

## Electrical Signaling

*Electrical protective signaling systems are configurations of components used to produce alarm signals indicative of fire, smoke, sprinkler waterflow or other emergency and to produce supervisory signals indicative of conditions needing attention with respect to protection equipment or watch service. System configurations are classified according to where and how the signals are received. The categories are commonly designated as local, municipal, remote station, proprietary and central station. Auxiliary systems are either local or proprietary systems interconnected with a municipal system.*

*This category presents the major system component categories and the integrated system configurations. The selection of components to form a hybrid system should be made only by those skilled in system design. Also, the suitability of any system application should be judged on the basis of the hazard(s) being protected.*

### Fire Alarm Equipment – Controls & Systems Tested to ANSI Standards

This category covers electrical control units and systems for fire protective signaling systems to be employed in ordinary indoor locations in accordance with the Standards of the National Fire Protection Association for Central Station, Local, Auxiliary, Remote Station and Proprietary Protective Signaling Systems for Watchman, Fire Alarm and Supervisory Service. The basic standard used to investigate products in this category is ANSI/UL 864, "Control Units for Fire-protective Signaling Systems."

Fire control and systems listed in this category are further described using the following descriptors or legend for the particular APPLICATIONS they might be suited for:

- Local System Type (L)
- Local System Type with Shunt Type Connection to Master Box (LS)
- Auxiliary System Type (A)
- Remote Station System Type (RS)
- Proprietary System Type (P)
- Central Station System Type (CS)
- Automatic Release Extinguishing System (ARES)
- Automatic Release for Preaction & Deluge Sprinkler System (ARP&DS)
- Emergency Voice Communication (EVAC)
- Emergency Telephone Communication (FFP)
- Fire Fighter Smoke Control Station (FSCS)

In addition, the types of DEVICES that can be connected for the service indicated in the listings for each type control or system are as follows:

- A - Automatic fire alarm: Thermostats, smoke detectors, etc.
- M - Manual fire alarm: Manually operated boxes
- WF - Waterflow alarm: Waterflow switches
- SS - Sprinkler supervisory: Gate valves, water level switches, temperature switches, etc.
- WSS - Watchman's supervisory service
- Mass Notification System [MNS]

Lastly, the type of SIGNALING service applicable to each type control unit is as follows:

- C – Coded
- NC - Non-Coded
- M - March Time
- MX – Multiplex
- RF - Radio Frequency
- DAC - Digital Alarm Communicator
- OT – Other Technologies

Where more than one type control unit is indicated for a model number, such as Type (L, LS, A, RS), that particular model is suitable for all the indicated applications. The change from one type to another may be made by deletion or addition of a panel or module inside the control unit cabinet or revisions to operating software to provide the additional function. In other cases a control unit may be suitable for a dual function without any panel changes, such as a Type (P, RS).

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under the FM Approval's Facility & Procedure Audit Program. Only those products bearing the FM Approved listing mark should be considered as listed and covered under the FM Approval's follow-up program. Always look for the FM Approved listing mark followed by the wording "to ANSI/UL 864" on the control or system.

Refer to the example table below defining the control or system, it's intended application and types service that it is FM Approved for use. Additional equipment and description related to control or system can be found by selecting (clicking) on the Model designation.

| Model Designation | Devices      | Signaling      | Applications  |
|-------------------|--------------|----------------|---------------|
| MS-9050UD         | A, M, WF, SS | C, NC, DAC     | L, RS, CS     |
| FPA-1000-UL       | A, M, WF, SS | M, NC, DAC, OT | L, P, R, C, A |

