CITY OF NEW YORK
DEPARTMENT OF BUILDINGS

Pursuant to Administrative Code Section 27-131, the following equipment or material has been found acceptable for use in accordance with the Report of the Material and Equipment Acceptance (MEA) Division.

Patricia J. Lancaster, F.A.I.A., Commissioner
MEA 490-04-E

Report of Material and Equipment Acceptance Division
Manufacturer: Fike Corporation, 704 South 10th Street, Blue Springs MO 64015.
Trade Name(s): CyberCat Control Unit.
Product: Fire Alarm Equipment.
Pertinent Code Section(s): ANSI/NFPA, No. 72.
Test(s): UL 864, ANSI/NFPA No. 72.
Laboratory: Underwriters Laboratories, Inc., Factory Mutual.

Description: Fike's new CyberCat fire alarm system is a digital, peer-to-peer, bi-directional communication system, revolutionary in its speed, intelligence and flexibility. The CyberCat cuts alarm response time to as little as one-quarter second. Has 2, 24 VDC, 2 A bell circuits with System sensor or Gentex Synch protocol. Has 254 user defined zones. Has one person Walktest capability. Cybercat has 80 Character (4x20) Backlit LCD display and 10 Status LEDs to easily identify system status. Optional point ID DACT module available. 6 amps usable alarm power with expandable to 12 amps (2A standby/ Expandable to 4). Operation from 120vac/60 Hz or 240vac/50 Hz. 3, 24 VDC, 2A Aux power outputs 2 continuous 1 resettable. 2 S/LC loops, expandable to 4, NFPA style 4 or 6. 254 devices per loop, system maximum 1016 devices with SLM/Supplemental loop module. Drill function at panel or remote. Supports up to 31 peripheral devices such as Remote Display, LED Graphic and Zone Annunciators.

PRODUCT COVERED:
Model CyberCat control unit; Model SPS Supplemental Power Supply and Model SLM Supplemental Loop Module.

ENGINEERING CONSIDERATIONS:

General - The unit is intended for the applications described in Table I.

The unit is modular in construction. The minimum configurations needed to meet the intended applications are described in Table II.

The CyberCat control unit, part no. 10-084-c-p-d, c: (R=Red, B=Black), p: (1=120V, 2=120V), d: (3=Blank. L=Ledar), is a fully addressable control panel. The basic configuration includes the main board, enclosure and a transformer. The control unit is suitable for critical process management and voice evacuation via Fike Guard model FGT-MP/DP. Additional modules can be added as described in Table II of this report.

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The Supplemental Power Supply (SPS, part no. 10-2474) can be used to increase the overall capacity of the control unit from 2.0 A NS, 6.0 A alarm to 4.0 A NS, 12.0 A alarm. The SPS also provides an additional three 2.0 A auxiliary power output. The SPS plugs directly to terminal position P16 on the main board (part no. 10-2472).

SLM

The Supplemental Loop Module (SLM, part no. 10-2473) adds to additional SLC’s to the panel, increasing the overall capacity of the panel from 504 devices to 1016 devices. The SLM plugs directly to terminal position P13 on the main board.

The Cybernet RAY employs the following features:
- Alarm verification (maximum verification period field programmable between 30 and 60 s).
- Walk test.
- Supports addressable devices.
- Critical Process monitoring.
- Alarm verification.
- Walk Test
- Autolearn
- Positive Alarm Sequence
- Drift Compensation (via smoke detectors)
- Synchronization of Notification appliances
- Remote Annunciator outputs

TABLE 1

<table>
<thead>
<tr>
<th>Type</th>
<th>Initiating Device</th>
<th>Initiating Type</th>
<th>Signaling Type</th>
<th>Signal Line</th>
<th>Communication Circuits</th>
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<tbody>
<tr>
<td>Local</td>
<td>A, B, W, F, S</td>
<td>Y, Z</td>
<td>RC</td>
<td>Styles</td>
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<td>Auxiliary</td>
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<td>Y, Z</td>
<td>RC</td>
<td>Styles</td>
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<td>Y, Z</td>
<td>RC</td>
<td>Styles</td>
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(*) Requires separately Listed equipment.
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<tr>
<th>Module</th>
<th>Part No</th>
<th>Description</th>
<th>Ctrl Stn</th>
<th>Loc</th>
<th>Aux</th>
<th>X2</th>
<th>Relaimng</th>
<th>Voice</th>
<th>Extingu.</th>
<th>Critical Process Management</th>
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</table>

Y = Yes
N = No
O = Optional
a = Either the 10-2493-C or 10-2493-C-L is required.
b = Either 120 V or 240 V transformer required.
c = Separately listed equipment located in file 33217, Vol. 5, Sec. 1
##d = Separately listed equipment located in file 33217, Vol. 4, Sec. 1
##e = Separately listed DACT, manufactured by Bosch, model no. 09568
##f = Separately listed control module.
g = Separately listed equipment located in file 33203, Vol. 1, Sec. 1

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Installation - These products are intended to be installed in accordance with the following:

A. NFPA 70 - National Electrical Code.
B. In accordance with the local authority having jurisdiction.

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 February 16, 2005, F.P. Index No. 0412026A.

Recommendation - That the above units be accepted on condition that:

1. Fire Alarm Control Unit Cybercat 10-064 must provide for a fail-safe operation. This feature must assure that control of doors, ventilation fans, and elevator recall will not be rendered inoperable in the event of a fire or power failure.

The design for the installation of Cybercat 10-064, where installed as a Fire Command Station, in occupancies such as high rise office buildings, hotels and department stores must employ class “A” wiring method (styles 7), with at least one isolator provided for each floor. No more than 25 initiating devices shall be acceptable for each isolator.

Notification appliances must be wired Class A, (Style 2) with at least one isolator provided for each floor. No more than 25 notification appliance units shall be acceptable for each isolator. Tee taps are unacceptable on Style 7 wiring. Running return wires in the same feeding conduit is unacceptable. The return conduit must be least 7 feet apart from the supply conduit.
For other occupancies where installed as an IFA control panel, Style 4 wiring method would be accepted with a condition that the design shall provide for the installation of one isolator for each floor and at each Tee Tap. No more than 25 initiating devices or notification appliance units shall be acceptable for each isolator.

When used with a central office communicator or a transmitter, 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 Remote annunciator 10-2321 is acceptable under the condition that all controls of fire alarm shall be removed from this unit except the "ACKNOWLEDGE" function key.

5. Only metallic enclosures (10-2463) painted red shall be permitted.

6. The above referenced fire alarm equipment 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. 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, 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.

Final Acceptance __________________________
Examine by __________________________

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