Farenhyt

Intelligent Fire Alarm Control Panel

IFP-100

IFP-100 is an intelligent analog/addressable fire control panel. The basic IFP-100 system has a single SLC loop and four notification appliance circuits that can be programmed for notification outputs or auxiliary power. IFP-100 also has a built-in dual line digital fire communicator, Form C trouble relay, and two programmable Form C relays. The firmware has powerful features, such as detector sensitivity, day/night thresholds, drift compensation and pre-trouble maintenance alert.

IFP-100 supports a variety of other devices that can be added to the system such as RA-100 remote annunciator, 5824 serial/parallel printer interface module (for printing system reports), and 5496 intelligent power module, and Hochiki (SD) or Intelligent Device Protocol (IDP) devices.

Features

- Built-in support for up to127 Hochiki devices or 99 IDP detectors and 99 IDP modules
- Uses standard wire—no shielded or twisted pair required
- Built-in digital communicator for remote reporting of system activity and system programming using either SIA or CID formats.
- Central station reporting by point or by zone
- Jumpstart® auto-programming
- Supports Class B (Style 4) and Class A (Style 6 or Style 7) configuration for SLC
- Distributed, intelligent power
- Built-in synchronization for AMSECO, Gentex®, Faraday, System Sensor®, and Wheelock® appliances
- Sensor sensitivity settings and day/night sensitivity setting
- Automatic drift compensation
- Notification circuits configurable as 2 Class A (Style Z), 4 Class B (Style Y), or auxiliary power for resettable, constant, or door holder power
- Built-in annunciator with a backlit 80-character LCD display
- RS-485 bus provides communication to system accessories
- Built-in Form C trouble relay rated at 2.5 amps at 27.4 VDC
- Two built-in Form C programmable relays rated at 2.5 amps at 27.4 VDC
- SLC device locator can be used to locate a single or multiple devices on a SLC loop
- System automatically performs detector sensitivity test
- 13 preset notification cadence patterns (including ANSI 3.41) and four user programmable patterns
- Built-in RS-232 and USB interface for programming
- Upload or download programming, event history, or detector status onsite or from a remote location using a PC and 5650/5651 Silent Knight Software Suite (SKSS)
- Improvements in SKSS deliver five times faster upload/downloads
- Non volatile event history stores up to 1000 events
- 125 Software zones and 125 output groups

Agency Listings

MEA

429-92-E Vol. XIV

IFP-100

- 6 amp power supply and maximum charging capacity of 35 amp hours (An additional cabinet enclosure is required for batteries in excess of 18 amp hours)
- Integrated dead front panel protects operator from exposure to electrical components
- The FACP enclosure features a Plexiglass® viewing window to protect annunciator
- Programmable to automatically display oldest event first or display tally of system events
- Acknowledge function allows operator to keep track of event status
- Programmable date setting for Daylight Saving Time

Installation

The IFP-100 can be surface or flush mounted.

Compatibility

The IFP-100 SLC supports multiple device types of the *same* protocol:

- Hochiki
- IDP

You cannot mix Hochiki and IDP devices on a FACP. See Hochiki Devices data sheet (PN 350360) and IDP Device Protocol Devices data sheet (PN 350361).

P/N 350388 Rev G

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Specifications

Physical

Flush Mount Dimensions: 14.5"W x 24.75"H x 3.5"D
(36.8 W x 62.9 H x 8.73 D cm)

Overall Dimensions: 16"W x 26.4"H x 4.65"D
(40.6 W x 67 H x 11.8 D cm)

Weight: 28 lbs. (12.8 kg)

Color: Red

Environmental

Operating Temperature: 32ºF – 120ºF (0ºC – 49ºC)

Humidity: 10% – 93% non-condensing

Electrical

Primary AC: 120 VRMS @ 50/60 Hz, 2.5A

Total Accessory Load: 6A @ 27.4 VDC power-limited

Standby Current: 170 mA

Alarm Current: 325 mA

Battery Charging Capacity: 7 to 35 AH

Battery Size: 18 AH max. allowed in control panel cabinet. Larger capacity batteries can be housed in RBB accessory cabinet.

Notification Appliance Circuits

Four circuits that can be programmed individually as:
Notification Circuits: 3A per circuit @ 27.4 VDC, power-limited
Auxiliary Power Circuits: 3A per circuit @ 27.4 VDC, power-limited

Indicator Lights

Alarm (Red): Flashes when in alarm; solid when alarm silenced

Supervisory (Yellow): Flashes when a supervisory condition exists; solid when supervisory silenced

Trouble (Yellow): Flashes when a trouble condition exists; solid when trouble silenced

Silenced (Yellow): Solid when an alarm, trouble or supervisory condition has been silenced but not yet cleared

Power (Green): Flashes for AC failure; solid when power systems are normal

Telephone

Requirements: FCC Part 15 & Part 68 approved

Jack: RJ31X (two required)

Approvals

NFPA 13, NFPA 15, NFPA 16, NFPA 70, &
NFPA 72: Central Station; Remote Signalling; Local Protective Signalling Systems; Auxiliary Protected Premises Unit; & Water Deluge Releasing Service. Suitable for automatic, manual, waterflow, sprinkler supervisory (DACT non-coded) signalling services.

Other Approvals: UL Listed; CSFM 7170-0559: 142; MEA 429-92-E Vol. XIV

Approved Releasing Solenoids

Manufacturer	Part Number	Rating
Asco	T8210A107	24 VDC, 3 A
Asco	8210G207	24 VDC, 3 A

Ordering Information

IFP-100	Intelligent Fire Alarm Control Panel.

SBUS Accessories

RA-100	Remote Annunciator. Same operation and similar appearance to FACP annunciator.
RA-1000R	Remote Annunciator. Four line LCD annunciator with 20 characters per line. Red.
RA-1000	Remote Annunciator. Four line LCD annunciator with 20 characters per line. Gray.
RPS-1000	Intelligent Power Module.
5496	Intelligent Power Module.
5824	Serial/Parallel Printer Interface Module.
5880	LED I/O Module.
5865-3 & 5865-4	LED Fire Annunciators.
5883	Relay Interface Board.

Hochiki and IDP Devices

See the specification sheets listed below for a complete listing of the Hochiki and IDP devices.

350360	Hochiki Devices Specification Sheet.
350361	Intelligent Device Protocol Devices Specification Sheet.

Miscellaneous Accessories

5650/5651	Silent Knight Software Suite. Provides programming, upload/download, and event reporting.
5670	Silent Knight Software Suite. Provides facility monitoring.
RBB	Remote Battery Box Accessory Cabinet. Use if backup batteries are too large to fit into FACP cabinet. Dimensions: 16" W x 10" H x 6" D (406 mm W x 254 mm H x 152 mm D)