



Report of Materials and Equipment Acceptance Division

NYC Department of Buildings
280 Broadway, New York, NY 10007
Patricia Lancaster, FAIA, Commissioner
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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 606-06-E

Manufacturer: Airsense Technologies Limited, 71, Knowl Piece, Wilbury Way, Hitchin, Hertfordshire, SG4 0TY UK

Trade Name(s): Airsense Technologies

Product: High-sensitivity, aspirating smoke detectors

Pertinent Code Section(s): Subchapter 17 and Reference Standard RS 17

Prescribed Test(s): UL 268

Laboratory: Underwriters Laboratories, Inc.

Test Report(s): S8301, Project 03NK05176, issued July 9, 2003 and revised January 3, 2006.

Description: Aspirating smoke detectors, air sampling laser, Models Airsense Stratos Micra 25 and HSSD2. The units must be used with MEA-approved power supplies and control panels.

The Micra 25 is intended to detect an abnormal amount of smoke density in the area from which the detector is sampling and transmit this alarm signal to a fire alarm control panel. Each unit is comprised of resistors, capacitors, diodes, transistors, photodiodes and LEDs, mounted on a printed wiring board inside an enclosure that has opening to the outside via a fan assembly. The fan draws in air from which a small amount of air is passed in to the detector chamber. The number of particles contained within the sampled air is measured using a laser.

The unit is programmed from Airsense Stratos HSSD 2 remote control software via a PC. The PC connects directly to the Micra 25 via a 9 pin D connector.

The Micra 25 is also considered suitable for open area protection. The detector is to be connected directly to control and indicating equipment for fire evaluation purposes.

The Stratos HSSD2 is intended to detect an abnormal amount of smoke density in the area from which the detector is sampling and transmit this alarm signal to a fire alarm control panel. Each unit is comprised of resistors, capacitors, diodes, transistors, photodiodes and LEDs, mounted on a printed wiring board inside an enclosure that has an opening to the outside via a fan assembly. The fan draws in air from which a small amount of air is passed in to the detector chamber. The number of particles contained within the sampled air is measured using a laser.

The Airsense Stratos HSSD2 is designed for applications with a maximum coverage of 200 meters (656 ft.). The detector contains four inlets and a single exhaust port.

The unit may be programmed from Airsense Stratos HSSD2 remote control software via a PC or using interface fitted to each of the detectors. The HSSD2 is also considered suitable for open area protection. The detector is to be connected directly to control and indicating equipment for fire evacuation purposes.

Pursuant to "Promulgation of the Rules relating to Material and Equipment Application Procedures" dated November 5, 1992, the Bureau of Fire Prevention has no objections Letter dated December 14, 2006, F.P. Index #0611064.

Terms and Conditions: The above-described smoke detectors are accepted on condition that:

1. These units shall not be installed as a primary detector unit in areas that the New York City Building Code specifically calls for the installation of ionization and photoelectric smoke detector.
2. All uses, configurations, arrangements and functions, application, installations shall comply with applicable provisions of New York City Building Code, specifically Subchapter 17, and Reference Standard RS 17-3. Further, the installation and spacing of detectors shall be in accordance with the manufacturer's recommendation, NFPA 72 (2002 edition, Section 5.7.3.3) and UL standard 268.
3. Each unit shall be viewed and limited to the operation of a single detector only.
4. When installed in buildings with Fire Alarm System, all troubles and alarms from the units listed above shall be reported to the main fire alarm system and the signal shall latch on at the main fire panel until it is manually reset.
5. Plans for the piping layout and network calculations indicating that the design meets the manufacturer's installation requirements shall be filed with the Fire Department for approval.
6. Flexible piping or tubing shall not be utilized in this installation.
7. Only MEA-approved and/or –accepted fire alarm panels and devices shall be used with the installation.

8. Underwriters Laboratories, Inc.'s listing requirements and limitations shall be complied with.
9. Manufacturer's installation, periodic inspection and maintenance procedures and limitations shall be complied with.
10. 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 New York City Building Code.

Final Acceptance July 10, 2007.

Examined By Donald [Signature]