NYC Department of Buildings
280 Broadway, New York, NY 10007
Patricia Lancaster, FAIA, Commissioner
(212) 566-5000, TTY: (212) 566-4769

Report of Materials and Equipment Acceptance Division

Pursuant to Administrative Code Section 27-131, the following equipment or material has been found acceptable for use subject to the terms and conditions contained herein.

MEA 60-02-E Vol. 3

Manufacturer:	Kidde Fenwal, Inc., 400 Main Street, Ashland, MA 01721
Trade Name(s):	Fenwal
Product:	AnaLASER II High Sensitivity Smoke Detection System
Pertinent Code Section(s):	Article 6, Section 27-978 through 27-981, Reference Standards RS 17
Prescribed Test(s):	UL Standard 268, 268A and UL 1481
Laboratory:	Underwriters Laboratories Inc.
Test Report(s):	UL Reports: UL S1064, Project 00NK29213, Volume 19, Section 1, issued June 28, 2001, revised March 3, 2006

Description: The AnaLASER II High Sensitivity Smoke Detection (HSSD) system is intended for early warning smoke detection applications such as telecommunications facilities, data processing facilities, museums and warehouses. For use with compatible approved fire alarm controls. One AnaLASER II HSSD system, when connected to pipe network designed using “SNIFF” software, provides coverage for an area up to 20,000 sq. ft.

The AnaLASER II HSSD system consists of an air sampling pipe network, a laser-based high-sensitivity standard detector (with a dynamic sensitivity range of 0.00075% to 0.3% ft. obscuration) and a high efficiency fan. For clean room applications where the environment must be virtually free of air particulate, the ULTRA detector (with a dynamic sensitivity range of 0.00015% to 0.03% ft. obscuration) may be used in place of the standard detector. The Self-Contained Power Supply provides 24 VDC power for one detector from 120/240 VAC. The Multi-Zone Power Supply provides 24 VDC power for up to eight detectors from 120/240 VAC. The 48VDC Power Converters convert 48 VDC from an uninterruptible power system to 24VDC for up to eight detectors.

The optional user interface Display Module provides visual indication of the detector's alarm and trouble status on an LCD screen. It can be mounted either within the detector or remotely and communicates via an RS-485 connection.

The Intelligent Interface Module (IIM) provides a communication link to network up to 127 AnaLASER II detectors and report alarms, troubles, etc. Their status changes can be reported to either a local PC monitoring station UL listed for Electronic Data Processing (EDP) equipment via an RS-232 port, a remote PC monitoring station UL listed for Electronic Data Processing (EDP) equipment via a standard voice telephone line utilizing its on-board modem, or to a FENWALNET 2000 or 6000 Control Panel via an RS-232 port. The PC monitoring station shall be running the LaserNET software and a remote station must also be equipped with a modem.

The AnaLASER Interface Module (AIM) provides an addressable interface for an AnaLASER II to connect to the FENWALNET 2000 or 6000 Control Panel, via a two-wire communication loop.

The High Sensitivity Smoke Detection system is UL listed as follows:

Model/Part No.	Description
89-300001-001	**Standard Detector Assembly**
89-300002-001	**ULTRA Detector Assembly**
89-300006-001	**Display Module**
89-300008-001	**Self-Contained Power Supply w/batteries**
89-300010-001	**AnaLASER Interface Module**
89-300012-001	**IIM, Stand-Alone w/modem**
89-300013-001	**IIM, Stand-Alone w/o modem**
89-300014-001	**IIM, FN-2000 w/modem**
89-300015-001	**IIM, FN-2000 w/o modem**
89-300020-001	**Multi-Zone Power Supply w/batteries**
89-300020-002	**Battery Expansion for Multi-Zone Power Supply**
89-300025-001	**Single 48VDC Power Converter**
89-300025-002	**Dual 48VDC Power Converter**
74-600000-512	**AnaLASER II IIM w/modem-Red**
74-600000-513	**AnaLASER II IIM w/o modem-Red**

Pursuant to “Promulgation of the Rules relating to Materials and Equipment Application Procedures” dated November 5, 1992, the Bureau off Fire Prevention has no objection letter dated June 14, 2006, F. P. Index #0605061.

Terms and Conditions: The above units are accepted on the following conditions that:

1. All uses, configurations, arrangements and functions, application and installations shall comply with all applicable provisions of the New York City Building Code, specifically Subchapter 17 and Reference Standard 17-3.

2. Alarm silence, alarm resetting, and/or other control of the detection system shall be in accordance with the requirements of the MEA Report 60-02-E Vol.2, as follows:

    a) This unit shall not be installed as a primary detector unit in areas for which the Building Code specifically calls for the installation of an ionization and photoelectric smoke detector.

    b) Each unit shall be viewed and limited to the operation of a single detector only.

    c) The AnaLASER II shall be installed with its own fuse cut-out.

    d) When installation is in a building with a Fire Command Station, all troubles and fire alarms from the AnaLASER II unit shall be reported to the main fire command station and the signal shall latch on the main fire panel until it is manually reset.

    e) Every plan and permit application for installation shall be accompanied with a piping layout and network calculation, to verify that the design meets the manufacturer’s recommendations with regards to the minimum suction pressure of 0.05 inch and the maximum of 180 seconds transmit time from the furthest sampling port.

    f) In order to prevent buildup of moisture and condensation, the sampling tubes shall be installed with a pitch of 1/16 of an inch per linear foot, away for the AnaLASER II unit. Flexible piping or tubing may not be utilized in the installation.

    g) The system must be configured with an LCD display module.

3. Installation of the above models shall be in compliance with Underwriters Laboratories Inc.'s listing requirements and limitations.

4. Installation of all the above referenced models shall be in accordance with the manufacturer's recommendations, maintenance requirements and limitations.

5. All shipments and deliveries of such equipment shall be provided with a metal tag, suitably placed, certifying that the equipment shipped or delivered is equivalent to that tested and acceptable for use, as provided in Section 27-131 of the Building Code.

Final Acceptance July 25, 2006.

Examined by