



Installation Guide

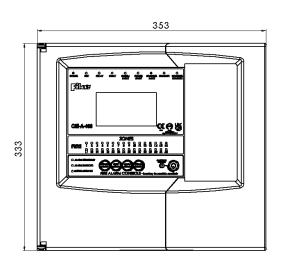
Do not attempt to use this equipment until you have fully read and understood this guide.

A knowledge of BS5839-1: Fire Detection and Alarm Systems for Buildings is essential.

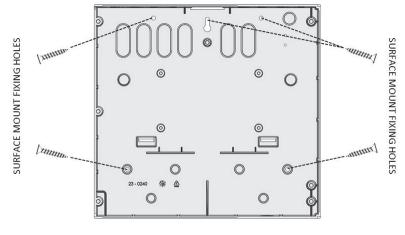
It is strongly recommended that a suitably qualified and competent person is consulted in connection with the Fire Alarm System design and that the entire system is commissioned in accordance with the current national standards and specifications.

Equipment Guarantee

The equipment carries no warranty unless the system is installed, commissioned and serviced in accordance with the manual and the relevant standards by a suitably qualified and competent person or organisation.







Surface Mounting

The five mounting holes should be used to secure the cabinet to a solid wall using suitable screws of at least 50mm in length. Ensure that a minimum gap of 50mm is left between the sides of the back box and any wall or projection (such as another box)

Access Level	Description	Controls LED	Key Operation	Default Code
0 – NORM	Normal	OFF	NO	N/A
1 – USER	User	ON	YES	8737
2 – SUPR	Supervisor	SLOW FLASH	NO	7877
3 – ENGR	Engineer	FAST FLASH	NO	3647



Fire Alarm Controls

The menus on repeater panels are exactly the same as the menus on a control panel. However, most of the controls are not relevant for repeater panels so will give the message 'NOT AVAILABLE ON RDU'.

The main fire alarm controls may be enabled by turning the key switch to the "Controls Enabled" position, or by entering a valid Access code (See page 1).



The menus may be navigated in one of two ways as required:

- 1. Use the UP / DOWN keys to move the highlighted selection and press ENTER to select the chosen one.
- 2. Enter the desired option number and press ENTER to select it.

Press the Esc key to exit to the previous menu.

Mains Supply

The repeater panel 230V AC supply requires fixed wiring between 1 mm² and 2.5 mm², a 3 amp fused un-switched spur with local isolation. The mains supply should be dedicated to the repeater panel and should be clearly labelled 'FIRE ALARM: DO NOT SWITCH OFF' at all isolation points.

NOTE* As stipulated in BS:5839-1 the RDU must not be powered on the same circuit as the CIE.

Batteries

The repeater panel requires 2 x 12V 7Ah sealed lead acid batteries. The batteries should be connected in series using the connection leads supplied. We recommend the use of type Yuasa NP7-12 (FR) or other equivalent approved type.

Do not use smaller capacity batteries on this system, smaller batteries will be overcharged and the service life will be reduced.

Using different capacity or type of batteries may invalidate any warranty.

Note that batteries are electrically live at all times and great care should be taken to ensure that the terminals are never presented with a short circuit. Care should be taken at all times, especially during transit, installation and normal use.

Use caution as there is a risk of explosion if the batteries are replaced by an incorrect type.

Batteries no longer required should be disposed of in a safe and environmentally friendly manner by the battery manufacturer or a suitable recycling service. They should never be incinerated or placed in normal rubbish collection facilities. Dispose of used batteries according to the instructions.

