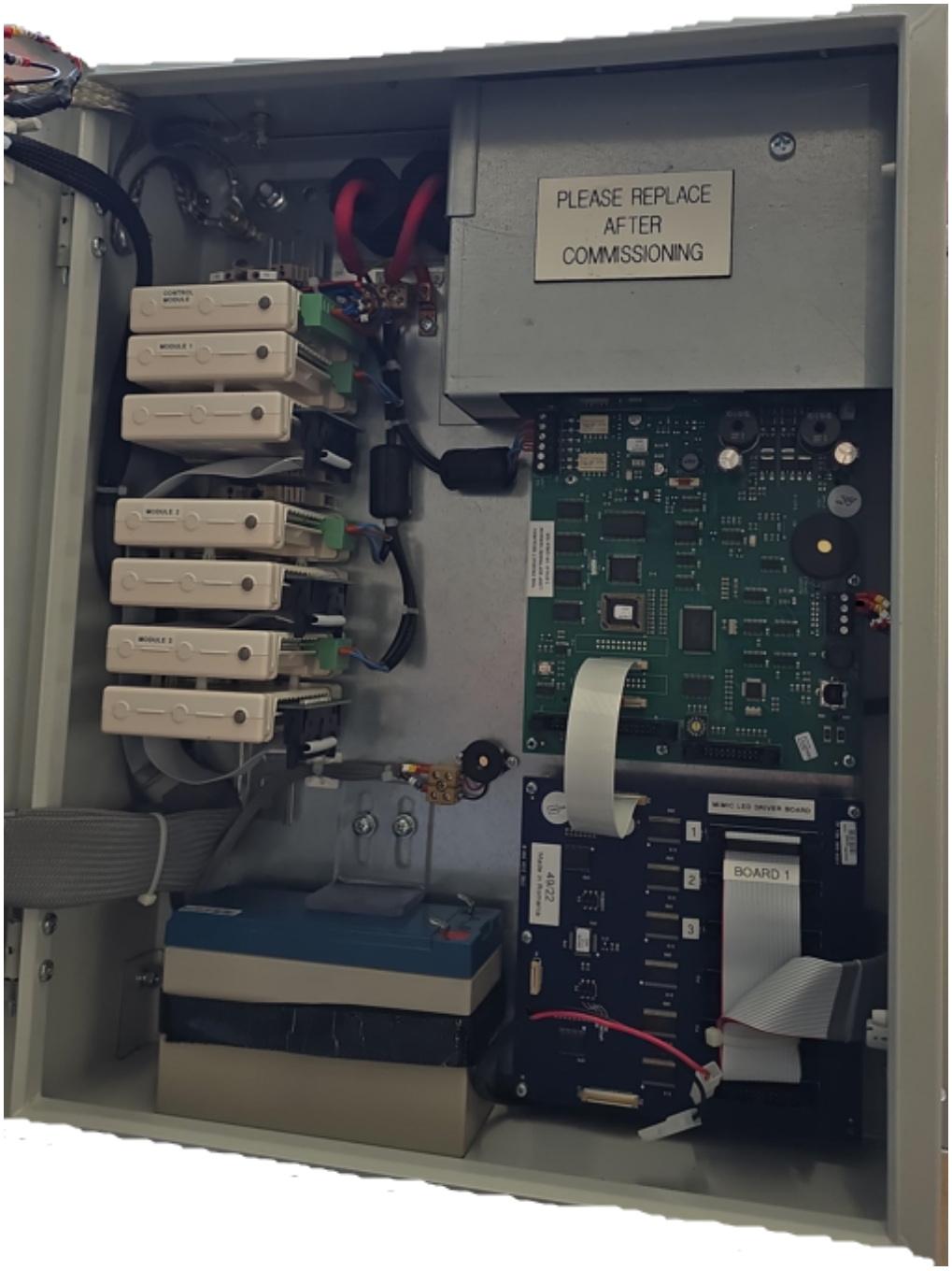


NOTE

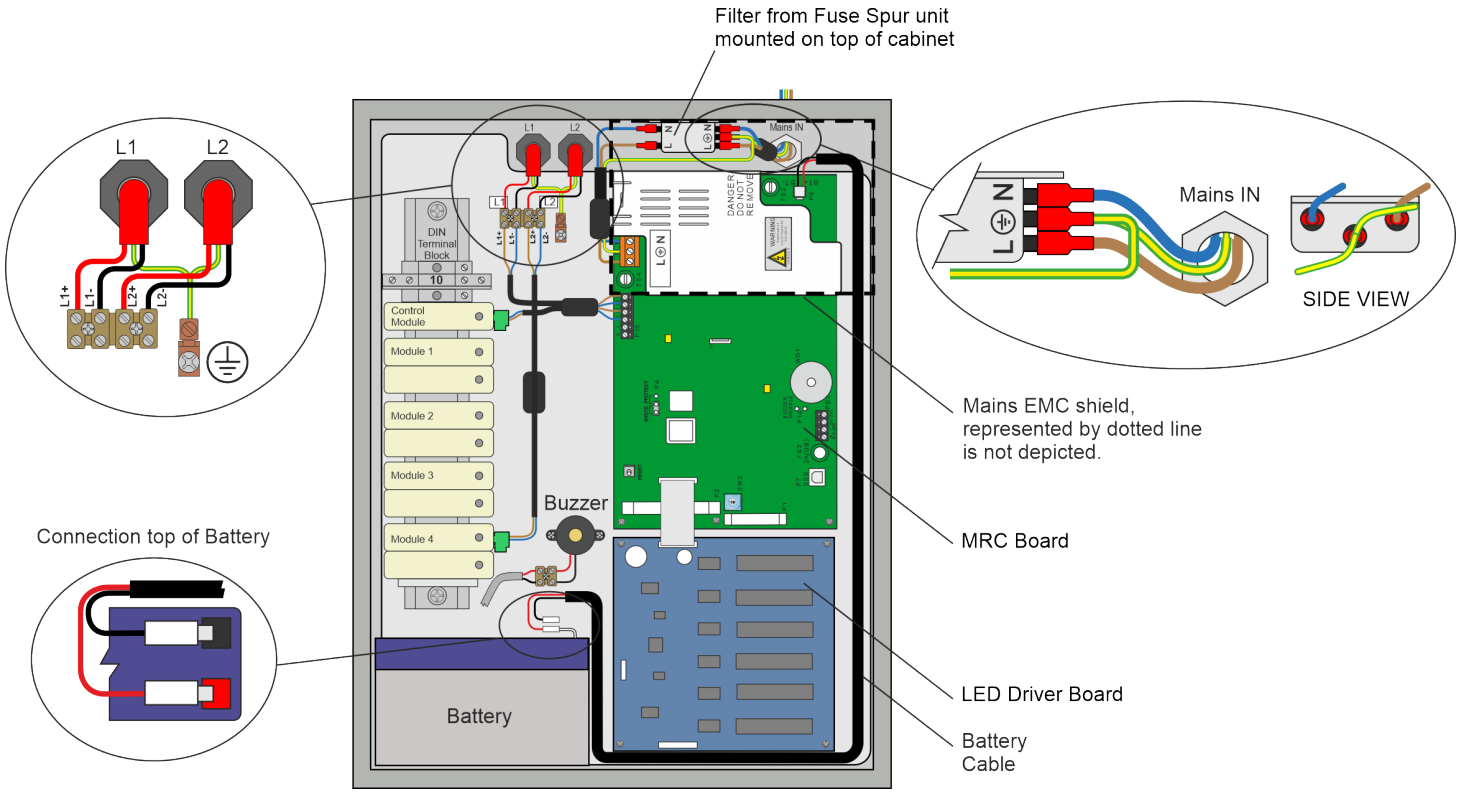
Ensure that cabling is kept as short as possible.

WARNING! If the mains cable is to remain disconnected, its tail ends must be insulated to prevent dangerous conditions arising from accidental switching on of the mains supply.

