

# MS-25(E)

## Addressable FACP With Built-in Communicator



### Addressable Fire Alarm Control Panels

#### General

The Fire•Lite MS-25(E) is a Fire Alarm Control Panel (FACP) and Digital Alarm Communicator/Transmitter (DACT) combined into one circuit board.

With an extensive list of powerful features, the MS-25 fits into applications previously served only by conventional panels.

This compact, intelligent addressable control panel supports up to 25 Honeywell Fire Systems addressable devices of any type of detectors and modules. With code wheel addressable detectors/modules and JumpStart® feature the MS-25 can be Life Safety operational without a single programming tool. Powerful features such as drift compensation and maintenance alert are delivered in this powerful FACP from Fire-Lite.

The MS-25's integral DACT transmits system status (alarms, troubles, AC loss, etc.) to a Central Station via the public switched telephone network. The power supply and all electronics are contained on a single circuit board and housed in a metal cabinet.

Custom programming can be performed through FACP built-in browser (no programming software required) with a PC.

NOTE: Unless otherwise specified, the term MS-25 is used in this data sheet to refer to the MS-25 and the MS-25E. For details on the Canadian version, see DN-60641.



#### Features

- ETL listed to ANSI/UL 864 9th Edition Standard
- Listed to UL Standard 864, Ninth edition.
- JumpStart® auto-learn feature reduces installation time and makes programming easy.
- Built-in digital communicator.
- Two programmable Style Y (Class B) notification appliance circuits (NACs).
- Selectable strobe synchronization for System Sensor®, Gentex®, Wheelock® or AMSECO devices.
- Two programmable Form-C relays and one Form-C trouble relay.
- Automatic detector sensitivity testing (NFPA 72 compliant).
- Point status eliminates calibrated smoke test requirements for NFPA 72.
- Drift compensation.
- Alarm verification per zone of detectors.
- Walk-test.
- Honeywell Fire Systems detectors and modules are code-wheel addressed for faster installation time.
- Maintenance alert region.
- Uses standard wire (unshielded or twisted pair).
- Central Station reporting up to five zones.
- On Board Annunciator.

- Custom programming performed through the control panel's built-in browser; no programming software is required.

#### SLC Communication

- Single addressable SLC loop which meets NFPA Style 4 (Class B) requirements.
- 25 addressable device capacity (any combination of addressable detectors and modules).
- Compatible with Honeywell Fire Systems detectors and modules.

#### Notification Appliance Circuits (NACS)

- Two independently programmable output circuits. Circuits can be configured for the following outputs:
  - Style Y (Class B).
  - Door Holder Service (cannot be used for notification appliances).
  - Aux Power Source (cannot be used for notification appliances).
- Silence Inhibit and Auto-silence timer options.
- Continuous or Temporal code.
- Selectable strobe synchronization per NAC.
- Up to 2.0 A total output power, 1.0 A for auxiliary power and door holder. Each circuit can source up to the total system current 2.0 A.

## Programming and Software

- Auto-learn “JumpStart®” feature for easy programming reduces installation time.
- Two programmable Form-C relay outputs.
- 5 programming zones.
- Custom programming can be performed through control panel’s built-in browser.

## User Interface

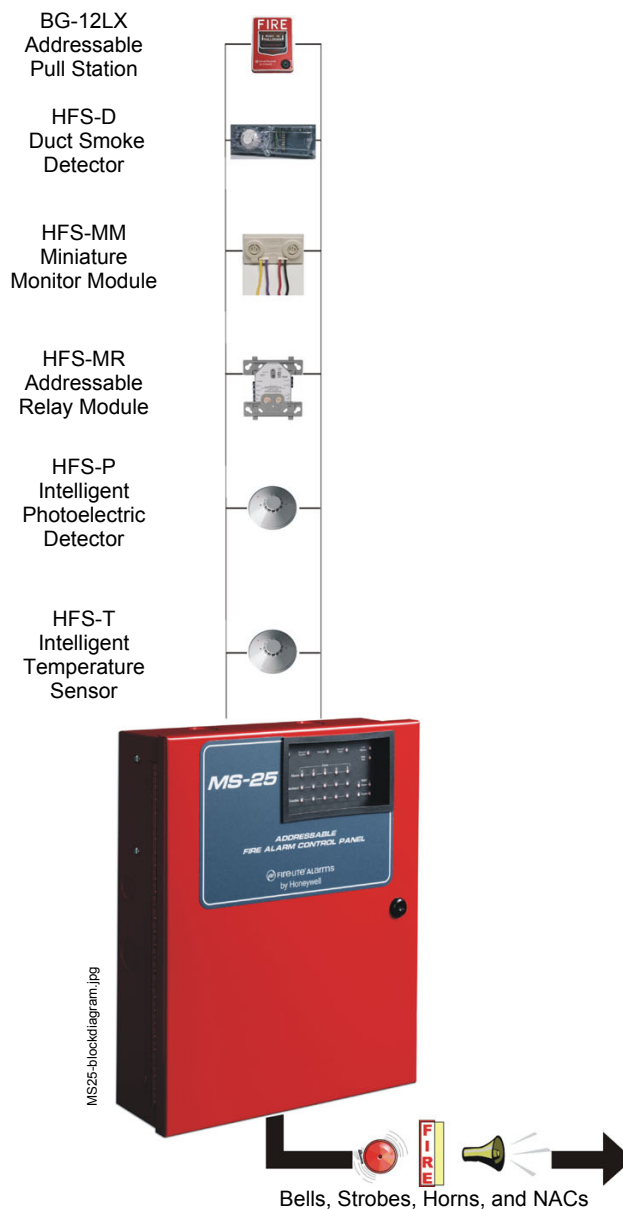
### LED INDICATORS

- AC Power (green)
- Fire Alarm (red)
- Supervisory (yellow)
- Alarm Silenced (yellow)
- System Trouble (yellow)
- Disabled (yellow)

- Low Battery Fault (yellow)
- Ground Fault (yellow)
- Walk Test (yellow)

### KEYPAD CONTROLS

- Acknowledge
- Silence
- Drill
- System Reset (lamp test)
- 10-key numeric keypad
- 5 Zones Disable keypad
- 2 NACs Disable keypad



## Product Line Information

**MS-25:** Combination DACT/Fire Alarm Control Panel with one SLC loop. Includes main circuit board with display, transformer, backbox with door, manual, and required screws, cables, key, etc. Red, 120 VAC.