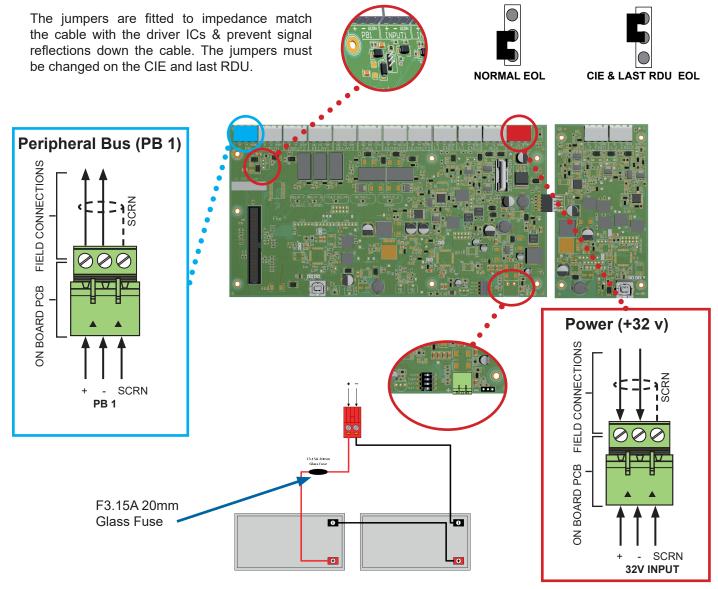
Peripheral Bus (PB 1)

Communications between the panel and repeater is via a multi-drop RS-485 Peripheral Bus. 2-core 1.5mm2 scrnd fire resistant cable (i.e. FP200, Firetuff, Firecell) should be used for communications to the repeater.

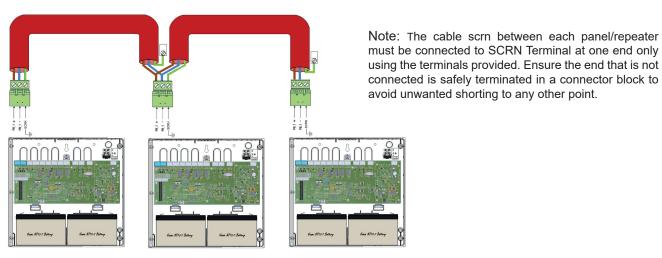
The maximum total cable length from the control panel to a repeater is 500 metres.

Up to 8 repeaters can be used but they must all be within the maximum 500 metres cable length and are wired + to +, - to -, the scrn must be connected to the control panel at one end only using the terminals provided. Terminate the unused end in a connector block as shown below and so on up to the maximum of 8 repeaters.

Connections



The peripheral bus must be run from the panel to the first repeater then the second repeater and so on; the peripheral bus must not be spurred from one point.



Terminal	Description	
+	Connects to the + connection on the repeaters	
-	Connects to the - connection on the repeaters	
SCRN	Field cable scrn connection	

Programming

After installing all remote display units

- Step 1. On the main panel, navigate to option (ENGR) menu 13- Peripheral Bus Settings
- Step 2. Switch on supervision for the number of repeaters required in (option 1 RDU SETUP)
- Step 3. Send the configuration to all repeaters (Option 2 INITIALIZE RDUS)

1. Peripheral Bus Settings → RDU Setup

This will allow the engineer to switch on the supervision for RDUs on the system.

2. Peripheral Bus Settings → Initialize RDUs

This will allow the engineer to send the configuration of the main panel to all RDUs on the system.

3. Peripheral Bus Settings → Reset RDU

Function not used on panel (RDU Only)

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1. RDU SETUP
2. INITIALISE RDUS
3. RESET RDU

PRESS UP / DOWN AND ENTER TO SELECT PRESS ESC OR REMOVE KEY TO EXIT

	Technical Information		
Mains	T4A Time Delayed 20mm Ceramic (in mains terminal block)		
Battery Charger	700mA current limiter		
Battery (reverse polarity)	F3.15A Fast Blow 20mm (in line with battery leads) Glass		
Dimensions	353mm x 333mm x 117mm		
Cable Type	2 core 1.5mm ² screened fire rated cable		
Operating Voltage	21-33v		
Operating Current Quiescent @ 32v	30mA		
Operating Current Max @ 32v	60mA		
Communications	Multi-drop RS-485		
Total Peripheral Bus Length	500m		
IP Rating / Operating Temperature	IP30 / -5°C to +40°C		
Max Number of Repeaters per Control Panel	8		

Technical Support

Contact your supplier for technical support on this product.

Due to the complexity and inherent importance of a life risk type system, training on this equipment is essential, and commissioning should only be carried out by competent persons. Fike cannot guarantee the operation of any equipment unless all documented instructions are complied with, without variation. This unit complies with the EMC directive.

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