03. Remove the metal cover at the top right corner to access the mains wiring by unscrewing it. Replace the metal cover after commissioning.



04. Connect the mains wiring to the filter using the crimp connectors supplied.

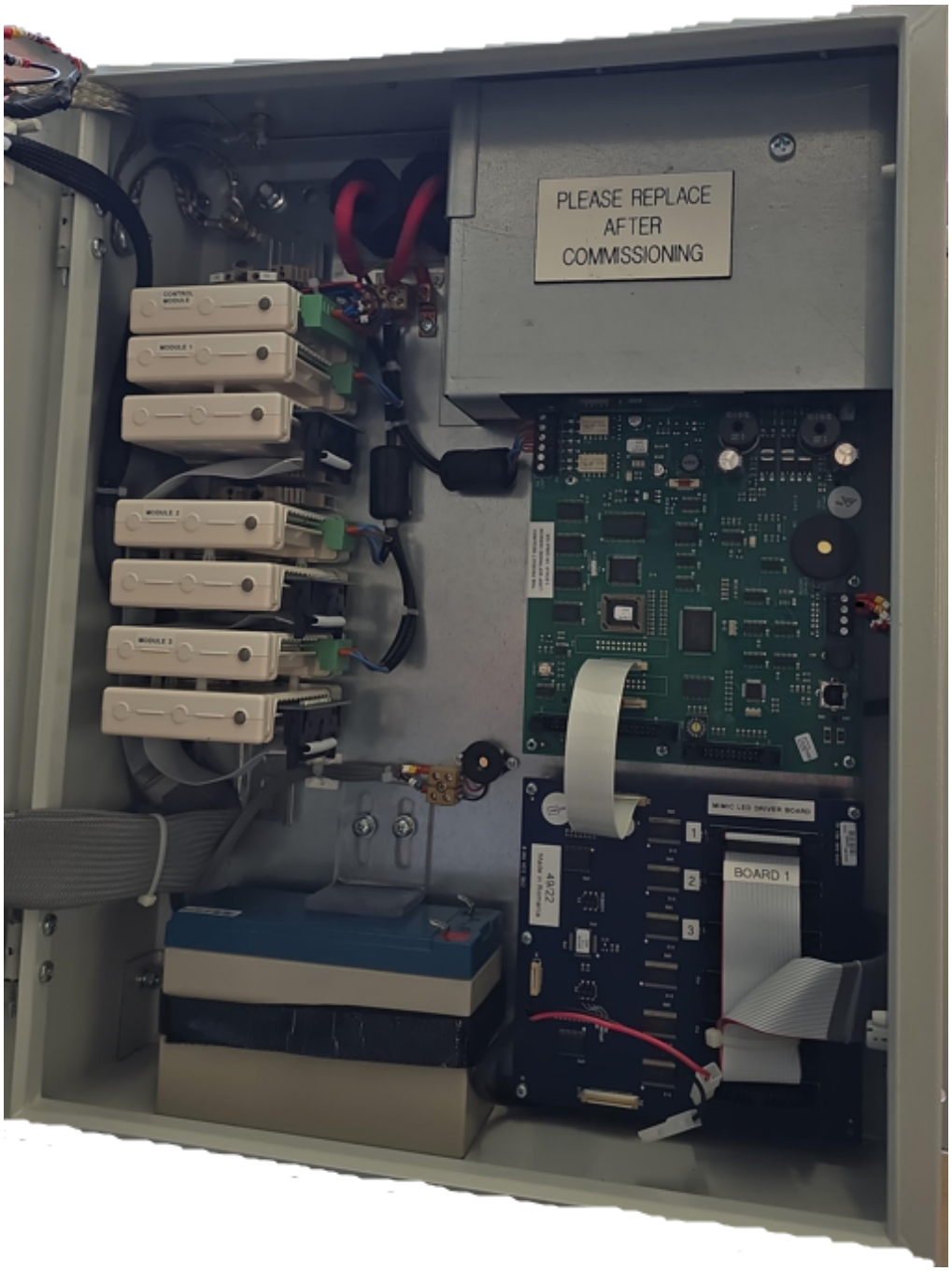


NOTE

The mains supply cable to Control and Indicating Equipment must be a standard fire resisting type and should meet PH30 classification. An approved cable for wiring to these circuits is a 3 core Mineral Insulated Cable (MICC) to BS6207:Part 1. The recommended length of cable for the respective circuit is up to 15m in length and 1.5 mm^2 in cross section.

