

IFP-300U ULTRA SERIES

Intelligent Fire Alarm Control Panel with Communicator

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

The IFP-300U (red) and IFP-300UB (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-300U 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 318 (IDP/SK) or 254 (SD) points per panel.

The IFP-300U 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-300U has eight 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-300U 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-300U 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 318 (IDP/SK) or 254 (SD) addressable point capacity
- Eight Flexput circuits for NAC outputs, auxiliary 24V power, or conventional fire zones
- Selectable strobe synchronization for Amseco®, System Sensor, Wheelock®, and Gentex® devices
- 999 software zones and 999 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 panels
- 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



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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-300U: Addressable fire alarm control panel, red

IFP-300UB: 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

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

00RPS-1000: Intelligent Power Supply 6 outputs, 6amps, red cabinet

RPS-1000B: Intelligent Power Supply 6 outputs, 6amps, black cabinet

5496: Intelligent Power Supply 4 outputs, 6amps, red cabinet

5815XL: SLC Expander card Hochiki

6815: SLC Expander card IDP/SK

6815: SLC Expander for IDP and SK devices

5815XL: SLC expander for SD devices

RPS-1000(HV)5895XL: 6A power supply with six Flexput circuits and two Form C relays

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

IDP COMPATIBLE ADDRESSABLE DEVICES

Note: IDP, SK and SD devices cannot be mixed on the same fire alarm panel. In network setup, we do support mixed protocol on separate panels.

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

IDP-CONTROL: Supervised control module

IDP-CONTROL-6: Six circuit supervised control module

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

IDP-CO-W: Carbon Monoxide detector, white

IDP-PHOTO-CO-W: Photoelectric smoke detector with carbon monoxide detector, white

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

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

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

IDP-ISO: Fault isolator module

IDP-MINIMON: Mini monitor module

IDP-MONITOR: Monitor module

IDP-MONITOR-2: Dual input monitor module

IDP-MONITOR-10: 10- input monitor module

IDP-PHOTO-W: Photoelectric smoke detector, white

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

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

IDP-PTIR-W: 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 COMPATIBLE ADDRESSABLE DEVICES

Note: IDP, SK and SD devices cannot be mixed on the same fire alarm panel. In network setup, we do support mixed protocol on separate panels.

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

SK-CONTROL: Supervised control module

SK-CONTROL-6: Six circuit supervised control module

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

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

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-MONITOR-10: 10- input monitor module

SK-PHOTO-W: Photoelectric smoke detector, white

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

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

SK/IDP BASES

B300S-WH: 6" mounting base

B501: 4" Flangeless mounting base

B200S-WH: Intelligent sounder base

B200S-LF-WH: Low-frequency intelligent sounder base

B224RB: Relay base

B224BI: Isolator base

SWIFT WIRELESS DEVICES

Note: SWIFT is only compatible with IDP 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

OPTIONAL COMMUNICATORS

HW-AV-LTE-M-2: CLSS Pathway, Fire Alarm Dual Path Communicator, LTE Dual SIM, includes antenna, ETL & UL Listed.

HW-AV-ENC2-PS: 120V Power Supply with Metal Enclosure for CLSS Pathway (HW-AV-LTE-M-2 sold separately).

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®.

SYSTEM CAPACITY

- **Intelligent Signaling Line Circuits:** 1 built-in (expandable to 3 SLCs in-cabinet)
- **Addressable device capacity:** 318 (IDP/SK) or 254 (SD)
- **Programmable software zones:** 999
- **Output circuits:** 8 (expandable)
- **SBUS Devices:** 63 (any combination subject to SBUS line load calculation)

ELECTRICAL

- **AC Power:** 120 VAC, 60 Hz, 5 A or 240VAC, 50/60Hz 2.8A
- **Standby Current:** 230 mA
- **Alarm Current:** 415 mA
- **Flexput Circuits:** Terminal block provides connections for eight Class B or four Class A NACs, auxiliary 24VDC power or conventional fire zone outputs. Power-limited, supervised circuitry. Maximum current per circuit: 3 A. Cannot exceed 9A 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 @ 24 VDC (resistive), Form C
- **Battery:** Cabinet holds maximum of two 18 AH batteries
- **Battery Charger Capacity:** 17-55 AH

PHYSICAL

Dimensions: 21.6" W x 28.1" H x 5.1" D

(54.9cm W x 71.4cm H x 13 cm D)

Weight: 53 lbs. (24 kg.) 16.4"W x 26.4" H x 41." 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.

IFP-300U ULTRA SERIES TECHNICAL SPECIFICATIONS

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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