

Intelligent Interface Module, FN-2000 Mount

Effective: August 2002

For AnaLASER® II Detectors

89.253

FENWAL®

FEATURES

- UL Listed
- FM Approved
- CSFM Listed 7259-1076:167
- NYC MEA Approved MEA 60-02E
- Mounts Inside FN-2000 Cabinet Onto the I/O Card Mounting Brackets
- 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
- Supervised Communication to the FN-2000 Central Control Module (CCM)
- Remote Monitoring of FN-2000 Menus

DESCRIPTION

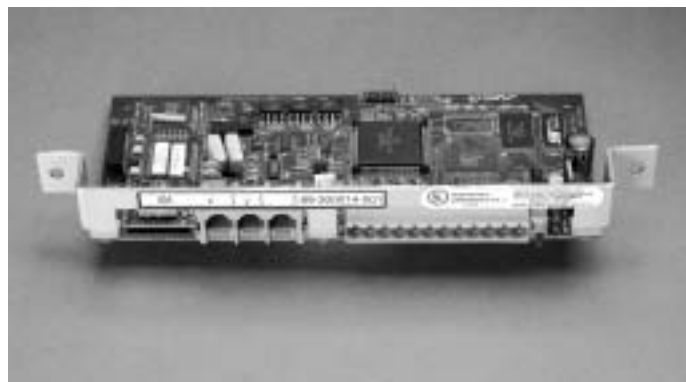
The Intelligent Interface Module is the communication link that networks up to 127 AnaLASER® II Detectors to a FenwalNET™ 2000 Control Panel. A computer running LaserNET™ Version 3 software can communicate with the IIM either through a local computer or a remote computer via a modem. This allows the AnaLASER II Detectors to be completely configured and monitored from a central location. The IIM allows the AnaLASER II Detector and FenwalNET products to be networked together to create an intelligent high-sensitivity smoke detection and fire alarm control system.

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 feet. 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.



COMMUNICATION TO THE FN-2000

The IIM and FN-2000 panel communicate through a fully supervised, bi-directional RS-232 data loop that provides a link allowing the two alarm levels, two pre-alarm levels and multiple trouble conditions to be transmitted from each AnaLASER II Detector and displayed on the CCM. When an alarm or trouble condition is received, the FN-2000 panel will activate pre-programmed outputs associated with the alarm or trouble inputs. Refer to the FenwalNET Configuration Software Manual (FCS), P/N 74.225, for further information.

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 FN-2000 common alarm 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.

The FN-2000 text menu can be accessed through an optional window within the LaserNET software or through any remote computer running a terminal emulation program. This provides a technician the ability to navigate through the FN-2000 menus to view current alarm and trouble conditions, interrogate history or check current panel configuration.

IIM PROGRAMMABLE PARAMETERS

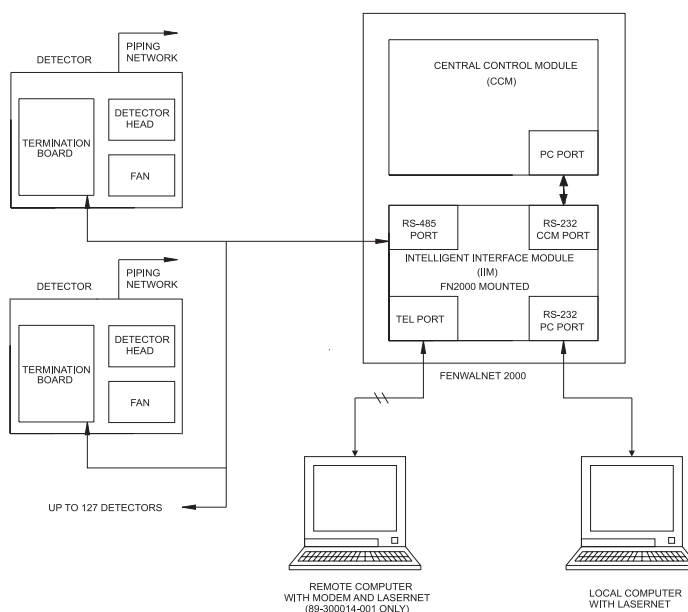
The following field-programmable parameters are configured through the LaserNET software. The parameters are stored in non-volatile memory to ensure that no programming will be lost during a complete power failure.

- Three telephone numbers for auto-dial sequence
- Twenty character owner location message
- Installer password
- Owner password
- Dial tone supervision enable/disable
- FenwalNET interface port 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 SPECIFICATION

Input Voltage:	24 Vdc nominal (powered from FN2000)
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 RJ-12 jack.
Shipping Weight:	0.6 lb. (0.3 kg)
Dimensions:	1.1" W x 8.5" H x 3.5" D (2.8cm W x 21.6cm H x 8.9cm D)

IIM BLOCK DIAGRAM



ORDERING INFORMATION

COMPONENT	PART NUMBER
Intelligent Interface Module, mounts in an FN-2000, connects to the CCM	89-300015-001
Intelligent Interface Module, mounts in an FN-2000, connects to the CCM, with modem	89-300014-001



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