Effective: June 2007

Intelligent Interface Module Stand-Alone

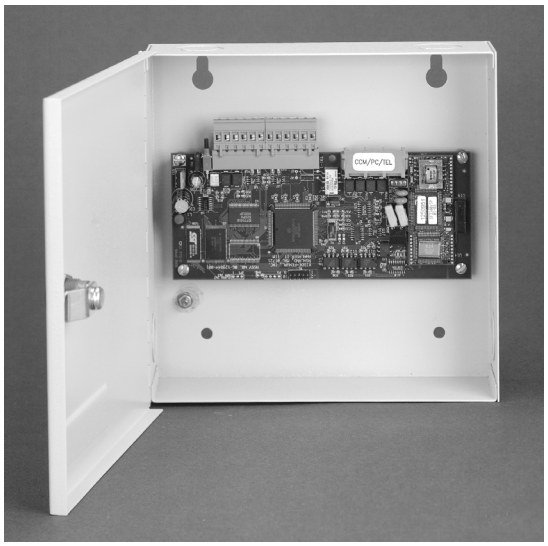
For AnaLASER® II Detectors

FENWAL® Protection Systems
A UTC Fire & Security Company

F-89-254

FEATURES

- **UL Listed**
- **FM Approved**
- **ULC Listed**
- **CSFM Listed 7259-1076:167**
- **NYC MEA Approved MEA 60-02-E**
- **Beige Enclosure for Stand-Alone Operation**
- **Network up to 127 AnaLASER® II Detectors**
- **Complete Field Configuration and Monitoring of AnaLASER II Detectors via Local or Remote Computer**
- **Optional FCC Approved Built-in Modem**
- **Optional Automatic Dial-up of 3 Field Programmable Telephone Numbers on Alarm and Trouble Events**
- **Auxiliary Alarm and Trouble Inputs for Monitoring of Fire Alarm Panels**



DESCRIPTION

The Intelligent Interface Module (IIM) provides a communication link that networks up to 127 AnaLASER® II Detectors to a FenwalNET™ 2000 Control Panel. A computer running LaserNET™ Version 3 software can communicate with the IIM either through a local computer or a remote computer via a modem. This allows the AnaLASER II Detectors to be completely configured and monitored from a central location. Connection of an optional telephone line allows interrogation of the system with a remote computer or automatic dial-out to a remote computer on the occurrence of any AnaLASER II Detector alarm or trouble condition. When used in Stand-alone mode the IIM auxiliary alarm and trouble inputs can be optionally used to monitor any control panel for common alarm and trouble conditions. This alarm and trouble input can be displayed using LaserNET.

RS-485 NETWORK

The RS-485 network connects up to 127 AnaLASER II Detectors to the IIM. Each Detector is assigned an address on the RS-485 loop via a dip switch located inside the Detector. The RS-485 network can be wired for either Style 4 (Class B) or Style 6 (Class A) with a maximum loop length of 4,000 ft. (1219 m). Removable terminal blocks on the IIM will accept from 18 to 12 AWG twisted shielded pair wiring. The RS-485 network wiring connects directly to the network terminals located in the Detector, without the need for additional hardware or software.

Alarm and trouble conditions, detector configuration, real-time smoke and airflow levels and smoke history is transmitted from each Detector over the RS-485 network to the IIM. All network data can be monitored or controlled from a central location using LaserNET software on either a local computer or a remote computer via a modem.

INTERFACE TO A FIRE ALARM PANEL

The IIM does not report detector alarm and trouble conditions to the fire alarm panel. Each AnaLASER II Detector's alarm and trouble contacts must be wired to the fire alarm panel's initiating zone. A trouble relay on the IIM allows the fire alarm panel to monitor any fault in the IIM or its RS-485 network. The trouble relay will also activate if the IIM loses power. The supervised Auxiliary Alarm and Trouble contact inputs on the IIM can be used to monitor the relay contacts on any fire alarm panel for ancillary annunciation of common alarm and trouble conditions. These inputs can be displayed on a local computer or on a remote computer running LaserNET software.

