Potter IPA-4000 — User Manual

System Description

The Potter IPA-4000 is an expandable analog/addressable releasing fire alarm system with a total capacity of 4,064 addresses. It uses Potter's addressable protocol and can be expanded with up to 31 additional SLCs, each supporting up to 127 devices. The system includes releasing capabilities for fire suppression applications.

User Interface

• 4 × 40 LCD display provides system status and event information.

• Navigation keys allow operation of the panel menu.

• Common controls include Silence, Reset, Acknowledge and Drill.

• Panel indicators include AC Power, Alarm, Earth Fault, Supervisory, Silenced, Trouble, Pre-Release and Release.

P-Link

• The proprietary P-Link communication protocol uses an RS-485 connection to field devices.

• Up to 64 devices may be connected to a single P-Link connection.

• Compatible devices include annunciators, power supplies, SLC expansion modules, relay modules and communication interfaces.

Ethernet / IP

• The panel includes an Ethernet connection for programming and network connectivity.

• When configured, the system can email alarm, trouble, supervisory, test, event-history and detector-status information.

• The Ethernet connection is listed as an IP communicator for compatible monitoring applications.

Releasing

• The IPA-4000 is listed for releasing fire suppression systems.

• Software supports cross zones, counting zones and timers for suppression.

• The system can provide multiple release outputs across multiple hazards.

• PSN-1000 series intelligent power supplies can extend releasing and notification capability.

Maintenance & Testing

• Carry out inspection, testing and maintenance according to NFPA 72, local requirements and the approved system documentation.

• Document all tests and return the system to normal operating condition after service.

• Verify the latest Potter documentation before installation or commissioning.

Technical Specifications

• Dimensions: 18 15/16 in W × 27 5/16 in H × 4 7/16 in D.

• AC mains: 5.0 A @ 120 VAC, 50/60 Hz; 3.0 A @ 240 VAC, 50/60 Hz.

• Enclosure: 16-gauge cold rolled steel with removable locked door and Lexan viewing window.

• Standby current: 130 mA.

• Alarm current: 220 mA.

• Power: 10 A for NACs, I/O and P-Link.

• NAC output: 3 A per NAC, regulated.

• I/O output: 1 A per I/O circuit, regulated.

• Battery charger range: 8–55 Ah.

• Battery charger voltage: 27.3 VDC.

• P-Link maximum current: 1 A.

• Operating temperature: 32° to 120°F (0° to 49°C).

• Maximum humidity: 93% non-condensing.

• Standards include NFPA 12, 12A, 13, 15, 16, 17, 17A, 70, 72, 92, 750 and 2001, ANSI/UL 864 and IBC.