PERTRONIC INDUSTRIES LTD

DATASHEET

Network Control Unit (NETCUN)

Overview

The Pertronic Network Control Unit (NETCUN) allows remote control and monitoring of a network of Pertronic F100A and F120A analogue addressable fire panels.

The NETCUN allows full control and monitoring of any individual panel on the network. The unit communicates directly with selected control panels.

The NETCUN performs the same functions as the fire panel's keyboard-display.

Each NETCUN must be connected to a dedicated network card (NETCD-NCU) and will operate in 'Full Duplex' mode.

The NETCUN can operate as a stand-alone display unit remotely from the panel. Alternatively, it can also replace the panel display and be mounted within the panel itself.

Features

- Large graphics LCD display with backlighting
- Three LEDs to indicate 'Fire', 'Defect' and 'Normal' status
- Three Network status LEDs to indicate 'Fire', 'Defect' and 'Normal' status of remote network panels
- Local buzzer with external buzzer output
- Low Power consumption

Door Open Access

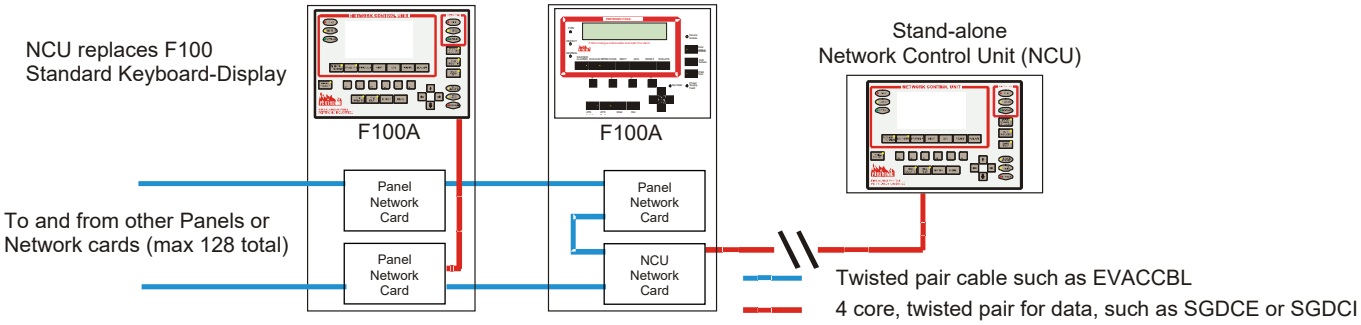
- Silence Alarms' switch cancels the sounder circuits across the entire network
- 'Evacuate' switch operates the 'Sounder' (bells) circuits across the entire network
- 'Previous' and 'Next' switches used to navigate through current event queues
- 'ACK' switch Alarm and operation acknowledge facility
- 'Reset' switch resets the displayed device in alarm after an activation
- 'Isolate' switch isolates and de-isolates loop devices from the 'Alarm', 'Defect' or 'Isolate' queues
- 'Door Holder' and 'Auxiliary Isolate' pushbuttons with indicators, for network wide isolation or deisolation of dedicated outputs
- 'Walk Test' pushbutton with indicator, for use in direct communication with a control panel
- 'ATS Isolate' and 'ATS Test' pushbuttons, for isolation of the monitoring service

Note: The Pertronic Network Control Unit (NETCUN) is not compatible with the F220/Net2 Network. (Please refer to the F220/Net2 LCD Mimics datasheet)

Specification

Operating Voltage		27.4 Vdc from RS485 Bus
Current	**Quiescent**	15 mA @ 24 Vdc, back light and buzzer off
	Alarm	37 mA @ 27.4 Vdc, back light and buzzer on
Operating Temperature		0 to +30 °C
Operating Environment		10 to 95% RH (non-condensing)
Mimic Communications	**+**	+24 Vdc
	-	0 V
	A	Data 'A' Leg
	B	Data 'B' Leg
Dimensions		232 x 50 x 375 (L x H x D mm)
Weight		3.2 kg

Connection Diagram



Installation and Commissioning

- Wire SGD Cable (DC Supply and RS-485 twisted pair) from the Network Card to the Network Control Unit connector K1
- Connect a 470Ω resistor across the A and B terminals of K2 to provide End-of-Line termination on the NCU
- Set address links - the only valid Address is 1 (jumper fitted at J1, pin 1)
- Configure the network using the Network Utility

Ordering Information & Notes

Product Code	Description
NETCUN	Network Control Unit (NZ) in F120 Full Function Mimic
NETCARD	Network Card-F100/F220 Panels/LED Mimics
NETCD-NCU	Network Card for Netwrok Control/Display Unit
SGDCE	SGD Ext.Cable 0.5mm 1PR+1.13 2C Jell Filled (500m Drum)
SGDCI	Mimic Cable Internal 0.8mm/0.8mm (250m Drum)
SGDCIFR	SGD Cable Internal Fire Rated (50m Drum or 100m Drum)