



PNI Panel Network Interface

General Description

The PNI was designed to act as a buffer and translator between the Series 3000 and 1000 Fire Alarm Control Panels (FACP), and is utilized in the following applications:

- 1. S1000 Interface (PNI-S1K)** The PNI provides a way for a Series 3000 FACP to communicate with Series 1000 FACPs, use S1000 inputs as addressable points, silence and reset an S1000 from the front panel of an S3000, and view the status of the S1000 inputs.

The PNI resides on the S3000 RS-485 network, and communicates with an S1000 over an RS-232 cable. The S1000 must be a "plus" model, with an SCP1 installed. The SCP1 provides the RS-232 interface to the PNI, as well as a local RS-485 network, which can be used for adding FZA, TZB, or RAN devices.

Power comes to the device through one of the S1000's 24VDC outputs. The PNI provides isolation between the S3000 network and the S1000, preventing ground fault troubles on both panels. Using the PNI, the S3000 can silence and reset the S1000 panel, but is not able to control the S1000 NAC or relay outputs.

Standard configuration is one PNI board per S1000. The PNI device is provided as a bare board, suitable for mounting in snap-track.

- 2. Serial Printer Interface (PNI-PRN)** The PNI acts as an interface between an S3000 panel and a serial printer.

The PNI resides on the S3000 RS-485 network, and communicates with a printer over an RS-232 cable. Power comes to the device via a wall transformer. The PNI requires a 24VDC input. The device is provided as a bare board, suitable for mounting in snap-track. Standard configuration is one PNI board per printer.

Addressing

The PNI provides addressing for up to 24 S1000s, or up to 32 printers. Like any other device, the PNI is scanned from the network menu. Default properties will be assigned to each input point. In the case of the PNI-S1K, S1000 points are allocated according to a fixed address scheme. (See chart below.)

PNI-S1K Addressing Scheme			
S1000	PNI Network Address	Loop	Point Range on S1000
PNI-S1K #1	80	A	001 – 020
PNI-S1K #2	81	A	021 – 040
PNI-S1K #3	82	A	041 – 060
PNI-S1K #4	83	A	061 – 080
PNI-S1K #5	84	A	081 – 100
PNI-S1K #6	85	A	101 – 120
PNI-S1K #7 – 12	86 – 91	B	001 – 120 (20 per addr)
PNI-S1K #13 - 18	92 – 97	C	001 – 120 (20 per addr)
PNI-S1K #19 - 24	98 – 103	D	001 – 120 (20 per addr)

Specifications

Physical

Dimensions

10" x 2.75"

Electrical

Input Power

24 VDC

Maximum Total Line Capacitance for Communications

0.3 μ F

Maximum Total Line Resistance for Power and Communications

50 Ohms

Diagram

