IFP-300 SERIES

Intelligent Fire Alarm Control Panel with Communicator

The IFP-300 Series features an expandable SLC circuit, four Flexput® circuits, dual-line DACT, powerful software features, and networkability for up to 32 panels.



The IFP-300 (red) and IFP-300B (black) are the latest intelligent addressable FACPs (Fire Alarm Control Panels) from Honeywell's Farenhyt™ line and are direct replacements for the IFP-100 FACP. The IFP-300 has one SLC (signaling line circuit) loop for connecting addressable detectors, which can support 159 System Sensor® IDP/SK sensors and 159 IDP/SK modules or 127 Hochiki® SD devices per loop. Additional SLC loops can be added for a maximum of 300 (IDP/SK) or 254 (SD) points per panel.

The IFP-300 has the interconnection capability for up to 32 panels. The system has two modes of operation, multiple panels covering one larger building, or multiple independent buildings. The SK-NIC Network Interface Card is used to network panels together. Copper wire or fiber optic cable connectivity can be used within the same networked system.

The built-in digital alarm communicator/transmitter (DACT) is dual technology, IP and POTS. The POTS transmits system status (alarms, troubles, AC loss, etc.) to a Central Station via the public switched telephone network. The IP communicator's internet monitoring capability sends alarm signals over the Internet saving the monthly cost of two dedicated business telephone lines. Although not required, the secondary telephone line may be retained providing backup communication over the public switched telephone line. Optional cellular reporting is available.

The IFP-300 has four onboard Flexput® circuits that can be configured as notification outputs or auxiliary power. There are four types of Aux power available: door holder, constant power, resettable power and sounder sync power. The IFP-300 also has form-C trouble relay, and two programmable form-C relays, along with powerful features such as drift compensation, pre-trouble maintenance alert, a built-in sensor test to comply with NFPA 72 calibration testing requirements, and a calibration trouble alert.

The IFP-300 supports a variety of devices, including RA-2000, RA-1000, or RA-100 remote annunciators, 5824 serial/parallel printer interface modules (for printing system reports), RPS-1000 power modules, and IDP, SK, SWIFT® wireless, or SD devices.

FEATURES AND BENEFITS

- Complies with UL 864 10th Edition
- Expandable SLC loops to 300 (IDP/SK) or 254 (SD) addressable point capacity
- Four Flexput circuits (3 amps max) for NAC outputs or auxiliary power
- Selectable strobe synchronization for Amseco®, System Sensor, Wheelock®, and Gentex® devices
- 250 software zones and 250 output groups for flexible design options
- Built-in dual phone line, digital alarm communicator/ transmitter (DACT) with IP and optional cellular technologies
- Four line LCD display with 40 characters per line
- Built-in USB interface for quick and easy programming
- JumpStart® auto programming reduces installation time
- 13 preset notification cadence patterns (including ANSI® 3.41)
- Allows up to 24 SBUS devices
- Two programmable relays and one fixed trouble relay
- Convenient field-upgradeable firmware
- Supports up to four SWIFT wireless gateways which can foster up to 49 wireless devices each
- Network support for up to 32 sites
- Network card allows copper network connection with a multi-mode or single-mode fiber connection
- Programmable date setting for Daylight Savings Time
- History file with 1,000 event capacity
- Available in red or black cabinet
- Can be surface or flush-mounted

Honeywell

Farenhyt Series

USER INTERFACE

LED INDICATORS

- General Alarm (Red)
- Supervisory (Yellow)
- System Trouble (Yellow)
- System Silenced (Yellow
- System Power (Green)

KEYPAD

- 12-key numeric pad
- Acknowledge
- Alarm Silence
- System Reset
- F1-F4 Programmable Function Keys

PROGRAMMING

The IFP-300 system offers several options to simplify and expedite programming. JumpStart auto programming minimizes programming required to start a new system. The built-in keypad, or the remote annunciators give on-site access to current system programming. System programming can also be accomplished using the Windows®-based Honeywell Fire Software Suite (HFSS).

