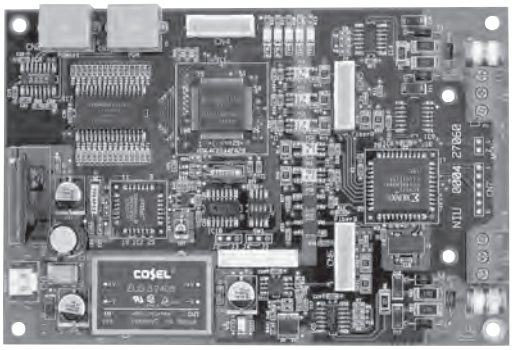
Integlex fire alarm system

Network Interface Unit (NIU) - Part Number PCA-2706XA NIU



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Features:

- UL listed to standard 864, 9th edition
- Max. 64 nodes available on network
- NFPA Styles 4 and 7 wiring applicable
- 6 status LEDs
- Down-sized PC assembly
- Easy installation

Description:

The NIU assembly is the optional component in the FACP system. The NIU is comprised of a central microprocessor, Arcnet controller and memory that allows it to communicate with other FACPs. The NIU communicates with Main Control Unit (MCU) via RS-232C so that the NIU provides MCU with NIU status (i.e. open circuit in wiring for Port A and Port B) and information received from other FACPs on the network. When PC-based Configuration Program (PCCP) is connected to the NIU, the information from PCCP is transmitted to MCU.

The NIU provides the system with an ability to construct the RS-485 network by which communication with other FACPs on the network is capable. The network is comprised of up to 64 nodes so that the system is able to have up to 65,280 addressable devices on the network. Using the optional Fiber-optic Interface Module (FIM) together with NIU provides the system with an ability to use the fiber optic system for the network.

The NIU equips with six status LEDs. The [+5V] LED (green) indicates normal supply of 5 VDC to NIU when it is on. The [TXN] LED (green) indicates normal communication with MCU when flashing. The [TXP] LED (green) indicates normal communication with PCCP when flashing. The [TXD] LED (green) indicates normal communication with network when it is on. The [ATBL] LED (yellow) indicates open circuit in wiring for Port A when it is on. The [BTBL] LED (yellow) indicates open circuit wiring for Port B when it is on.

The 24 VDC power required for NIU operation is supplied from Power Supply Module (PSM) to the NIU. The NIU changes over the 24 VDC to 5 VDC in its DC/DC converter and supplies it to its components (CPU, memory, etc.) for their operation. The 5 VDC power is also supplied to FIM for its operation when the FIM is used in system.

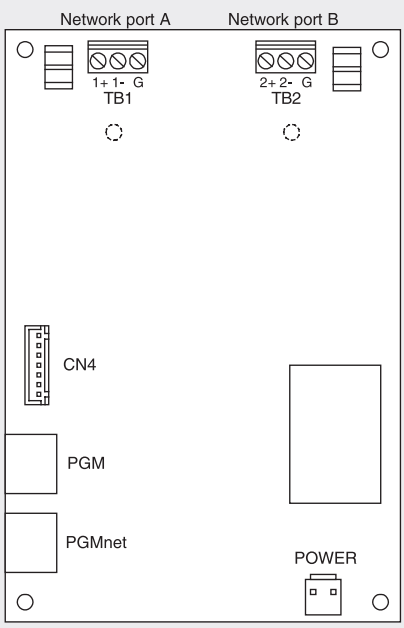
Ordering information:

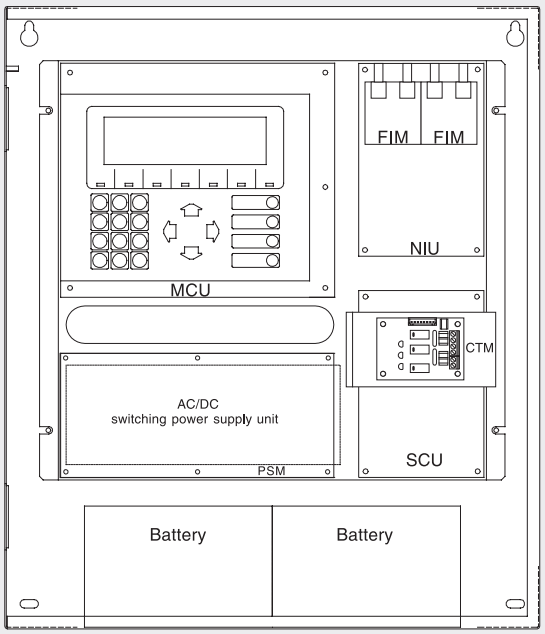
- Part no. PCA-2706XA NIU

Specifications:

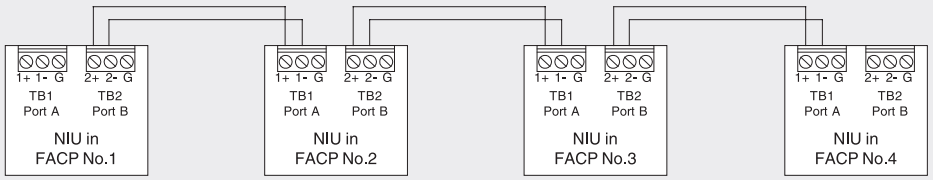
No.	Item	Specification
1	Maximum 24VDC standby current	110 mA
2	Maximum 24VDC alarm current	110 mA
3	Ambient operating temperature range	32 to 120˚F (0 to 49˚C)
4	Maximum ambient operating humidity	85%±5%, non-condensing
5	Network connection	Daisy chain, RS-485
6	Network wiring style	NFPA Styles 4 and 7
7	Maximum no. of node	64
8	Maximum wiring DC resistance	72 Ω
9	Maximum wiring capacitance	80 nF
10	MCU/PCCP connection	RS-232C
11	Dimensions	150mm (5.9") (H) x 100mm (3.94") (W) x 25mm (0.98") (D)

Installation and wiring information:

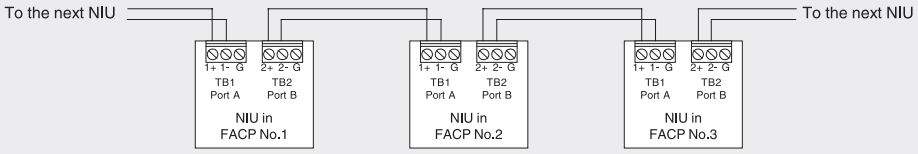




Typical installation in FACP enclosure



Style 4 wiring of network



Style 7 wiring of network

Note:

- These instructions do not purport to cover all the details or variations in the equipment described, nor provide for every possible contingency to be met in connection with installation, operation and maintenance.
- Specifications are subject to change without notice. Contact Nohmi before relying on above specifications.
- Actual performance is based on proper application of the product by a qualified professional.
- Should further information be desired or should particular problems arise, which are not covered sufficiently for the purchaser's purposes, the matter should be referred to Nohmi or a distributor in your region.

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