# 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

| | |
|---|---|
| Power supply type | Alimentato ad anello |
| Operating voltage | 21 to 28 VDC (loop)<br>17.5 to 18.5 VDC (zone) |
| Current consumption | <15 mA (standby)<br><40 mA (alarm)<br><3.6 mA (remote indicator) |

### Input

| | |
|---|---|
| Input quantity | 1 |
| Input type and rating | Supervised, 19.4 mA max. |
| Input states | Attivo, Normal, Aperto, Corto |
| 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 | Hvid |
| Mounting type | Vægmontering |
| 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 | Indendør, 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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