ORDERING INFORMATION

IFP-300: Addressable fire alarm control panel, red

IFP-300B: Addressable fire alarm control panel, black

COMPATIBLE SBUS DEVICES

RA-2000: 4x40 LCD remote fire annunciator with four programmable buttons, red

RA-2000GRAY: 4x40 LCD remote fire annunciator with four programmable buttons, gray

RA-1000: 4x20 LCD remote fire annunciator, gray

RA-1000R: 4x20 LCD remote fire annunciator, red

RA-100: 4x20 LCD remote fire annunciator, red

5865-3: LED annunciators can display up to 30 LEDs (15 red and 15 yellow)

5865-4: LED annunciators can display up to 30 LEDs (15 red and 15 yellow). Key switches for silence and reset, and a system trouble LED

5880: LED I/O module with 40 programmable LED outputs and eight supervised dry contact inputs

5883: Relay interface. Provides 10 Form C relays

5824: Serial/Parallel printer interface module for printer connection

SK COMPATIBLE ADDRESSABLE DEVICES

Note: SK and SD devices cannot be mixed in the same system. Refer to the *Device Compatibility Document* and *SLC Wiring Manual* for more information.

SK-ACCLIMATE: Multi criteria photoelectric smoke detector with thermal 135°F fixed temperature

SK-BEAM: Reflected beam smoke detector without test feature

SK-BEAM-T: Reflected beam smoke detector with test feature

OSI-RI-SK: Reflected beam smoke detector, SK protocol

SK-CONTROL: Supervised control module

SK-CONTROL-6: Six circuit supervised control module

SK-DUCT: Photoelectric duct smoke detector with extended air speed range

SK-FIRE-CO: Four criteria fire and carbon monoxide detector

SK-FIRE-CO-W: Four criteria fire and carbon monoxide detector, white

SK-HEAT: Fixed thermal detector (135°F)

SK-HEAT-W: Fixed thermal detector (135°F), white

SK-HEAT-ROR: Fixed rate of rise detector

SK-HEAT-HT: Fixed high temperature thermal detector (190°F)

SK-HEAT-HT-W: Fixed high temperature thermal detector (190°F), white

SK-HEAT-ROR-W: Fixed rate of rise detector, white

SK-ISO: Fault isolator module

SK-MINIMON: Mini monitor module

SK-MONITOR: Monitor module

SK-MONITOR-2: Dual input monitor module

SK-MON-10: 10- input monitor module

SK-PHOTO: Photoelectric smoke detector

SK-PHOTO-W: Photoelectric smoke detector, white

SK-PHOTO-R: Photoelectric detector with remote test capability

SK-PHOTO-R-W: Photoelectric detector with remote test capability, white

SK-PHOTO-T: Photoelectric smoke detector with fixed thermal heat (135°F)

SK-PHOTO-T-W: Photoelectric smoke detector with fixed thermal heat (135°F), white

SK-PTIR-W: Multi criteria photoelectric smoke detector with thermal 135°F fixed temperature, white

SK-PULL-SA Addressable single action pull station

SK-PULL-DA: Addressable dual action pull station

SK-RELAY: Addressable relay module

SK-RELAY-6: Addressable Six relay control module

SK-RELAYMON-2: Addressable Dual relay/monitor module

SK-ZONE: Addressable zone interface module

SK-ZONE-6: Six zone interface module

IDP COMPATIBLE ADDRESSABLE DEVICES

Note: IDP and SD devices cannot be mixed in the same system.

