

993536-01.cdr

CE

Description

The ZP3-RDUB1 Remote Display Unit (Repeater Panel) mimics the status of a host ZP3 Panel at a remote location. Bi-directional communication between them is via the ZP3 Serial Control Bus (SCB), which makes use of a RS485 link.

The RDU Panel has the RDU Display and RDU Zone Boards mounted to its door. The door has cut-outs prepared for access to push-button switches, LED's and the LCD. The door is closed by a Camlock. The Controls Key can be software enabled in the host panel to control access to the Accept, Reset, Sound Alarms and Silence buttons.

Wiring to the RDU Panel is done through the knock-outs situated at the back of the panel.

Specification

Compatibility:	ZP3 Panels
Software:	SW72301.XXX, SW72201.XXX
Data Interface:	ZP3 Serial Control Bus (RS485)
24V Power Supply:	
Voltage	24Vdc (-20% +25%)
Current (quiescent)	150mA
Current (max)	300mA
Current (LCD backlighting off)	100mA
Display Type:	Euro 4 x 40 LED
Primary LED indications:	Common Fire, Common Fault, Common Disabled,

O Al	ther, Silence Alarms, Sound larms
Secondary LED Indicators	26 LEDs
No. of Zone indications	50
Audible Alarms:	On-board buzzer to acknowledge key presses and signal alarms.
Pushbutton Switches:	14
Keyswitches:	Controls On/Off
Jumper Links:	
Controls Enable (L1)	Enables Accept, Reset, Sound Alarms and Silence Alarms
Reset Comms Controller (L11)	Resets the communications microcontroller
Reset Main Controller (L12) Resets the display microcontroller
Buzzer Mute (L16)	Kills the buzzer (only with commissioning terminals shorted)
Termination (L2)	Terminates the RS485 line with 120Ω
Fail-safes (L5, L6)	Used together to apply a fail- safe bias to the RS485 line
Terminals:	
Earth (TB4.1)	Connect to building earth
0V & +24V (TB4.2&3)	24V DC supply
Comms (TB3)	RS485 connection to the Serial Control Bus
Crls Off (TB2.1&2)	Not used
Commis (TB2.3&TB5.1)	Link to place RDU in commissioning mode (buzzer mute)
Reserved (TB5.2&3)	Connection for the controls on/off keyswitch
Dimensions:	358mm (W) x 220mm (H) x 52mm (D)
Weight:	2.7 kg
EN60529 Rating:	IP30
Temperature Range:	-5 to 45ºC

Installation

- 1. Drill holes for keyhole mounting. Distance between screw hole centers shown below.
- 2. Mount the panel back box using the keyhole slots provided.



Wiring to the RDU Panel is done through the knock-outs on the panel back box.

Wiring Diagrams



Note: To meet noise emission standard for CE compliance the comms wire screen must only be connected in the panel side.

NB Do not connect the screen terminal on the RDU panel. Connect screen on the ZP3 main panel only! (for version 102 and greater)

ZP3AB-SCB-D Serial Control Bus Driver Board (Z-Port 3)

This board is used to connect a number of Remote Display Units (RDU's) and Remote Control Units (RCU's) to a ZP3 fire panel. The hardware protocol is a multidrop RS485 screened two-wire connection. The wiring is connected from the ZP3AB-SCB-D board in the ZP3 panel to the SCB connections in the RDU and RCU panels. At the ZP3 panel, the wiring must be terminated. This is done by connecting the jumpers as shown below. All other panels must not be terminated, i.e. their jumpers must be removed.

RS485 line terminations. Normal termination is on the SCB driver, which is housed in the ZP3 panel. The RDU is normally not terminated.

RS485 operates through up to 2000 metres of screened twisted-pair cable. Wiring can be daisychained point-to-point, or can be teed-off or spurred. The total length of cable in the network should not exceed 2000 metres. If the network distances are greater than 2000 metres, then RS485 booster units, or fibre-optic cable, should be used. Refer to the ZP-SCB guide for more information.

The cable is specified in detail in the Ziton Wiring Guide, but as a guideline it should be data quality cable with a conductor size of 0.5mm².