## Cyber Cat Addressable Voice Alarm Evacuation System

Cyber Cat Addressable Voice Alarm Evacuation System with firmware Rev. 5.XX or higher consists of either an FM Approved CyberCat 1016 or Cybercat 254 fire alarm control panel, 10-2661 audio control card with firmware rev. V2.XX, 10-2754-C amp [3 amp remote] enclosure, 10-2755-C amp [5 amp remote] enclosure, 10-2753-C-O retrofit enclosure, 10-2659 input/output control card with firmware rev. V2.XX, 10-2527-C-L-X-X/10-2483-C-L-X-X/10-2771-C/ 10-2772-C fire command center [FCC] enclosure, 10-2726 Amplifier Card with firmware rev. V1.XX, 10-2746 Class A Speaker Card, 10-2741 Paging Control Card, 10-2727 Digital Paging Module with firmware rev. V1.00, 10-2757 Microphone Housing, 10-2756 Firephone Housing, 10-2751 Digital Paging Assembly, 10-2730 Supplemental Fire Phone Card, 10-2728 Fire Phone Card with firmware rev. V1.XX. 10-2814 LOC Digital Paging Assembly with firmware rev. 2.XX and LOC Digital Paging Card (P/N 10-2798), LOC Paging Control Card (P/N 10-2816), 20-pin ribbon cable (P/N 10-2815), and LOC Microphone Housing (P/N 10-2813). The LOC digital paging assembly is compatible with Fike's CyberCat 254, CyberCat 1016 and CyberCat 50 intelligent control panels that are equipped with firmware version 5.XX and higher. 10-2751 FCC Digital Paging Assembly with firmware 2.XX and the FCC digital paging card (P/N 10-2727), FCC paging control card (P/N 10-2741), 20-pin ribbon cable (P/N 10-2764), and FCC microphone housing (P/N 10-2757). The assembly must be installed on all emergency communication systems that incorporate multiple amplifiers serving separate zones or systems that require firefighter's telephone capabilities. FCC digital paging assembly is compatible with Fike's CyberCat 254, CyberCat 1016 and intelligent control panels that are equipped with firmware version 5.XX and higher. The digital page card is the same as the FM Approved card except the addition of: MNS contact and MNS line level inputs which were moved from audio amplifier card [not FM Approved]. The LOC Digital Paging Card is a depopulated version of the FCC Digital Paging Card. The 10-2792 Class A Peripheral Bus Card provides a means of wiring RS485 peripheral bus and 24 VDC power output to the peripheral devices in a Class A format. The 10-2818 Class A Peripheral Bus Card includes the 10-2792, Class A peripheral bus card and enclosure with mounting plate. The Class A Peripheral Bus Card is compatible with Fike's CyberCat Fire Alarm and the Cheetah Xi Fire Suppression control panels, firmware version 6.XX and higher. 10-2794-X Remote Display Enclosure Assembly, 10-2793-X LOC Enclosure, 10-2796-X LOC with RDU Enclosure, 10-2797-X Remote Audio Enclosure (1 amp), 10-2831 Audio Adjunct Panel (1 Amp), 10-2832 Audio Adjunct Panel (3 AMP), The 10-2773-X amp card [with 2 audio and power transformers is the same as the FM Approved card, except the trouble relay and the audio in circuits have been removed [the audio in circuit is on digital paging card. The trouble relay circuit is deleted]. The existing inventory of rev. B 10-2726 cards was reworked as per assembly drawing 10-2726 rev. B page 3 of 3. The FM Approved 10-2658, 102659 and 10-2661 have been modified as per assembly drawing number 10-2661-sch rev. A [for 10-2658 and 10-2661] and 10-2659-sch rev. A for 10-2659. 02-12825 audio transformer [MCI part number 2-51-0919] Class 105 insulation system, primary 12.0Vac, secondary 26.78Vac or 72.92Vac (C = enclosure color R=Red, B=Black, O = overlay color R=Red, B=Black, L = Lexan viewing window, 1st X = number of Dead-Front slots 19 or 23, 2nd X = overlay color R=Red B=Black).

| <b>Model Designation</b>  | <b>Devices</b> | <b>Signaling</b> | <b>Applications</b> |
|---|----------------|------------------|---------------------|
| Cyber Cat Addressable Voice Alarm Evacuation System CyberCat 1016 or Cybercat 254 | A,             | NC,              | EVAC, MNS           |

|                                     |   |
|-------------------------------------|---|
| <b>Company Name:</b>                | Fike Protection Systems Ltd                           |
| <b>Company Address:</b>             | 704 SW 10th St, Blue Springs, Missouri 64015, USA     |
| <b>Company Website:</b>             | <a href="http://www.fike.com">http://www.fike.com</a> |
| <b>New/Updated Product Listing:</b> | No  |
| <b>Listing Country:</b>             | United States of America                              |
| <b>Certification Type:</b>          | FM Approved   |