IDP-ACCLIMATE: Multi criteria photoelectric smoke detector with thermal 135°F fixed temperature

IDP-BEAM: Reflected beam smoke detector without test feature

IDP-BEAM-T: Reflected beam smoke detector with test feature

OSI-RI-IDP: Reflected beam smoke detector, IDP protocol

IDP-CONTROL: Supervised control module

IDP-CONTROL-6: Six circuit supervised control module

IDP-DUCT: Photoelectric duct smoke detector with extended air speed range

IDP-FIRE-CO: Four criteria fire and carbon monoxide detector

IDP-FIRE-CO-W: Four criteria fire/carbon monoxide detector, white

IDP-FIRE-CO-IV: Four criteria fire/carbon monoxide detector, ivory

IDP-HEAT: Fixed thermal detector (135°F)

IDP-HEAT-W: Fixed thermal detector (135°F), white

IDP-HEAT-IV: Fixed thermal detector (135°F), ivory

IDP-HEAT-ROR: Fixed rate of rise detector

IDP-HEAT-HT: Fixed high temp thermal detector (190°F)

IDP-HEAT-HT-W: Fixed high temp thermal detector (190°F), white

IDP-HEAT-HT-IV: Fixed high temp thermal detector (190°F), ivory

IDP-HEAT-ROR-W: Fixed rate of rise detector, white

IDP-HEAT-ROR-IV: Fixed rate of rise detector, ivory

IDP-ISO: Fault isolator module

IDP-MINIMON: Mini monitor module

IDP-MONITOR: Monitor module

IDP-MONITOR-2: Dual input monitor module

IDP-MON-10: 10- input monitor module

IDP-PHOTO: Photoelectric smoke detector

IDP-PHOTO-W: Photoelectric smoke detector, white

IDP-PHOTO-IV: Photoelectric smoke detector, ivory

IDP-PHOTO-R: Photoelectric detector with remote test capability

IDP-PHOTO-R-W: Photoelectric detector with remote test capability, white

IDP-PHOTO-R-IV: Photoelectric detector with remote test capability, ivory

IDP-PHOTO-T: Photoelectric smoke detector with fixed thermal heat (135°F)

IDP-PHOTO-T-W: Photoelectric smoke detector with fixed thermal heat (135°F), white

IDP-PHOTO-T-IV: Photoelectric smoke detector with fixed thermal heat (135°F), ivory

IDP-PTIR-W: Multi criteria photoelectric smoke detector with thermal 135°F fixed temperature, white

IDP-PTIR-IV: Multi criteria photoelectric smoke detector with thermal 135°F fixed temperature, white

IDP-PULL-SA Addressable single action pull station

IDP-PULL-DA: Addressable dual action pull station

IDP-RELAY: Addressable relay module

IDP-RELAY-6: Addressable Six relay control module

IDP-RELAYMON-2: Addressable Dual relay/monitor module

IDP-ZONE: Addressable zone interface module

IDP-ZONE-6: Six zone interface module

SK/IDP BASES

B210LP: 6" mounting base

B501: 4" Flangeless mounting base

B200S: Intelligent sounder base

B200S-LF: Low-frequency intelligent sounder base

B224RB: Relay base

B224BI: Isolator base

SD COMPATIBLE ADDRESSABLE DEVICES

Note: SK/IDP and SD devices cannot be mixed in the same system.

SD505-6AB: Addressable 6" base

SD505-6IB: Addressable 6" short circuit isolator base

SD505-6RB: Addressable 6" relay base

SD505-6SB: Addressable 6" sounder base

SD500-AIM: Addressable input module (switch input)

SD500-ANM: Addressable notification module

SD500-ARM: Addressable relay module

SD505-DTS-K: Remote test switch/LED indicator for the SD505-DUCTR

SD505-DUCT: Addressable Duct Smoke Detector

SD505-DUCTR: Addressable Duct Detector housing with relay base

SD505-HEAT: Absolute temperature heat detector. Trip point range from 135°F–150°F (0°C–37°C)

SD500-LIM: Addressable Line isolator module

SD500-MIM: Addressable Mini input monitor module (switch input)

SD505-PHOTO: Photoelectric smoke detector

SD500-PS/-PSDA: Addressable Single or dual action pull station

SD500-SDM: Addressable smoke detector module

SWIFT WIRELESS DEVICES

Note: SWIFT is only compatible with System Sensor (SK/IDP) devices. It is not compatible with Hochiki (SD) devices.

