



MINERVA MZX253

Digital Addressable Fire Detection System

Features:

- Long term service and support
- Supports 2 MXDigital loops, expandable to 4 loops
- 250 Addresses per loop
- Deep housing with capacity for up to 38AH batteries
- 2 KM loop length
- 64 way zonal LED display
- High level User Interface with "Front Panel Controls" to reduce lifetime cost of ownership
- Wide range of detectors including the 3oTec triple sensing detection. Early detection without false alarms.
- Optional Slim Line compact 64 zone fully functional 24vdc powered repeater
- Wide range of ancillaries including door control to BS7273 category A
- DDA compliance using the advanced 3000 series AV Base and loop powered sounder beacons.
- Approved to EN54 the system is designed to be installed to BS5839

The Minerva MZX253 is a highly featured digital addressable panel with a comprehensive but easy to operate user interface. The system provides two loops, expandable to 4 loops, each with 250 addresses making it suitable for medium to large sized premises.

The MXDigital protocol is robust enough to operate over most cable types making it an ideal choice for upgrades where existing cables can be reused to dramatically cut costs. The built in power supply will charge the internal batteries and support a full compliment of loop powered sounders and beacons in accordance with the requirements of BS5839. The Minerva MZX253 is a fire detection controller at the heart of a comprehensive fire detection system that can be used to protect both life and property.

A slim line compact 64 zone repeater is available, a maximum of 7 repeaters can be driven from the control panels 2 wire remote bus, the repeater is powered by a 24vdc supply from the main panel or a separate PSU

MINERVA MZX253



Disability Discrimination Act

With Minerva MZX253, compliance with the DDA is uncomplicated and does not require the use of special, high cost detection units. In place of the standard detector base, Minerva MZX253 uses an AVbase that produces a high intensity beacon of light in addition to the audio signal. No additional wiring is required.

The full standard range of MX detectors can be used with the AVBase including 3oTec and flame detection. The result is DDA compliance with flexibility of design and lower lifetime cost. In situations where ceiling mounted beacons would be ineffective in complying with the DDA, wall mounted loop powered beacons and sounder beacons can be incorporated. To ensure that a DDA compliant system remains compliant, Minerva MZX253 can monitor the operation of both sounders and beacons. RSM (Reflective Sounder Monitoring) will alert the user should an alarm fail to operate during the weekly test.

Customer Maintenance Features

MINERVA MZX253 has been designed with the long term interest of the end user in mind. Standard user controls such as view statuses and isolate/de-isolate are simple to use with easy to follow text menus. Customers can also use the comprehensive "Front Panel Updates" feature to carry out many functions for example, change zone and point text or even add and remove devices from the system. This powerful feature gives users the option to take full management control of the fire detection and alarm system.

New Standard for Door Control

Preventing the spread of smoke in the event of a fire is essential and the fire detection panel has to be relied upon to actuate door closure. BS7273 part 4: "Actuation of release mechanisms for doors", defines three category of door actuation. Minerva MZX253 can perform to the highest category "A" making it suitable for the most stringent life risk applications.

3oTec

There is an obligation to comply with legislation such as the Regulatory Reform (Fire Safety) Order or the Fire (Scotland) Bill to ensure the safety of occupants. Similarly the avoidance of disruptive false alarms from the fire detection system is paramount. 3oTec is a triple sensing detector that uses advanced algorithms to intelligently analyse the level of smoke, heat and carbon monoxide. The result is, fires are detected much earlier and false alarms can be eliminated.

MZXDR Repeater

The Minerva MZX64DR is a fully functional repeater that has the full user functionality of the Minerva MZX253 controller itself. Up to 7 fully functional repeaters can be driven from the 2 wire remote bus making installation of repeaters both simple and economical. The repeater is powered by a 24vdc supply from the main panel or a separate PSU.

Technical Specifications

Minerva MZX253 Control Panel & Repeater

Mechanical

Dimensions (mm):	H W D
Panel:	480 x 410 x 205mm
Repeater:	370 x 254 x 84mm
Approx Weight:	
Panel:	10.6Kg
Repeater:	4Kg

Colour

Housings:	RAL 7035
Control Facia:	Pantone Grey 431C

Environmental

Operating Temperature:	-8°C to +55°C
Storage Temperature:	-20°C to +70°C
Relative Humidity:	90% RH continuous (non-condensing)

EMC/RFI:
EN50130-4, EN50081-1

Electrical

Supply Voltage(panel):	230VAC 50/60 Hz
Input Current (panel):	1.6A
Supply Voltage(repeater):	24 VDC
Input Current (repeater):	250mA