

Intelligent Communications Module (ICM) Device Server

Effective: January 2008

For Remote Internet Access

F-74-603

SmartOne®

FEATURES

- Compatible Control Unit Access via the Internet or an Intranet
- Centralized Access to All Networked Control Units
- Supports Access via any Web Browser
- Standard Ethernet-over-IP Connection
- E-mail Notification of System Events, such as Alarms, Troubles, and Supervisories
- Intuitive User Interface
- Built-in Password Protection
- TCP/IP MODBUS Protocol Access

DESCRIPTION

The Intelligent Communications Module (ICM) is a device server that provides Internet access to the compatible control unit via any standard Web browser such as Internet Explorer or Netscape Navigator.

The ICM provides the following client services:

- dial-up control-unit monitoring and status reporting
- automatic event detection and reporting via e-mail
- Web-browser-based
 - emulated display for the control unit
 - access to items in the control unit's List Menu.

The emulated display for the control unit is shown below:

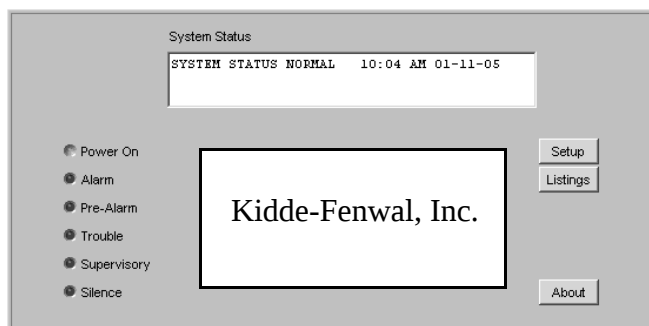


Figure 1. Emulated Control-Unit Display

Authorized users can view the compatible system event history, status, and device properties. Viewing system information requires password-protected interaction with the control unit.

Note: No system control functions are permitted. The ICM is an ancillary device and is not intended for primary reporting.

You can use the ICM to list the following information:

- isolated SLC devices or control-unit-based outputs
- event logs



- detector sensitivities
- active events
- EOC program
- SLC assignments
- SLC-device voltage levels
- battery charge
- on-board-outputs configurations
- remote display/control modules.

You can save any or all of this data in standard ASCII text files that can be viewed with Windows® Notepad, Word, and other applications.

The ICM connects to the Internet via an Ethernet jack. The Ethernet Local- or Wide- Area Network (LAN/WAN) can be a dedicated LAN/WAN or the user's existing LAN/WAN network as shown in Figure No. 2.

E-MAIL OFF-PREMISES REPORTS

You can alert users and service personnel via e-mail when alarms, troubles, or supervisory events occur in a compatible system using an ICM without overwhelming them with superfluous messages.

The ICM's off-premises-reporting system groups events into two broad categories—alarms and troubles/supervisories. In addition, the system associates events with time intervals and sends only one e-mail per interval. Details about the system event that caused an off-premises report can be viewed in the ICM Listings screen. Each off-premises report contains a hyperlink that automatically communicates with the ICM and control unit that initiated the report.

EVENT SELECTION

You can select whether e-mail off-premises reports are sent for alarms, troubles/supervisories, both, or neither. This selection applies to all e-mail recipients.

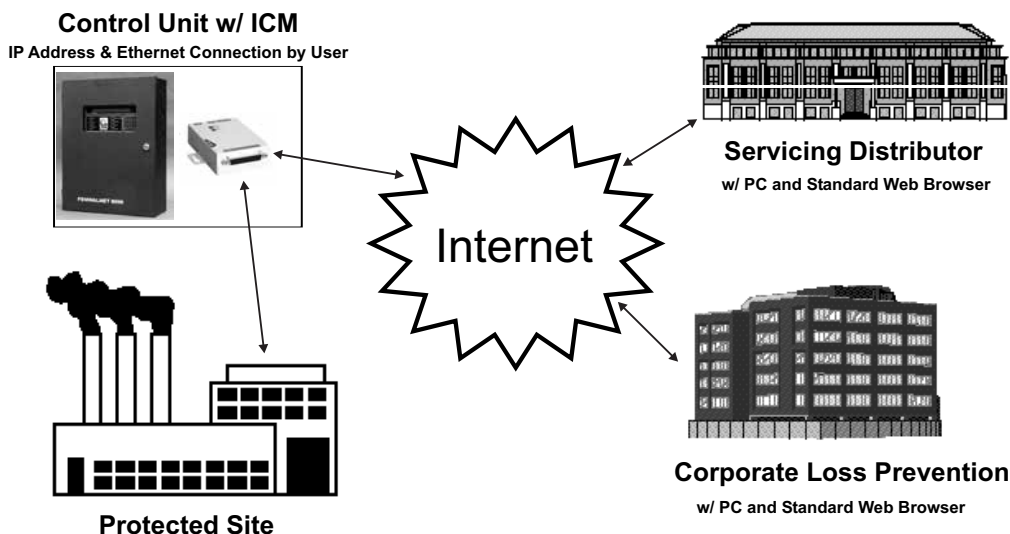


Figure 2. Typical ICM Application

PRIORITY

Alarms have a higher priority than troubles/supervisories. Subsequent alarm, trouble, and supervisory off-premises reports will not be sent within the guard interval described below if an alarm report has already been transmitted. However, an alarm notification will be sent and a new guard interval will be established if a trouble/supervisory report has been sent and a subsequent alarm occurs.

GUARD INTERVAL

The guard interval is the period of time during which no further off-premises reports of the same or lower priority are sent. The interval is user selectable in 2-, 4-, 8-, or 24-hour periods. The guard interval starts when an off-premises report is sent. One of two conditions will exist at the end of the guard interval. Either all events have been cleared or events remain active. The system enters a state where it waits for the next event if all events have been cleared. The system sends a "reminder" report and extends the guard period by one guard interval if events are still active. This cycle occurs indefinitely until all events are cleared. Only a single reminder is sent per guard interval even though there may be a mixture of alarms and troubles/supervisories active. The reminder message will show the control unit that has an alarm or trouble/supervisory and will indicate that this is a reminder message. It will contain a hyperlink to the control unit's ICM where you can see detailed status information and event history.

TROUBLE NOTIFICATION DELAY

The system waits 10 minutes before sending an off-premises report when a trouble or supervisory event is first detected. A report is sent, subject to the rules stated above, if the trouble/supervisory still exists at the end of this time. This prevents off-premises reports being sent as a result of maintenance operations and transient conditions.

E-MAIL TESTING

The e-mail off-premises-reporting feature can be tested on-line by clicking the Test button on the ICM's Software Setup screen. This sends a test e-mail to each recipient, in order to verify correct operation of the e-mail server and routing to each recipient. The system can also be set to send a test e-mail periodically during normal operations in order to verify correct operation. The test interval is a user-selectable period of 1, 7, 30, 90, or 365 days.

ORDERING INFORMATION

Part Number	Description
06-220080-002	ICM Device Server

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SmartOne®

KIDDE-FENWAL INC.
400 MAIN STREET, ASHLAND, MA 01721
TEL: (508) 881-2000 FAX: (508) 881-8920
www.Kidde-Fenwal.com