

**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.

Test Report(s): UL 864 File S2203, Project 04NK09238 issued 10-27-04.

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 useable 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 resetable. 2 SLC 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. 10-064-c-p-d, c: (R=Red, B=Black), p: (1=120V, 2=240V), d: (B=Blank, L=Lexan), is a fully addressable control panel. The base 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 FGX-MP/DP. Additional modules can be added as described in Table II of this report.

SPS

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 508 devices to 1016 devices. The SLM plugs directly to terminal position P15 on the main board.

The CyberCat may employ 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 I

Type <u>Service</u>	<u>Model</u>	Initiating Device <u>Types</u>	<u>NAC</u>	Type <u>Signaling</u>	Signal Line <u>Circuit</u>	<u>Communication Circuit</u>
Local	10-064	A,M,WF,SS,	Y,Z	NC	Styles 4,6	N/A
Auxiliary	10-064	A,M,WF	N/A	N/A	Styles 4,6	N/A
Remote Station (PPU)	10-064	A,M,WF,SS,	N/A	Rev. Pol. (+).	Styles 4,6	Style 4
Central Station (PPU)	10-064	A,M,WF,SS,	N/A	DAC(+),	Styles 4,6	Styles 4, 6
Type SM		A, M	N/A	DAC(+),	Styles 4, 6	Styles 4, 6

(+) Requires separately Listed equipment.

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

TABLE II

Module	Part No	Description	Central Station	Local	Aux	RS	Releasing	Voice Evacuation	Critical Process Management
CyberCat System Controller	10-2472	Main Board	Y	Y	Y	Y	Y	Y	Y
Enclosure α	10-2483-C 10-2483-C-L	Enclosure	Y	Y	Y	Y	Y	Y	Y
SPS	10-2474-p	Supplemental power supply	O	O	O	O	O	O	O
SLM	10-2473	Supplemental loop module	O	O	O	O	O	O	O
Transformer 120 V *	02-10881	Transformer	Y	Y	Y	Y	Y	Y	Y
Transformer 240 V *	02-10882	Transformer	Y	Y	Y	Y	Y	Y	Y
CRM4 @	10-2204	Relay module	O	O	O	O	O	O	O
CRPM @	10-2254	Reverse Polarity module	N	N	N	Y	N	N	O
DACT &	10-2476	Bosch DACT	Y	N	N	N	N	N	N
Remote Display #	10-2321	Remote annunciator	O	O	O	O	O	O	O
LED Display ##	10-11x	Graphic annunciator	O	O	O	O	O	O	O
Zone Annunciator #	10-2373	Zone Annunciator	O	O	O	O	O	O	O
Fike Guard	FGX-MP/DP	Voice Evacuation System	N	N	N	N	N	Y	N
Control Module Δ	55-042	Control Module	O	O	Y	O	Y	O	O
Supervision Module #	10-2413	Masterbox Supervision Module	N	N	Y	N	N	N	N
Series Impedance #	10-2361	Series Impedance	N	N	N	N	Y	N	N

Y - Yes

N - No

O - Optional

α - Either the 10-2483-C or 10-2483-C-L is required.

* - Either 120 V or 240 V transformer required.

- Separately listed equipment located in file S3217, Vol. 5, Sec. 1

- Separately listed equipment located in file S3217, Vol. 4, Sec. 1

& - Separately listed DACT, manufactured by Bosch, model no. D9068

Δ - Separately listed control module.

@ - Separately listed equipment located in file S2203, Vol. 1, Sec. 1

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.
- C. NFPA 72 - National Fire Alarm Code.
- D. NFPA 13 - Standard for Installation of Sprinkler Systems.
- E. NFPA 15 - Standard for Water Spray Fixed Systems.
- F. NFPA 16 - Standard for Deluge-Foam Water Systems.

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 18, 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 Z) 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 (10-2483) 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 Engineered 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 _____

Examined by _____