MONITORING AND CONTROL VIA MODEM

The IIM is available with an optional FCC Approved modem for remote monitoring and control via a phone line. This feature provides a technician with the ability to dial into the IIM from a remote computer to view real-time smoke and airflow levels, check detector configurations and download history from each AnaLASER II Detector. The IIM can be programmed to automatically dial a remote computer using up to three preset telephone numbers on the occurrence of any AnaLASER II Detector alarm or trouble condition, or fire alarm control panel or

trouble input. If a successful connection is not established at the first number, a second and third alternate telephone number will be used if programmed.

IIM PROGRAMMABLE PARAMETERS

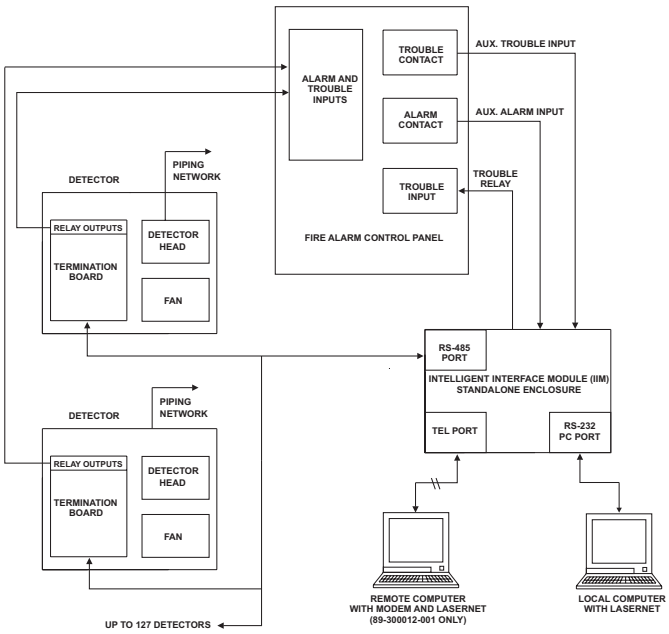
The following field-programmable parameters are configured through the LaserNET software. The parameters are stored in non-volatile memory to ensure that no programming will be lost during a complete power failure.

- Three telephone numbers for auto-dial sequence
- Twenty character owner location message
- Installer password
- Owner password
- Dial tone supervision enable/disable
- Auto dial function enable/disable
- Configuration of RS-485 Network for Style 4 or Style 6
- Trouble report delay
- Security call back scheme enable/disable
- Call back phone number

TECHNICAL SPECIFICATIONS

Input Voltage:	24 Vdc nominal (20.4 to 28 Vdc)
Maximum Input Current:	70 mA (normal), 80 mA (alarm), 200 mA (with modem active)
Operating Temperature:	32° to 120°F (0° to 49°C)
Operating Humidity:	10 to 93% RH, non-condensing
Electrical Connections:	18 to 12 AWG (0.75 to 2.5 mm^2) wiring to removable terminal block. PC, CCM, and TEL connections via RJ12 Jack.
Enclosure Finish	Painted steel enclosure with keylock
Trouble Relay	Form C, 2A at 30 Vdc
Auxiliary Inputs	Auxiliary alarm and trouble input, Class B
Shipping Weight:	3.9 lb. (1.8 kg)
Dimensions:	8-13/32 in. W x 8-1/4 in. H x 2-1/2 in. D (213 mm W x 210 mm H x 64 mm D)

IIM BLOCK DIAGRAM



ORDERING INFORMATION

Component	Part Number
Intelligent Interface Module, Stand-Alone	89-300013-001
Intelligent Interface Module, Stand-Alone, with modem	89-300012-001

NOTES

- For networking with FN-2000 panel, use FN-2000 mounted IIM P/N 89-300014-001 or 89-300015-001 (refer to data sheet F-89-253).
- For networking with FN-6000 panel, use IIMs in blue enclosure P/N 74-600000-012 or 74-600000-013 (refer to data sheet F-89-259).

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