

IU2055C

2000 Series Addressable Conventional Zone Monitor (CPD Approved)

General

The IU2055C is an addressable, 2000 Series two-wire zone monitor designed to provide an interface between conventional fire detectors and addressable series 2000/1200 fire panels. The IU2055C enables the addressable panel to monitor the presence and operation of up to 20 conventional detectors in standard or intrinsically safe configurations.

Application

The IU2055C allows for the upgrade and inclusion of an existing conventional fire zone into analogue addressable technology. It supervises the conventional zone circuit for open and short circuits and monitors it for alarm conditions. Any abnormal conditions are reported to the control panel and are indicated on the IU2055C with a yellow fault LED or a red alarm LED. The unit supports alarm verification and reset by cycling power to the zone circuit as directed by the fire panel.

Operation

The IU2055C is connected to the panel via a two-wire communication loop that provides power and carries control and input data. The module address is set with two rotary switches. The address setting is non-volatile and will not be lost in the event of a power failure. The 2000 series conventional zone monitor utilizes an advanced digital data communications protocol that ensures the integrity of the data communication with extensive error correction algorithms.



Standard Features

- Monitors up to 20 conventional detectors
- Zone supervised for open and short circuits
- Supports alarm verification and reset functions
- Loop powered
- Easy numeric addressing
- Supports intrinsically safe applications
- EN54 and CPD certified

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Specifications

Operating voltage	
At loop terminals	18 - 39 VDC
At zone output terminals	14 - 18.5 VDC
Operating current	
Standby	< 15 mA
Alarm	< 35 mA
Remote LED	< 4.5 mA
Maximum zone load current	
	3.5 mA
Maximum zone capacitance	
	< 1 μ F
Maximum zone resistance	
Normal mode	< 100 Ohm
Intrinsic safe mode	< 30 Ohm
End of line resistance	
Normal mode	3.9 k Ohm, 1/4 W, 5%
Intrinsic safe mode	4.3 k Ohm, 1/4 W, 5%
Housing	
Size (l x w x h)	175 x 124 x 51 mm
Material	White plastic
Environmental	
Operating temperature	-5°C to +40°C
Relative humidity (non-condensing)	10 - 95%
IP rating	IP40

Ordering Information

Part No.	Description
IU2055C	2000 Series Addressable Conventional Zone Monitor (CPD Approved)
GBX2000	I.S. Isolated Barrier for Conventional Systems