IU2080NC

Aritech 2000 Series addressable 1 output unit

Product overview

The IU2080NC is an intelligent 2000 series, addressable supervised output unit designed for efficient control of notification devices or any ancillary equipment that requires supervision. It is compatible with all fire alarm control panels that support the 2000 series protocol. The high output power available from the IU2080NC ensures meeting most requirements for signalling devices in any fire alarm system.

Operation

The IU2080NC utilizes an advanced digital data communications protocol that ensures the integrity of the data communication with extensive error correction algorithms. It ensures system reliability with continuous supervision and monitoring of the output circuit for open or short circuit conditions, as well as monitoring of the input auxiliary power supply for low voltage or fault conditions. The output circuit supports a continuous or pulsing output that significantly simplifies meeting requirements for differentiation of audible alarms for different alarm circumstances.

Installation

The IU2080NC loop address is set with a simple decimal rotary dial and is non-volatile - the address is not lost in the event of a power outage. The module is simply connected to a compatible fire alarm panel via a two-wire device communication loop that carries both data and operating power to the module. The indicating circuit is powered via a auxiliary power supply.

Programmability

The operation of the IU2080NC is fully configurable from the CIE (control panel) allowing for powerful and extremely flexible output configuration capabilities.



Details

- Versatile, addressable control for notification equipment
- Supervised output circuit with open and short circuit monitoring
- Programmable output with continuous and intermittent functions
- Notification circuit load supplied from an external supply does not load the detection loop
- External supply supervision warns when the supply voltage is low
- Easy decimal numeric addressing avoids address calculation errors and saves installation time
- EN54:18 approved and CPR certified

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Technical specifications

General

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

Electrical

Power supply type	24 VDC, Loop powered
Operating voltage	Fire panel loop: 17 to 28 VDC External supply: 20.1 to 28 VDC, Low voltage detection < 19.7 VDC
Current consumption	Fire panel loop: (standby) <250 µA, <200 µA (typical) Fire panel loop: (active) <3.5 mA External supply: (min) 100 mA External supply: (max) <3 A @ 20°C / <2.04 A @ 55°C

Output

Output quantity	1
Output type and rating	Supervised
Supervisory voltage	1.7 VDC, inverted
Termination resistor	10 kΩ, 5%, ¼ W
Short circuit @ 24 VDC	<4.5 kΩ
Standby @ 24 VDC	<5.5 to 16 kΩ
Open circuit	>20 kΩ
No load current consumption (standby):	<11 mA @ 24 VDC, <12 mA @ 28 VDC
No load current consumption (active):	<69 mA @ 24 VDC, <70 mA @ 28 VDC

Physical

Physical dimensions	175 x 124 x 51 mm
Net weight	325 g
Colour	White
Mounting type	Surface mount
Cable entries	1
Material	Plastic

Environmental

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

Regulatory

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

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