



Report of Materials and Equipment Acceptance Division

NYC Department of Buildings
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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 43-05-E Vol. 2

Manufacturer: Harrington Signal Inc., 2519 4th Avenue,
Moline, Illinois 61265

Trade Name(s): Harrington Signal Inc.

Product: Fire alarm control panel and accessories

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

Prescribed Test(s): UL 864

Laboratory: Underwriters Laboratories, Inc.

Test Report(s): UL File S1411, Project 04NK27393, issued
November 15, 2004, revised September 7, 2007.

Description: Fire alarm control panel, **T2000**, is a variation of the T8000 that is currently approved under **MEA #43-05-E**.

The T2000 fire alarm control unit is designed for non-coded and voice evacuation systems in commercial, industrial and institutional applications, with the capability of system networking. Up to (15) annunciator control units and (5) relay modules may be networked with the master control unit. The control unit provides two(2) initiating circuits. The system is field programmable at the master control unit, which contains the system processor, programming port, printer port and non-volatile memory for system firmware. Custom software is installed to provide special relay function, zone LED annunciation, custom zone and device read-out messages, etc.

The T2000 units provide (4) supervised output notification circuits for Class B (Style Y) or Class A (Style Z) horns, horn/strobes, bells or chimes, and each is rated 3.0 amps @ 24VDC, with the internal power supply limited to a total of 7.0 amps. The internal unit power supply also provides a built-in battery charger with battery supervision circuitry. Total notification circuit loading must be calculated to assure adequate power supply and battery capacity based on standby requirement (hrs.) and alarm (mins.). When required, additional approved notification power expander units must be used.

The T2000 control unit has a 160 (8x20) character LCD alphanumeric display that provides access to functions, zone indication, history display, device alarm, custom messages, etc. Two form C relays provide programmable functions and (1) form C relay provides system trouble-indication. The form C relays are each rated 10A @ 30VDC/240VAC resistive or 3A@240VAC (0.4 power factor). The notification circuits may be configured as auxiliary output circuits, either resettable or non-resettable, rated 3.0 amps @ 24VDC each.

The T2000 control unit is compatible with the Model 5104B digital communicator manufactured by Silent Knight to provide capability of DACT signaling to Central and Remote Station services.

The following is the minimum configuration to meet the NFPA requirements.

Module	Description	Local	Central or Remote Station	MEA No.
T8000-MBC	System Common Device, Chassis with MCC, PDC-UL, FPC, RL980	Y	Y	43-05-E
T2000-MBC	System Common Device, Chassis with MCC-LC, PDC-UL, FPC, RL980	Y	Y	43-05-E
T8000-CM	Conventional Zone Module	O	O	43-05-E
T8000-LC	Addressable Loop Module	O	Y	43-05-E
T8000-RC	Relay Card	O	Y	43-05-E
T8000-ANN	Remote LCD Annunciator (Board & Enclosure)	O	O	43-05-E
T8000-CAB	Main Cabinet Enclosure	Y	Y	43-05-E
T8000-EXP	Remote Card Enclosure, Small	O	O	43-05-E
T8000-EXP5	Remote Card Enclosure, Large	O	O	43-05-E
HS-SBC	Small Battery Box	O	O	43-05-E
HS-LBC	Large Battery Box	O	O	43-05-E
T8000-DACT-R	DACT Relay Connector	N	Y	43-05-E
Mini-Module	Apollo Mini-Module	N	Y	43-05-E
EOL	End-of-Line Resistors	O	O	43-05-E
5104B	Silent Knight Digital Alarm Communicator	N	Y	43-05-E

Note:

Y = Yes

N = No

O = Optional

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 January 14, 2008, F.P. Index #0801010).

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

1. Fire alarm control unit, Model T2000, 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.

When used with central office communicator or transmitter (Silent Knight Model 5104B), the installation and operation of the equipment and devices shall comply with 3RCNY §17-01. 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.
2. The connection of security/burglar devices and equipment to this fire alarm panel is prohibited. A sign must be provided to indicate same.
3. Installation of pre-recorded evacuation messages in the fire alarm control panel would require a prior approval from the Department.
4. The above-referenced fire alarm equipments shall be used only with listed and MEA approved equipments and accessories with which the compatibility has been determined by the Engineer of Record or a UL test report.
5. All enclosures for fire alarm equipment shall be painted red in color.
6. 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 Standards RS 17-3, 17-3A, 17-3B, 17-3C and 17-5. Further, the installation shall be in accordance with the manufacturer's recommendation, NFPA 72 and UL standard.
7. 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 in Section 27-131 of the New York City Building Code.

Final Acceptance February 14, 2008
Examined By Donald J. [Signature]