

## ESENTO<sup>®</sup>

REMOTE DISPLAY UNIT

### LCD remote display fire alarm repeater panel

The Esento, LCD remote display repeater panels have the same, easy to use, controls and indications as the main control panels with the addition of a 4 line x 40 character, backlit LCD display.

The remote display units are fully functional with 'Silence', 'Resound' and 'Reset' controls, as well as Disable and Test Mode functions. It is also possible to disable the controls for each or all repeater panels to make them passive (indication only). Up to 8 repeater panels can be supported on a network.

The main circuit board has 2, switch –ve, outputs which provide fire and fault signals. Inputs are available for use as PSU fault inputs. An input for a remote key-switch is also provided.

A nominal 28v dc supply is required to power the remote display units which can be obtained from the control panel or remote power supply unit.



## Features

### Main Features

- 4 x 40 character LCD display
- Full system control
- Fire & fault outputs
- Remote key switch input
- PSU fault inputs
- 28v dc supply input
- USB input for PC program upload/download
- Test mode, with or without sounders
- Disable zones, sounder O/Ps, aux O/Ps & delays

### Technical specifications

Enclosure	1.2mm Mild Steel IP30. Colour ref: MW334E Interpon powder coat
Cable Entry	Via 20mm knockouts located in the top and rear of the cabinet
Dimensions	305mm W x 204mm H x 42mm D
Display	4 x 40 characted backlit LCD display
Input Voltage	Requires 24v dc supply
Inputs	Optional key switch input
Outputs	1 x Fire, 1 x Fault 24v dc outputs
Communication Wiring	Fault tolerant wiring requires 4 core (min 1.5mm) fireproof cable Legacy radial wiring requires 2 core (min 1.5mm) fireproof cable

### Models

XL-RDU	LCD remote display repeater panel
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# Specifications

## Electrical Specification Inputs & Outputs

FIRE OP +/-	A 28v +ve & switched negative output which activates when a fire is present on the network. Current limited to 40mA.
FAULT OP +/-	A 28v +ve & switched negative output which activates when a fault is present on the network. Current limited to 40mA.
28v IP +/-	The RDU requires a 28 volt DC supply input. This can be derived from a control panel output or local battery charger / power supply unit. The repeater consumes around 100mA in normal operation. When deriving from a control panel supply, consideration should be given to battery standby times.
PSU DATA RX/TX	These are normally configured as switch negative fault inputs to collect a fault signal from a local power supply if fitted. They can be programmed to accept data from a compatible PCA12 type power supply unit.
USB	USB type B connector for PC config purposes. Max 5v dc
COMS A	RS485 data comms output to next network panel or repeater. For long cable runs a 120R termination resistor is recommended.
COMS B	RS485 data comms input from previous next network panel or repeater. For long cable runs a 120R termination resistor is recommended.
KEY SW IP/OV	A 0v and input provided for connection of an external keyswitch to enable the controls. A keyswitch can be mounted in a separate box or a link can be fitted to leave controls permanently enabled. In the case of a lost password this input can still enable the controls.
Cabling	The use of fire resistant screened cable, is recommended, FireBurn, FP200 or equivalent. Minimum size 1mm2. Max cable length 1Km Non fire resistant cable can be used, BELDEN 9271 or BELDEN 9860. Maximum cable length 1.2Km

## Quiescent and Alarm Current Details for Standby Battery Calculations

Base Models	Standby Current	Alarm Current
XL-RDU	60mA	89mA