05. Install the mains and loop cables into the EACIE panel.

2.4 INTERNAL PANEL ASSEMBLY AND WIRING

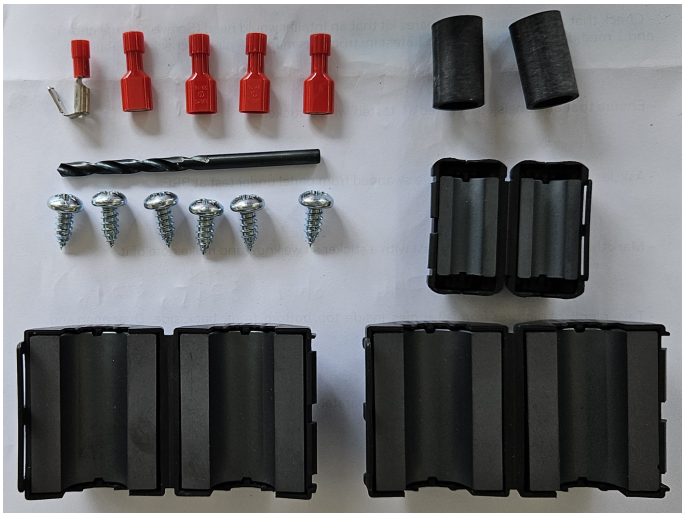


CAUTION: To maintain earth continuity, an earth lead (not supplied) should be fitted from an earth point in the control panel.

2.5 SUPPLIED WITH THE EACIE PANEL

- Six 5.5 X 13mm zinc plated self tapping pozi head screws (x4 + 2 spare for fitment of panel to GERDA rail)

- x4 Push-on spade crimp terminal red
- x1 Piggy-back spade crimp terminal red, earth (Extra insulated spades to connect to the filter via the crimp connector. Both red spades and piggyback spades are provided in case of loss during connection.)
- x2 Cable sleeves
- 4.5 mm drill bit.
- Installation and User Instructions.
- 2 large ferrite chokes and one medium choke.



SECTION 3: OPERATING INSTRUCTIONS

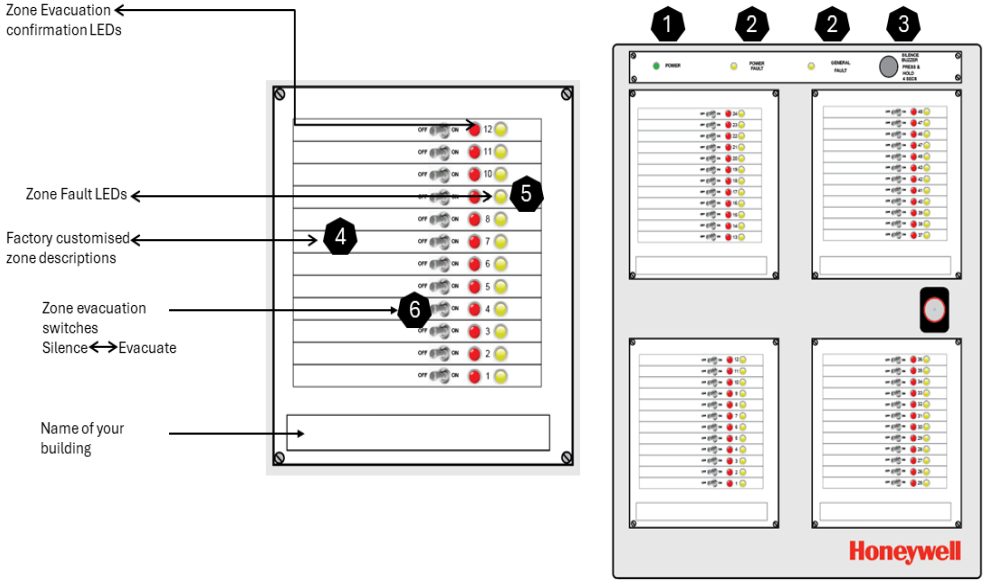
3.1 EACIE PANEL

The EACIE Panel must be mounted inside a GERDA enclosure for security reasons, which will be supplied to the site and installed separately.