**MS-25E:** Same as **MS-25**, but operates from 220/240 VAC.

**MS-25C:** Same as **MS-25**, but listed for Canadian applications. For details on the Canadian version, see DN-60641.

### **HONEYWELL FIRE SYSTEMS DEVICES**

**HFS-P:** Honeywell Fire Systems addressable photoelectric smoke detector. Includes base.

**HFS-PT:** Honeywell Fire Systems addressable photoelectric smoke detector with thermal sensor. Includes base.

**HFS-T:** Honeywell Fire Systems addressable fixed temperature heat detector. Includes base.

**HFS-MM:** Honeywell Fire Systems addressable Mini-Monitor module for normally-open contact devices.

**HFS-MR:** Honeywell Fire Systems addressable relay module.

**HFS-D:** Honeywell Fire Systems addressable photoelectric duct smoke detector. Includes detector.

**BG-12LX:** Addressable dual-action manual pull station.

**SB-I/O:** Surface-mount backbox, plastic.

**BG12TR:** Optional trim ring for semi-flush mounting the pull-station.

**BB-26:** Battery backbox, holds up to two 25 AH batteries and CHG-75.

**BB-55F:** Battery box, houses two 55 AH batteries.

**CHG-75:** Battery charger for lead-acid batteries with a rating of 25 to 75 AH.

**CHG-120F:** Remote battery charging system for lead-acid batteries with a rating of 55 to 120 AH. Requires additional BB-55F for mounting.

**BAT Series:** Batteries. See data sheet DF-52397.

**005220:** City Box Transmitter Module.

**007860:** DACT Phone Cord (2 required)

## Wiring Requirements

While shielded wire is not required, it is recommended that all SLC wiring be twisted-pair to minimize the effects of electrical interference. Refer to the panel manual for wiring details.

# SYSTEM SPECIFICATIONS

## System Capacity

- Intelligent Signalling Line Circuits..... 1
- Addressable device capacity ..... 25
- Programmable software zones ..... 5

## Electrical Specifications

- **AC Power:** MS-25: 120 VAC, 60 Hz, 1.5 A. MS-25E: 230 VAC, 50/60 Hz, 0.75 A. AC wire size is minimum 14 AWG (2.00 mm<sup>2</sup>) with 600 V insulation. Nonpower-limited, supervised.
- **Battery:** Charging capacity 7-33 AH (18 AH for ULC applications). MS-25 cabinet holds maximum of two 7 AH batteries. Larger batteries require a separate battery cabinet, such as the **BB-26** or **BB-55F**.
- **Communication Loop:** Supervised and power-limited.
- **Notification Appliance Circuits:**
  - Terminal Strip provides connections for two NACs, Style Y (Class B).
  - Maximum signaling current: 2.0 A.
  - End-of-Line Resistor: 4.7 kOhm, ½ watt (P/N 71252 UL listed) for Style Y (Class B) NAC. Refer to the MS-25 manual for listed compatible devices.
- **Standby Current:** 135 mA
- **Alarm Current:** 220 mA
- **Aux Power Circuits:** 1.0A @ 24 VDC per circuit, power-limited
- **Two Programmable Relays and One Fixed Trouble Relay:**
  - Contact rating: 2.5 A @ 24 VDC (resistive).
  - Form-C relays, nonpower-limited, nonsupervised.

## Physical Specifications

- **Dimensions:** 15.2" H (38.42 cm) x 12.75" W (32.39 cm) x 3.4" D (8.57 cm)
- **Weight:** 11.5 lbs. (5.2 kg)
- **Color:** Red

## Temperature and Humidity Ranges

This system meets NFPA requirements for operation at 0 – 49°C/32 – 120°F and at a relative humidity 93% ± 2% RH (noncondensing) at 32°C ± 2°C (90°F ± 3°F). However, the useful life of the system's standby batteries and the electronic components may be adversely affected by extreme temperature ranges and humidity. Therefore, it is recommended that this system and its peripherals be installed in an environment with a normal room temperature of 15 – 27°C/60 – 80°F.

## Agency Listings and Approvals

The listings and approvals below apply to the basic MS-25(E) control panel. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL Listed:** S624
- **ETL listed:** Report # 3189837NYM-001a

For the ULC-listed version, see DN-60641.

## NFPA Standards

The MS-25(E) complies with the following NFPA 72 Fire Alarm Systems requirements:

- **LOCAL** (Automatic, Manual, Waterflow and Sprinkler Supervisory).
- **AUXILIARY** (Automatic, Manual and Waterflow) (requires 5220 module).
- **REMOTE STATION** (Automatic, Manual, Waterflow and Sprinkler Supervisory) (Where a DACT is not accepted, the alarm, trouble and supervisory relays may be connected to UL 864 listed transmitters.
- **PROPRIETARY** (Automatic, Manual and Waterflow).
- **CENTRAL STATION** (Automatic, Manual and Waterflow, and Sprinkler Supervised).

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