WIDP-WGI: Wireless gateway

WIDP-PHOTO: Wireless photoelectric smoke detector

WIDP-ACCLIMATE: Wireless ACCLIMATE detector

W-SYNC: Wireless sync module

WIDP-HEAT: Wireless, fixed heat detector (135°F)

WIDP-HEAT-ROR: Wireless rate-of-rise heat detector

WIDP-MONITOR: Wireless monitor module

WIDP-RELAY: Wireless relay module

WIDP-PULL-DA: Wireless pull station

B210: Wireless detector base

WAV-CRL, WAV-CWL: Wireless AV bases

W-USB: Wireless USB radio/antenna dongle that plugs into the USB port of a PC running SWIFT Tools

SWIFT Tools: Programming and diagnostic utility for the wireless gateway and devices. Available for download from www.farenhyt.com

SYSTEM EXPANDERS

RPS-1000: 6A power supply with six Flexput circuits and two Form C relays

5496: 6A NAC power expander with four power-limited output circuits

OPTIONAL COMMUNICATORS

HWF2A-COM: Digital Cellular Fire Alarm Communicator and Internet Panel, AT&T

HWF2V-COM: Digital Cellular Fire Alarm Communicator and Internet Panel, Verizon

MISCELLANEOUS ACCESSORIES

SK-NIC: Network Interface Card. Provides a common communications link for the IFP-300

SK-NIC-KIT: Installation Accessory Kit

SK-FML: Fiber-Optic Multi Mode, transmitter and receiver

SK-FSL: Fiber-Optic Single Mode

RBB: Remote battery box accessory cabinet

SK-SCK: Seismic compliance kit to fasten batteries to the fire panel

SOFTWARE SOLUTIONS

HFSS: Honeywell Fire Software Suite provides remote and local panel programming, detector status, event history and additional data. Databases can be uploaded/downloaded via the panel's USB port using a flash drive. Requires a PC running Microsoft® Windows®.

IFP-300 SERIES TECHNICAL SPECIFICATIONS

SYSTEM CAPACITY

Intelligent Signaling Line Circuits: 1 (expandable)

Addressable device capacity: 300 (IDP/SK) or 254 (SD)

Programmable software zones: 250

Output circuits: 4 (expandable)

SBUS Devices: 24 (16 annunciators, 8 LED modules)

ELECTRICAL

AC Power: 120 VAC, 60 Hz, 3.3 A

Standby Current: 190 mA

Alarm Current: 250 mA

Flexput Circuits: Terminal block provides connections for (four Class B or two Class A) NACs or auxiliary power. Power-limited, supervised circuitry. Maximum current per circuit: 3 A. Cannot exceed 6A total for all circuits. End-of-line resistor: 4.7k ohm, ½ watt for Class B NACs

Communication Loop: Supervised and power-limited, Class A or Class B, 32VDC, 150mA

Two Programmable Relays and One Fixed Trouble Relay: Contact rating: 2.5 A @ 27.4 VDC (resistive), Form C

Battery: Cabinet holds maximum of two 18 AH batteries

Battery Charger Capacity: 17-55 AH

PHYSICAL

Dimensions: 16.4" W x 26.4" H x 4.1" D

(41.66cm W x 67.06cm H x 10.41cm D)

Weight: 45 lbs. (20.4 kg.)

Color: Red or Black

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 (non-condensing) 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.

NFPA STANDARDS

The IFP-300 complies with the following NFPA 72 Fire Alarms Systems requirements: NFPA 13, NFPA 15, NFPA 16, NFPA 70, NFPA 72

Central station; remote Signaling; Local Protective Signaling Systems; Auxiliary Protected Premises Unit; Water Deluge releasing service. Suitable for automatic, manual, waterflow, sprinkler supervisory (DACT non-coded) signaling services

AGENCY LISTINGS AND APPROVALS

UL Listed: S2766

CSFM: 7165-0559:0504

FDNY: COA# 6245

FM Approved

Seismic: (CA) VMA-45894-05C

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