Networkable Central Control Module (CCM)

Kidde Fire Systems
A UTC Fire & Security Company

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K-76-233

FEATURES

- ***System Central Processing Unit***
- ***Optional Network Interface Card (NIC)***
- ***Up to 32 Central Control Modules Per Network***
- ***Peer-to-Peer Operation***
- ***Optional Remote Displays/Controls***
- ***Nonvolatile EPROM Program Memory and Event Log***
- ***Programmable Release, Signal, and Relay Outputs***
- ***Real-Time Clock***
- ***Event and Time-Based Programming***
- ***Up to 6100 Event History Buffer for Multi-Loops***
- ***Two RS-232 Serial Ports***

DESCRIPTION

The Networkable Central Control Module (NCCM) is the heart of the PEGAsys™ system and is composed of two PCB assemblies: the display control module and the CCM Printed Circuit Board (CCM PCB). The CCM PCB can accommodate the optional Network Interface Card (NIC). The display control module provides connections to the optional Remote Display Control Module (RDCM) and Remote Display Module (RDM).

CONFIGURATION/FUNCTION

The microprocessor of the CCM controls the operation and supervision of all the system modules and field devices within the PEGAsys system. It receives local signaling line circuit data from the RX/TX module and network data from the optional NIC and processes the data based on pre-programmed instructions. It transmits activation commands to the output modules, optional NIC remote display modules and its local display control module. This comprehensive event and/or time based input/output control is entered via PEGAsys Configuration Software (PCS) programming.

In addition, the main processor module contains the system's real-time clock, watch-dog timer and two serial RS-232 ports: the programming input/output and the remote printer ports. These ports accept 6-wire, RJ-12 modular connectors. The PCS program is used to configure the system. A multi-level password scheme protects the system from unauthorized access.

The real-time clock provides the NCCM with the ability to display the current time and date on the system LCD and to control the system with time-based operation via the PCS programming capability.

Internal diagnostics enhance the troubleshooting ability of the system. Examples include: microprocessor failure, memory failure, RS-232 port troubles, etc. Network diagnostics are separately controlled and report to the affected control units.

Two individually-programmable notification appliance circuits (MP1 and MP2) provide up to 2.0 Amps of 24 Vdc power for horns, bells and strobes. The MP1 output can be optionally programmed for releasing solenoid type suppression equipment (agent and sprinkler).

Two individually programmable relay outputs (MP3 and MP4) are provided on the NCCM for controlling building functions during alarm occurrences. Relays are single-pole, form C, rated for 1 Amp @ 30 Vdc.

All four NCCM outputs (MP1 to MP4) can be programmed via PCS to activate from local initiating events or from network initiating events, if networking is used.

One non-programmable trouble relay is supplied that is normally powered and will transfer on any system (or, if provided, network) trouble, supervisory and pre-alarm condition. The relay is single-pole, form C, rated for 1 Amp @ 30 Vdc.

An event-history buffer is provided on the NCCM that will store 1024 entries for single loop and 6100 entries for multi-loop systems. The network option does not alter event limits. However, network events are recorded. The system menu permits operator retrieval of recorded events. The PCS program provides the ability to download, store and print all or part of the event-history buffer.

The display module of the NCCM is physically and electronically attached to the CCM PCB and provides the system with the operator panel for control switches, system-status LEDs, system trouble/alarm buzzer, an 80 character (2 x 40) LCD display and an integral numeric keypad. The keypad is used for entering the security password and navigating through the user menus. This capability is duplicated on RDCMs. The system (and RDCM) buzzer provides two distinct signaling patterns for audible warning of system alarms and troubles.

The NCCM is available in two versions: P/N 76-100008-501 for single-loop and P/N 76-100008-600 for multi-loop operation.

SPECIFICATIONS

NCCM Standby Input Rating (less NIC):	24 Vdc, 0.25 Amps Max.
NCCM Alarm Output Rating (less NIC):	24 Vdc, 4.00 Amps Max.
Notification Appliance Circuits (MP1 and MP2):	Class B, Style Y or Class A, Style Z, 2 Amps @ 24 Vdc (each)
Optional MP1 Releasing Output:	Solenoids only
Relay Contact Rating:	1 Amp @ 30 Vdc
Trouble Relay Rating:	1 Amp @ 30 Vdc
RS-232 Ports (2 provided):	
Character Code:	ASCII
Transmission Rate:	9600 Baud
Word Length:	8 Bits
Parity:	None
Stop Bits:	1

ORDERING INFORMATION

Description	Part Number	Weight
Networkable Central Control Module, Single Loop (Version 71.0 Firmware)	76-100008-501	2 lb.
Networkable Central Control Module, Multi- Loop (Version 71.0 Firmware)	76-100008-600	2 lb.
Networkable Central Control Module, Single Loop (Version 81.1 Firmware)	76-100008-701	2 lb.
Networkable Central Control Module, Multi- Loop (Version 81.1 Firmware)	76-100008-800	2 lb.

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Kidde Fire Systems
A UTC Fire & Security Company
400 Main Street
Ashland, MA 01721
Ph: 508.881.2000
Fax: 508.881.8920
www.kiddefiresystems.com