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N.S PMI-3

N.S. PMI-3 Person Machine Interface - User Manual

Model: PMI-3

1. Introduction

The N.S. PMI-3 Person Machine Interface serves as the primary user interface and central microprocessor for compatible Fire Alarm Control Panels (FACPs), such as the FireFinder XLS system. This module is designed to provide comprehensive system status display and control capabilities, ensuring efficient monitoring and management of fire safety systems. It is UL864 10th Edition Listed, CSFM, and NYCFD Approved, indicating compliance with rigorous safety standards.

2. Product Overview

The PMI-3 features a large, high-resolution color liquid-crystal display (LCD) with touch screen functionality, complemented by light-emitting diodes (LEDs) for quick visual status checks. The interface is designed for clear and intuitive interaction with the fire alarm system.

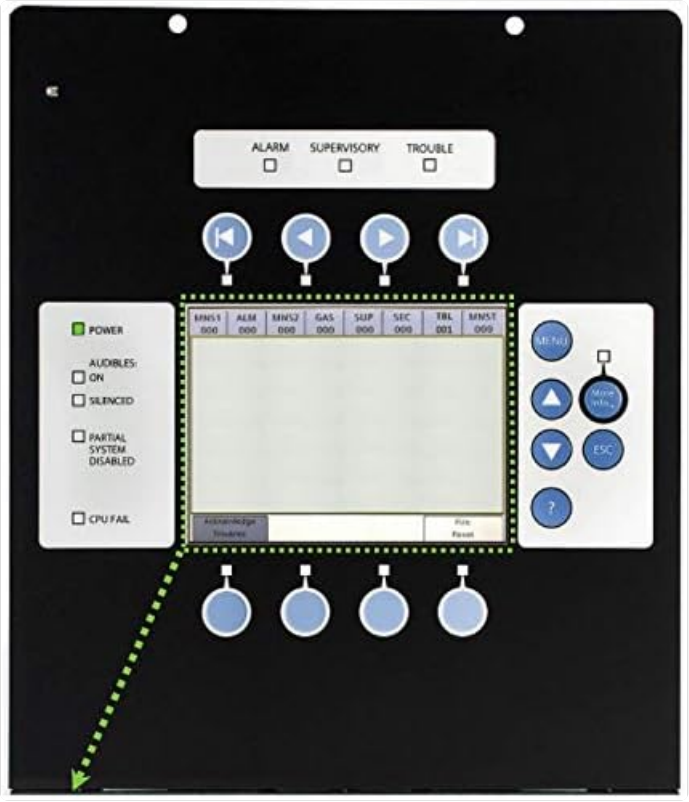


Figure 2.1: Front view of the N.S. PMI-3 Person Machine Interface, showing the central LCD touchscreen, navigation buttons, and status indicator LEDs for Alarm, Supervisory, and Trouble conditions. Additional indicators for Power, Audibles, Partial System Disabled, and CPU Fail are also visible on the left side.

2.1 Key Components

- **6" (15.2 cm) Color LCD Touch Screen:** Provides a 1200 x 800 pixel display for detailed system information, event logs, and menu options.
- **Status LEDs:**
  - **Alarm:** Indicates active alarm events (displayed in red on LCD).
  - **Supervisory:** Indicates supervisory events (displayed in blue on LCD).
  - **Trouble:** Indicates system trouble events (displayed in yellow on LCD).
- **Navigation Buttons:** Used for navigating through menus and acknowledging events.
- **System Status Indicators:** LEDs for Power, Audibles (On/Silenced), Partial System Disabled, and CPU Fail.

3. Setup

Installation of the N.S. PMI-3 module should only be performed by qualified and authorized personnel in accordance with all local and national electrical codes, as well as the specific instructions provided in the FireFinder XLS system manual. Proper wiring and configuration are critical for the safe and effective operation of the fire alarm system.

3.1 Pre-Installation Checks

- Verify that the power to the Fire Alarm Control Panel (FACP) is disconnected before beginning installation.
- Ensure all necessary mounting hardware and cables are available.
- Confirm compatibility with the existing FACP system.

