Effective: June 2007

FenwalNET™ 2000 Networkable Central Control Module (NCCM)

FENWAL® Protection Systems

A UTC Fire & Security Company

F-74-233

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 logic programming**
- **6100-event history buffer for multi-loops**
- **Two RS-232 serial ports**

DESCRIPTION

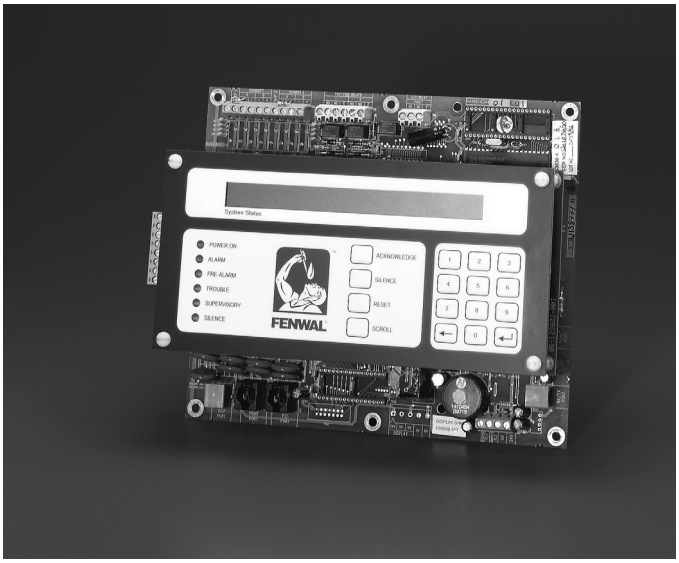
The Networkable Central Control Module (NCCM) is the heart of the FenwalNET™ 2000 system and is composed of two PCB assemblies—the display control module and the CCM printed circuit board (CCM PCB). The CCM PCB can accommodate the optional network interface card (NIC). The display control module provides connections to the optional remote display control module (RDCM) and remote display module (RDM).

CONFIGURATION/FUNCTION

The CCM's microprocessor controls the operation and supervision of all the system modules and field devices within the FenwalNET 2000 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 FenwalNET Configuration Software (FCS) programming.

In addition, the main processor module contains the system's, real-time clock, watch-dog timer and two serial RS232 ports - the programming input/output, AnaLASER Intelligent Interface Module (IIM) interconnect and the remote printer ports. These ports accept 6-wire, RJ-12 modular connectors. The FCS program is used to configure the system. A multilevel 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 FCS 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 & 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 solenoids (agent and sprinkler).

Two individually programmable relay outputs (MP3 & 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 - MP4) can be programmed via FCS 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. 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 FCS program provides the ability to download, store and print all or part of the event-history buffer.

The NCCM's display module, physically and electronically attached to the CCM PCB, provides the system with the operator panel for control switches, system-status LEDs, system trouble/alarm buzzer, an 80 character (2x40) 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 74-200008-501 for single-loop, and P/N 74-200008-600 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 & MP2):
Class B, Style Y or Class A, Style Z

SIGNAL OUTPUT RATING (MP1 & MP2):
2 Amps @ 24 VDC (each)

OPTIONAL MP1 RELEASING OUTPUT:
Solenoids only

RELAY CONTACT RATING (MP3 & MP4):
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

NETWORKABLE CENTRAL CONTROL MODULE
P/N 74-200008-501 (Single Loop)
P/N 74-200008-600 (Multi-Loop)

WEIGHT
2 pounds

F-74-233 Rev AB Printed in USA

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