

# FenwalNET-2000

## Central Control Module

Effective: August 1999

# FENWAL®

74-201

### FEATURES

- System Central Processing Unit (CPU)
- Fail Soft™ Operation
- Nonvolatile EPROM Program Memory
- programmable signal Outputs
- Programmable Agent Release Output
- Programmable Relay Outputs
- Real Time Clock
- 1000+ Event History Buffer
- Two RS-232C Serial Ports
- FenwalNET Configuration Software (FCS) Programmable

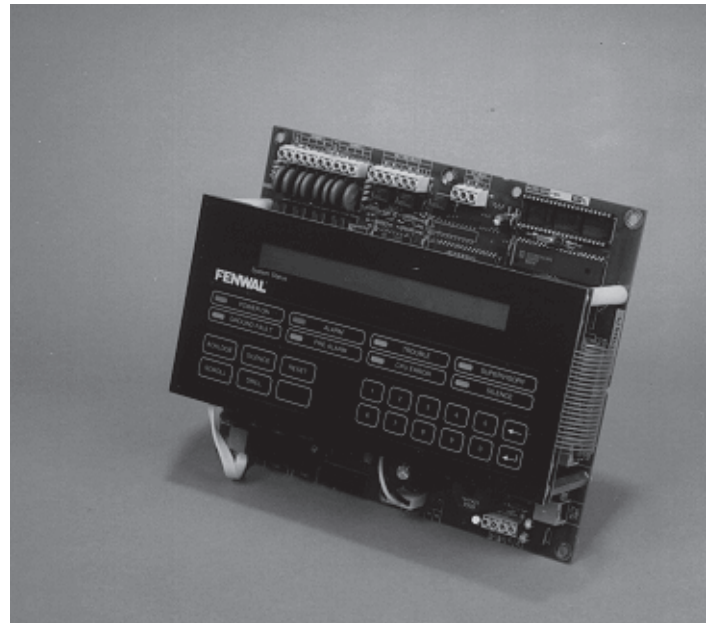
### DESCRIPTION

The Central Control Module (CCM) provides the FenwalNET 2000™ with central control capacity. The CCM also provides two independently programmable signal outputs and two independently programmable Form "C" relay contacts along with a general trouble contact which activates upon any system trouble condition. The CCM interfaces to the Rx/Tx module which provides all status information on connected field devices. Upon receipt of a field device status change(s), the CCM will evaluate it's unique Event Output Control (EOC) programming and activate any outputs which are related to the active input(s).

A watchdog timer circuit provides supervision of the microprocessor for proper operation. Should the microprocessor fail, the watchdog circuit would initiate a CPU error which would alert the system operator of the failed condition. Through the use of the unique Fail Soft™ operation, the CCM can still activate outputs in the event of an alarm during the failed condition. This feature ensures maximum system reliability.

System configuration and programming are performed using the FenwalNET Configuration Software (FCS) program. The FCS program is a Windows™ based configuration/programming utility which provides the installer the convenience of completing the configuration off-line and then uploading the system information to the panel to complete the system programming. The FCS program functions allow the installer to tailor the system operation to each particular application.

The system programming is stored in the CCM's nonvolatile memory. Even in the event of total power loss (AC and battery), all the contents of the memory, including time and date settings are retained. Upon restoration of power, the system will operate as previously programmed. All system status changes are logged into and retained by the event history buffer which is capable of maintaining 1000+ events. The history buffer is a nonvolatile memory device which maintains the history information in the event of complete power



loss. Events are time and date stamped for post event analysis. The system menu allows the user to specify either all of the events or a range of events to be displayed or printed.

The CCM contains internal diagnostics which enhance troubleshooting with distinct messages for fault conditions for the CCM inputs/outputs, power supplies, I/O modules and field devices. The distinct messages allow the user to identify the exact system component which is experiencing the fault condition.

The EOC program provides the installer with the ability to relate system inputs to system outputs in a very flexible manner. The program provides logical operators which allow the system to be tailored to meet any Fire Alarm/Fire Suppression application requirement. Once difficult suppression release sequences can be accomplished with minimal effort. The system supports optional release abort input and manual release input functions with ease.

The Real Time Control (RTC) Program provides the installer with the ability to control system functions in relation to time of day, day of week and month of year. System functions which are capable of being controlled are SmartOne™ detection device set point levels and addressable relay output state.

Two RS-232C serial ports are available. One is used for programming and monitoring using the FCS program. A second is used for a remote printer connection. When activated, the serial ports supervise the connection of an active device. Upon disconnection, they will raise a trouble condition on the system. Both RS-232C ports are isolated to protect against ground fault conditions caused by connected equipment.

The CCM assembly is made up of the main processor PCB, and the display/control PCB in a sandwich style mounting arrangement. The main processor has the CPU, memory and I/O capabilities. The Display/Control provides the operator interface to the system. This assembly provides system status LEDs, control switches, an integral keypad and an 80 character backlit liquid crystal display. Using the integral keypad, a user can gain access to the password protected user's menu. The user's menu allows the operator to interrogate the system for information such as detection device set points, I/O Module assignments, alarm lists, trouble lists and other pertinent system information.

The display and control module provides a remote repeater function allowing up to 15 display and control modules to be linked together. The remote repeaters provide the same functionality as the main panels display and control module. The remote unit is mounted in its own enclosure to ensure only authorized users gain access.

The display and control modules can also be used to provide a remotely mounted display which is the same as the panel mounted unit. The remote unit is mounted in its own enclosure and is password protected to ensure that only authorized users gain access.

## INSTALLATION

The CCM assembly mounts directly onto studs provided in the FenwalNET 2000 main system enclosure.

## TECHNICAL INFORMATION

CCM Standby Input Rating	24 VDC - 0.25 Amps (Max.)
CCM Alarm Input Rating	24 VDC - 4.25 Amps (Max.)
Signal Output Style	Style "Y" or "Z"
Signal Output Ratings	24 VDC, 2 Amps each
Relay Contact Rating	1 Amp @ 30 VDC
Trouble Relay Rating	1 Amp @ 30 VDC
Operating Temperature	32 - 120°F

### RS-232C Port (Two provided)

Character Code:	ASCII
Transmission Rate	9600 Baud
Word Length	8 Bits
Parity	None
Stop Bits	1

## ORDERING INFORMATION

Part Number	Description
74-200008-001	Central Control Module Assembly
06-129520-001	EOL Resistors (Package of 50)

## CCM SHOWING INPUTS AND OUTPUTS

