Farenhyt

SILENT KNIGHT
by Honeywell

Addressable Fire Control Panel - Chicago

Analog/Addressable Fire Alarm Control Panel

IFP-1000

City of Chicago, Class 1 Addressable Approved

IFP-1000 is an intelligent analog/addressable fire alarm control panels (FACPs). The basic IFP-1000 system has one signal line circuit (SLC) loop that supports up to seven 5815XL signal line circuit expanders

IFP-1000 has six on-board Flexput™ circuits that can be configured for auxiliary power, notification outputs, or for conventional smoke detector inputs (Class A or Class B). The FACP 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, pre-trouble maintenance alert, and calibration trouble alert.

IFP-1000 supports a variety of devices, including RA-1000 remote annunciator, 5824 serial/parallel printer interface module (for printing system reports), RPS-1000 intelligent power module, and Hochiki or Intelligent Device Protocol (IDP) devices.

Features

- Built-in support for up to 127 Hochiki devices or 99 IDP detectors and 99 IDP modules, expandable to 1016 Hochiki devices or 792 IDP detectors and 792 IDP modules
- Uses standard wire—no shielded or twisted pair required
- Built-in UL listed digital communicator for remote reporting of system activity and system programming
- Central station reporting by point or by zone
- Supports Class B (Style 4) and Class A (Style 6 or Style 7) configuration for SLC, and SBUS
- Distributed, intelligent power
- Sensor sensitivity settings, day/night sensitivity setting and automatic drift compensation
- Flexput™ I/O circuits configurable for auxiliary power, notification outputs, or conventional smoke detector inputs. Notification circuits can be configured as Class A (Style Z) or Class B (Style Y). 2- and 4-wire smoke detectors can be configured as Class A (Style D) or Class B (Style B)
- Built-in annunciator with a backlit 80-character LCD display
- RS-485 bus provides communication to system accessories
- 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 delivers five times faster upload/downloads
- 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 locate a single or multiple devices on a SLC loop
- System automatically tests addressable devices
- 13 preset notification cadence patterns (including ANSI 3.41) and four user programmable patterns
- Programmable to automatically display initial event first or display tally of system events



IFP-1000

- Built-in synchronization for appliances from AMSECO, Gentex®, Faraday, System Sensor®, and Wheelock®
- Acknowledge function allows operator to keep track of event status
- Jumpstart® auto-programming
- Nonvolatile event history stores up to 1000 events
- 125 software zones and 250 output groups
- 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)
- Programmable date setting for Daylight Saving Time
- Plex-1 door option combines a dead front cabinet door with a clear window, limiting access to the panel while providing single button operation of the reset and silence functions

Installation

IFP-1000 can be surface or flush mounted.

Compatibility

IFP-1000 SLC supports multiple device types of the *same* protocol, Hochiki or IDP. You cannot mix Hochiki and IDP devices on a FACP. However, any combination of addressable devices of the same protocol can be used on the IFP-1000.

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

350360 Hochiki Device Data Sheet

350361 Intelligent Device Protocol (IDP) data sheet

P/N 350336 Rev C

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Specifications

Physical

Flush Mount Dimensions: 14.5”W x 24.75”H x 3.9”D
(36.8 W x 62.9 H x 9.8 D cm)
Overall Dimensions: 16.2”W x 26.4”H x 4.2”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, 2.7A
Total Accessory Load: 6A @ 27.4 VDC power-limited
Standby Current: 140 mA Alarm Current: 260 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.

Flexput Circuits

Six 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
Initiation Circuit: 100 mA per circuit @ 27.4 VDC, power-limited

Telephone

Requirements: FCC Part 15 & Part 68 approved
Jack: RJ31X (two required)

Chicago Building Code Requirements

The models CTD2G, CITY, and FIRE are designed to comply with conventional and addressable Class I type building requirements of the City of Chicago, Illinois. They provide the ability to perform silencing of the system trouble bell and the city tie disconnect bell along. They also allow disconnecting of the municipal tie fire alarm box. For City of Chicago fire alarm projects, a fire alarm plan review and permit are 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.

Other Approvals: UL Listing; CSFM 7170-0559: 135;
MEA 429-92-E Vol. VI; FM Approved; City of Chicago, Class 1 Addressable Approved.

General Ordering Information

IFP-1000	Intelligent Fire Alarm Control Panel.

SBUS Accessories

5815XL	Signal Line Circuit (SLC) Expander.
RPS-1000	Intelligent Power Module.
5880	LED I/O Module.
5865-3 & 5865-4	LED Fire Annunciators.

Miscellaneous Accessories

5650/5651	Silent Knight Software Suite. Provides programming, upload/download, and event reporting.
Plex-1	Door Accessory. Dead front cabinet door with clear window to limit access to panel.
RBB	Remote Battery Box Accessory Cabinet.

Ordering Information

CTD2G

City Disconnect Switch used to disconnect the fire alarm panel from reporting any alarm or trouble condition to the city in order to test and maintain the fire alarm system. When the key switch is turned to the Disconnect position a white pilot light illuminates to inform the user that the panel has been disconnected.

FIRE

Fire Alarm Trouble Bell module used to silence and test the fire alarm trouble bell. When the fire alarm system is in trouble the bell will ring. Moving the toggle switch to Bell Silence will silence the bell and activate the Bell Silenced LED.

CITY

City Tie Trouble module used to silence and test city tie disconnect troubles. When the CTD2G key switch is in the Disconnected position, the City Tie Trouble bell will ring. Moving the toggle switch to Bell Silence will silence the bell and activate the Bell Silenced LED.

For the above parts, contact the following vendor:
Gemcom, Inc, 8828 S. Archer Ave,
Chicago, IL 60480 800-871-6840
www.gemcom.com



City Disconnect Switch



Fire Alarm Trouble



City Tie Trouble

Additional Equipment Required

The equipment listed below is required to comply with Class I type requirements:

- Silent Knight Plex-1 Door Front Cabinet Door.
- An incandescent backlit annunciator. Contact the vendor listed below for the custom model XL8 Tabular Annunciator with the Silent Knight 5880 LED I/O Module.

Space Age Electronics, Inc., 406 Lincoln Street,
Marlboro, MA 01752 (800) 486-1723.


XL8 Tabular Annunciator from Space Age Electronics

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This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice. For more information, contact Silent Knight 12 Clintonville Road, Northford, CT 06472-1610. Phone: (203)484-7161, Fax: (203)484-7118. www.farenhyt.com

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