GERDA has developed an enclosure specifically for the BS8629 market with electrical knock outs. The Gerda locking mechanism is used by the FRS-Secure One System and the lock and key is certified and meets the required standards mentioned in BS8629.

The GERDA enclosure weighs 90 kg and it should be noted that the installer is responsible for installing the EACIE panel into the enclosure.

3.2 CONTROLS AND INDICATIONS OF THE EACIE PANEL



01. The green light denotes that the main power is on.
02. The yellow lights shows when there is a fault in the panel. The first yellow light glows when there is a power fault and the second one lights up when there is a general fault.
03. Press the black button to silence the buzzer. You have to hold the buzzer button for 4 seconds to silence the buzzer.

04. The panel has descriptions which can be customized according to the user descriptions of either levels/floors/flats/zones. You also have the provision to enter the description of your building at the bottom of each panel.

05. For each level you have the adjacent switch and both the evacuation confirmation LED and the fault LED.

06. The FRS personnel can flick the switch from top levels to down as the evacuation progresses in a controlled manner. Flick the switch to right and the alarms in that level alone will go on and you can proceed with evacuation on that level/floor.

07. The LED corresponding to that floor will be red to denote that the evacuation is going on. If there is a fault in the level, the yellow light will come on.

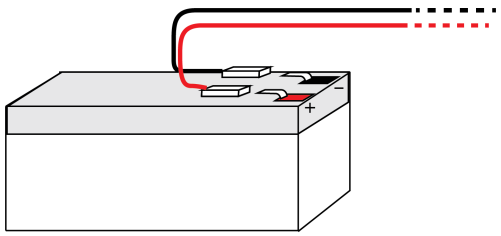
08. Once the evacuation on a level is complete, flick the switch to left and the alarms in that level will be silenced and you can proceed with the level/floor below by following the same steps explained before.

3.3 COMMISSIONING

01. Commission the Vigilon system and configure to site requirements.

02. Apply power to the EACIE panel and connect the battery supply and test the system.

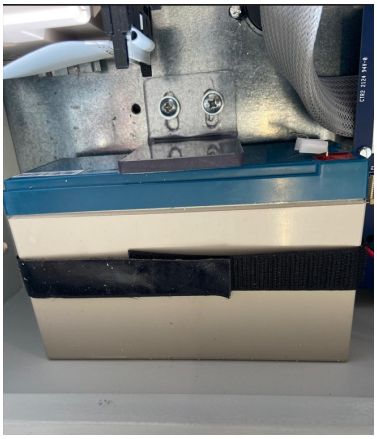
03. Connect the battery terminals to the correct wires as shown in the diagram below.



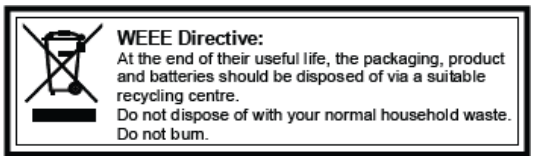
NOTE

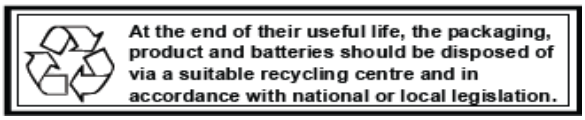
If the battery wires are wrongly connected, there is a risk of accidental fire or explosion.

04. Secure the battery with the velcro belts.



WARNING! Always use the recommended replacement batteries as there is a risk of an explosion if incorrect battery is used. Dispose off used batteries according to the manufacturer's instructions.





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