



NYC Department of Buildings  
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Patricia Lancaster, FAIA, Commissioner  
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## 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 168-93-E Vol. VI

**Manufacturer:** Digital Monitoring Products, Inc., 2500 North Partnership Blvd., Springfield, MO 65803.

**Trade Name(s):** Digital Monitoring Products, Inc.

**Product:** Fire Alarm Equipment.

**Pertinent Code Section(s):** 27-968 through 27-977, RS 17 NFPA No. 72.

**Test(s):** UL 864, UL 1635, UL 294.

**Laboratory:** Underwriters Laboratories, Inc.

**Test Report(s):** File S3598/CBP720, Project 86NK29527, issued June 11, 1987, revised October 26, 2004. File S3598 Project 91NK11453 issued October 14, 1991, revised December 3, 2003. File S3598, Project 00NK26563 issued September 1, 2000, revised December 3, 2003. File S3598 Project 00NK26563 issued September 5, 2000, revised March 26, 2004. File S3598/CBP720 Project 03NK20681 issued January 29, 2004, revised December 23, 2004. File S3598 Project 04NK22334 issued November 18, 2004. File S7400 Project 99NK30329 issued June 15, 2000 revised October 3, 2002. File S7237 Project 03CA32111, issued October 31, 2003, revised January 29, 2004.

**Description** – Central Station Receiver via the built-in two-line dialer communicator or the SCS-101 Network Line Card to provide Central Station or Remote Station signaling service.

The Model XR500, XR500N, and XR500E Signal System Control units are 12VDC microprocessor based control panels that provide power limiting on all circuits and include eight grounded initiating circuits, two Class B (Style A) ungrounded initiating circuits for connection of two-wire smoke detectors, up to two dry contact SPDT (Form C Contact) relay outputs, and eight 50mA open collector outputs. The XR500, XR500N, and XR500E provide a 1.5 amp indicating circuit, a 1.5 amp auxiliary output of which 100mA can be reset for operation for four-wire smoke detectors. The XR500, XR500N, and XR500E communicate with the Model SCS-1R Central Station Receiver via the built-in dialer communicator to provide Central Station and Remote Station Signaling Service and the Model 893A Dual Phone Line Module.

The XR500N and XR500E also communicate with the Model SCS-1R Central Station Receiver via IP network communication to provide Central Station, Remote Station, Remote Station, and Proprietary Signaling Service. Local Signaling Service is provided on the by addition of the Model 865 Class A or B (Style Y or Z) or Model 866 or 867 Class B (Style W) indicating circuit modules.

The Model XR500, XR500N, or XR500E are controlled by and provide annunciation via any of the Model 690, 690F, 693, 790, 790F, 793, 7060, 7063, 7064, 7070, 7073, OR 7074 Alpha-numeric keypads. The Models 790, 793, 7070, 7073, or 7074 provide expansion for up to four Class B (Style A) initiating circuits. The Model 461 Interface Card Adapter and the Model 462N, 462P, and 472, and 481 Expansion Cards may be used with the XR500, XR500N, or XR500E to connect any of the 710, 710F, 711, 711E, 714, 715, 714-8, 714-16, 715, 715-8, 715-16, and 725 zone expanders to provide up to 500 Class B (Style A) initiating circuits. The Model 710 and 710F Bus Splitter/Repeater module provides extension capability for the four-wire loop initiating circuits or act as a junction box for termination of multiple four-wire loop runs. The Model 714-8, 714-16, and 725 zone expanders provide Class B (Style A) initiating circuits. The Model 715-8 and 715-16 provide connection for two-wire smoke detectors. The Model 733 and 734 Wiegand Interface modules provide four power-limited initiating circuits. The Model 733 and 734 initiating circuits 1, 2, and 3 can be used for burglary or access control. The Model 733 and 734 fourth initiating circuit is a Class B, Style A circuit. The 733 and 734 modules supply a Form C single Pole Double Throw (SPDT) Door Strike relay. The Model 869 initiating Module provides 2 Class A (Style D) initiating circuits. The Model 717 Remote Annunciator Module provides 20 open collector outputs for graphic annunciation. The Model 716 Remote Relay Module provides four dry contact SPDT (Form C contact) relay outputs and four open collector outputs. The Model 521LX and 521LXT provide single point addressable two-wire smoke and heat detection. The Model 504-24, and 504-24LX are a 24-volt power supply that provides 4 Amps of continuous power. The Model 505-12 and 505-12LX are 12-volt power supplies that provide 5 Amps of continuous power. The 504-24LX and 505-12LX also provide two independent Class B NAC outputs.

The Model XR2500F Signal System Control Unit is a system made up at the factory and consists of an XR500N panel, 504-24 power supply, (2) 866 notification modules, 481 zone expander, and 893A Dual Phone Line Module. The XR2500F has all of the operating capabilities and module expansion as the XR500 described above.

Model No.	Description
SCS-1R	Central Station Receiver
XR500, XR500N, XR500E	Signal System Control Unit
XR2500F	Fire Alarm Control Panel
461	Interface Adapter
733, 734	Wiegand Interface Module
860	Output Relay Module
893A	Communication Module Keypad
630F, 690F, 790F, 7060, 7063, 7064, 7070, 7073, 7374	Keypads
710, 710F, 714-8, 714-16, 715-8, 715-16, 725	Loop Expanders
504-24, 504-24LX, 505-12, 505-12LX	Power Supplies
521LX, 521LXT, SLRLX	Smoke/Heat Detector
341, 342, 352S, 352P	Enclosures

Pursuant to "Promulgation of the Rules relating to Materials and Equipment Application Procedures" dated November 5, 1992, the Bureau of Fire Prevention has no objections letter dated June 28, 2005, F.P. Index No. 0504034A.

**Terms and Conditions:** That the above units be accepted on condition that:

1. Fire Alarm Control Panels, XR500, XR500N, XR500E, XR2500F must provide for a fail-safe operation. This feature must assure that control of doors, locks, ventilation fans, and elevator recall will not be rendered inoperable in the event of a fire or power failure.
2. These control panels when used as a central office control communicator or a transmitter, the installation and operation of the equipment and devices listed herein shall comply with 3-RCNY §17-01. The installation shall employ the digital dialer as the primary communicator (using telephone line). Network IP communication shall be used only as a backup or secondary means of communication. It shall have the capability of transmitting separate and distinct signals to indicate manual pull station alarm, automatic detection alarm, sprinkler waterflow alarm, supervisory signal indications, and trouble indications.
3. Above referenced control panels shall not be installed as a fire command station.
4. The connection of security/burglar devices and equipment to a fire alarm panel is prohibited. A sign must be provided to indicate same.
5. Installation of pre-recorded evacuation messages in the fire alarm control panel would require a prior approval from the Department.

6. The above referenced products shall be used only with listed and approved accessories with which the compatibility has been determined by the Engineer of Record or a UL test report.
7. Periodic maintenance and sensitivity tests for above referenced smoke detectors shall be conducted in accordance with the regulations of Fire Department.
8. All uses, configurations, arrangements, and functions, application and installations shall comply with the provisions of New York City Building Code, specifically Subchapter 17, and Reference Standard 17-3. Further, the installation shall be in accordance with the applicable provisions of New York City Electrical Code, manufacturer's recommendation, NFPA 72, and UL Standards.

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 accepted for use, as provided for in Section 27-131 of the Building Code.

Final Acceptance August 16, 2005  
Examined by Donald [Signature]