

IFP-300UECS ULTRA SERIES

Intelligent Fire Alarm Control Panel with Emergency Communication System

The IFP-300UECS Ultra Series panels and accessories provide features to meet the requirements for Mass Notification Systems as described in UL 2572 2nd Edition and UL 864 10th Edition.

The IFP-300UECS (red) and IFP-300UECSB (black) are intelligent addressable Fire Alarm Control Panels combined with an Emergency Communication System (ECS) and are direct replacements for the IFP300ECS/IFP-100ECS FACP. When the ECS features are enabled, they are integrated with the fire alarm and voice evacuation functions of the control panel.

The emergency communication system operations include an onboard supervised microphone. All-call and Non-active call buttons can quickly select all active or non-active output groups. The system also allows for emergency messages over fire.

The IFP-300UECS FACPs have one built-in signaling line circuit (SLC), which can support 159 IDP (Intelligent Device Protocol) or SK detectors and 159 IDP or SK modules, or 127 SD protocol devices. Additional SLC loops can be added for a maximum of 318 (IDP/SK) or 254 (SD) points per panel.

Each IFP-300UECS supports up to 16 digital amplifiers with max power of 2000 watts. Optional 50 watt amplifier can be installed inside the cabinet for a true one cabinet all-in-one fire and ECS solution for smaller applications.

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 through CLSS Gateway or CLSS Pathway.

The IFP-300UECS has eight onboard Flexput® circuits that can be configured as notification outputs, auxiliary power or conventional zones. The IFP-300UECS also has a 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-300UECS can be networked capable up to 32 panels. Network between panels using twisted pair wire or fiber optics. Mix and match single-mode or multi-mode fiber for flexibility in connectivity.

FEATURES AND BENEFITS

- Single enclosure for both fire and emergency control components
- Ability to select ECS messages as priority over fire
- 15 Recordable one-minute messages that can be mapped to eight ECS buttons
- Capable of producing 520 Hz low frequency tones to meet NFPA 72 requirements
- Support for up to 15 LOC consoles and 16 addressable amplifiers (max total power 2000 watts)
- Expandable SLC loops to 318 (IDP/SK) or 254 (SD) point capacity
- Eight Flexput circuits for NAC outputs, auxiliary power, or conventional zones
- Selectable strobe synchronization for Amseco®, System Sensor®, Wheelock®, and Gentex® devices
- Built-in DACT with IP and optional cellular reporting
- Built-in USB interface for quick and easy programming
- JumpStart® auto programming reduces installation time
- 999 software zones & 999 output groups for flexible design options
- 23 preset notification cadence patterns (including ANSI® 3.41)
- Allows up to 24 SBUS devices (subject to loading)



Honeywell

Farenhyt Series

- Four programmable function keys
- Two programmable relays and one fixed trouble relay
- Compatible with SWIFT® wireless devices
- Convenient field-upgradeable firmware
- Network support for up to 32 sites
- Network card allows copper network connection with a multi-mode or single-mode fiber connection
- Real-time clock/calendar with automatic daylight savings control
- History file with 1,000 event capacity

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
- Drill
- F1-F4 Programmable Function Keys

PROGRAMMING

The IFP-300UECS 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-300UECS: Addressable fire alarm control panel with emergency communication system, red

IFP-300UECSB: Addressable fire alarm control panel with emergency communication system, black

COMPATIBLE ECS EQUIPMENT

ECS-50W: 50 Watt amplifier, Red Cabinet

ECS-50WB: 50 Watt amplifier, Black Cabinet

ECS-125W: 125 Watt amplifier, Red Cabinet

ECS-125WB: 125 Watt amplifier, black

ECS-DUAL50W: 50 Watt dual amplifier

ECS-DUAL50WB: 50 Watt dual amplifier, Black

ECS-INT50W: 50 Watt internal amplifier, mount inside ECS panel using ECS-AMPMT plate (not included)

ECS-50WBU: External backup amplifier

ECS-CE4: Provides 4 additional audio circuits

ECS-RVM: Remote voice module

ECS-SW24: 24 switch expander

ECS-VCN: Voice control module

ECS-NVCN: Network voice control module

ECS-LOC: Local operator console

ECS-LOCB: Local operator console, black

ECS-LOC2100: Local operators console, red

ECS-LOC2100B: Local operator console, black

ECS-RPU: Remote paging unit. red

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

IDP COMPATIBLE ADDRESSABLE DEVICES

IDP and SK cannot be mixed on same panel but can be supported on different panels in a network.

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 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: SK and SD cannot be mixed on same panel but can be supported on different panels in a network.

SK-PTIR-W: 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-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 heat 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

B300-6-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 System Sensor (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-RL, WAV-WL, 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

6815: SLC Expander for IDP or SK devices
5815XL: SLC expander for SD devices
RPS-1000: 6A power supply with 6 Flexput circuits & 2 Form C relays
5496: 6 amp NAC power expander with 4 power-limited output ckts

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).
HON-CGW-MBB - CLSS Gateway. With optional CCM2-AV-HON Dual SIM (Verizon, AT&T) Cellular Communication Module.

MISCELLANEOUS ACCESSORIES

SK-NIC: Network Interface Card. Stock with twisted pair wire networking with optional transmit and/or receive fiber option cards SK-FSL or SK-FML.
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 used 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 (expandable)

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)

LOC units: 7

Addressable amplifiers (total watts): 8 (1000)

ELECTRICAL

AC Power: 120 VAC, 60 Hz, 5A or 240 VAC 50/60 Hz, 2.8A

Standby Current: 230 mA

Alarm Current: 415 mA

Flexput Circuits: Terminal block provides connections for (8 Class B or 4 Class A) NACs or auxiliary power. 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 13.0cm D)

Weight: 33 lbs. (15 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-300ECS complies with the following standards and codes:

NFPA 72

NFPA 13

NFPA 15

NFPA 16

NFPA 70

UL 864 10th Edition

UL2572 2nd Edition

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

IFP-300UECS ULTRA SERIES TECHNICAL SPECIFICATIONS

Farenhyt™ is a trademark, and Flexput®, Honeywell®, JumpStart®, SWIFT®, and System Sensor® are registered trademarks of Honeywell International Inc. Amseco® is a registered trademark of Potter Electric Signal Company, LLC. Gentex® is a registered trademark of Gentex Corporation. Hochiki® is a registered trademark of Hochiki Corporation. Wheelock® is a trademark of Cooper Technologies Company. ANSI® is a registered trademark of the American National Standards Institute, Inc. Microsoft® and Windows® are registered trademarks of Microsoft Corporation.

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.

Country of origin: USA