3.2 Installation Steps (General)

1. Mount the PMI-3 module securely into the designated slot or enclosure of the FACP.
2. Connect all required data and power cables as specified in the FACP installation manual.
3. Verify all connections are secure and correctly terminated.
4. Once physical installation is complete, restore power to the FACP and proceed with system configuration.

Refer to the comprehensive FireFinder XLS system installation manual for detailed wiring diagrams and specific mounting instructions.

4. Operating Instructions

The PMI-3 provides real-time status updates and allows for interaction with the fire alarm system through its intuitive touch screen and physical buttons.

4.1 System Status Display

- The LCD displays system status, event logs, and menu options.
- **Event Categorization:** Events are categorized by type (Alarm, Trouble, Supervisory) with the quantity of active events listed in corresponding tabs.
- **Color Coding:**
  - Alarm events: Red
  - Trouble events: Yellow

    - Supervisory events: Blue
- Each event provides two full lines of text message and can include a 32-character custom message for location description.

4.2 Navigating the Interface

- **Touch Screen:** Tap on menu items, event tabs, and buttons displayed on the LCD to interact with the system.
- **Navigation Buttons:** Use the physical buttons (e.g., Menu, Up, Down, ESC) to navigate through menus, scroll through lists, and exit screens.
- **Acknowledgement:** Follow on-screen prompts or use designated buttons to acknowledge alarms, troubles, or supervisory events.

4.3 Maintenance Menus

The PMI-3 provides access to maintenance menus that highlight system features and capabilities. These menus allow authorized users to perform actions such as:

- Arming and disarming points.
- Initiating system testing.
- Generating system reports.

Access to maintenance functions typically requires specific user credentials to ensure system security.

5. Maintenance

Regular maintenance of the PMI-3 module and the associated Fire Alarm Control Panel is essential to ensure reliable operation and compliance with safety regulations. All maintenance procedures should be performed by certified technicians.

5.1 Routine Checks

- **Visual Inspection:** Periodically inspect the module for any visible damage, loose connections, or dust accumulation.
- **Display Cleanliness:** Gently clean the LCD touch screen with a soft, lint-free cloth. Do not use abrasive cleaners or solvents.
- **Functionality Test:** Regularly test the system in accordance with local fire codes and manufacturer recommendations to ensure all components, including the PMI-3, are functioning correctly.

5.2 Software Updates

Ensure that the firmware of the PMI-3 and the FACP is kept up-to-date. Consult with your fire safety system provider for information on available updates and recommended update schedules.

6. Troubleshooting

This section provides general guidance for common issues. For complex problems or issues that cannot be resolved, contact a qualified fire alarm system technician.

Problem	Possible Cause	Solution
PMI-3 display is blank.	No power to FACP; loose connection; module fault.	Check FACP power supply. Verify all cables are securely connected. If problem persists, contact service.
Touch screen unresponsive.	Software glitch; screen calibration issue; physical damage.	Attempt a system reset (if applicable and safe). Recalibrate screen if option is available in maintenance menu. If damaged, module replacement may be necessary.

Problem	Possible Cause	Solution
Incorrect event status displayed.	Sensor fault; wiring issue; FACP communication error.	Verify the status of connected devices. Check FACP logs for communication errors. Contact technician for diagnosis.

7. Specifications

Feature	Detail
Model Number	PMI-3
Brand	N.S
Display Type	6" (15.2 cm) Color LCD, Touchscreen (1200 x 800 pixels)
Color	Black
Item Package Quantity	1
Operating Temperature	Up to 49 Degrees Celsius
Certifications	UL864 10th Edition Listed, CSFM, NYCFD Approved
UPC	767571883288

8. Warranty and Support

For specific warranty terms, technical support, and service inquiries regarding your N.S. PMI-3 module, please refer to the documentation provided with your Fire Alarm Control Panel system or contact your authorized N.S. distributor or fire safety system integrator. Warranty coverage and support services are typically provided by the manufacturer or the installing company.

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