IU2055NC

Aritech 2000 Series conventional zone monitor unit

Product overview

The IU2055NC is and addressable, 2000 Series two-wire zone monitor designed to provide an interface between conventional fire detectors and an addressable 2000 series protocol fire alarm control panel. The IU2055NC enables the addressable panel to monitor the presence and operation of up to 30 conventional detectors in standard or up to 20 in intrinsically safe configurations.

Application

The IU2055NC allows for the upgrade and inclusion of an existing or new conventional fire zone into and addressable detection loop. 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 IU2055NC with a yellow LED. The unit supports alarm verification and CleanMe™. It resets by cycling power to the zone circuit as directed by the fire panel.

Operation

The IU2055NC is connected to the panel via a two wire communication loop that provides power and carries control and input data. The module address is easily 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.

Details

- Monitors up to 30 standard conventional or up to 20 intrinsically safe conventional detectors
- Zone supervised for open and short circuits
- Supports alarm verification and CleanMe™ functions
- Loop powered
- Easy numeric addressing
- Supports standard and intrinsically safe applications
- CE/CPR certified to EN54:18

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Technical specifications

General

Status indication	Alarm LED, Fault LED
Compatibility	Aritech 2000 Series systems
Addressing method	Rotary switch
Address range	1 to 128

Electrical

Operating voltage	21 to 28 VDC (loop) 17.5 to 18.5 VDC (zone)
Current consumption	<15 mA (standby) <40 mA (alarm) <3.6 mA (remote indicator)

Input

Input quantity	1
Input type and rating	Supervised, 19.4 mA max.
Input states	Active, Normal, Open, Short
Supervisory voltage	17.5 to 18.5 VDC
Termination resistor	3.9 kΩ, ¼ W, 5%
Zone resistance - normal mode	<40 Ohm
Zone resistance - intrinsic safe mode	<26 Ohm

Output

Output quantity	1 (remote indicator)
Output type and rating	Unsupervised, 3.6 mA

Physical

Physical dimensions	175 x 124 x 51 mm
Net weight	325 g
Colour	White
Mounting type	Wall mount
Cable entries	1
Material	Plastic
Cable specification	J-Y(ST)Y 2x2x0,8 rt, EB CY (TP) 2x2x0,75, KAL21A, KAL21B, KAL51A, KAL51B, KAL61A

Environmental

Vandal proof	No
Operating temperature	−10 to +55°C
Storage temperature	−20 to +60ºC
Relative humidity	10 to 95% noncondensing
Environment	Indoor, IS
IP rating	IP40

Regulatory

Compliancy	CE, REACH, RoHS 3, WEEE
Certification	CPR
Standards	EN54-18

Compatible products

Category	Reference	Description
Detection device	ISM-95	2000/900 Series isolator module w/ housing
Interface unit	IO2034NC	Aritech 2000 Series addressable 4 input and 4 output unit
Interface unit	IU2050NC	Aritech 2000 Series addressable 1 input init
Interface unit	IU2080NC	Aritech 2000 Series addressable 1 output unit

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