# IFP-2100ECS, IFP-2100ECSB

## Intelligent Fire Alarm Control Panel with Emergency Communication System

**The IFP-2100ECS panel and accessories provide features to meet the requirements for Mass Notification Systems as described in UL 2572.**

*IFP-2100ECSB*

The IFP-2100ECS (red) and IFP-2100ECSB (black) are intelligent addressable Fire Alarm Control Panels combined with an Emergency Communication System (ECS) and are direct replacements for the IFP-1000ECS and IFP-2000ECS FACPs. 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-2100ECS 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 2100 (IDP/SK) or 2032 (SD) points per panel.

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-2100ECS has eight onboard Flexput® circuits that can be configured as notification outputs or auxiliary power. The IFP-2100ECS 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.

A common communications and annunciation link allows up to 32 panels to be connected via copper or fiber optic cable. A designated panel is configured as the communicator for all panels in the link for convenient single-point communications.

## 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 tones to meet NFPA 72 requirements
- Support for up to 15 LOCs and 16 addressable amplifiers
- Expandable SLC loops to 2100 (IDP/SK) or 2032 (SD) point capacity
- Eight Flexput circuits for NAC outputs or auxiliary power
- 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 63 SBUS devices
- 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

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
- Drill
- F1-F4 Programmable Function Keys

# PROGRAMMING

The IFP-2100ECS 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-2100ECS: Addressable fire alarm control panel, red

IFP-2100ECSB: Addressable fire alarm control panel, black

## COMPATIBLE ECS EQUIPMENT

ECS-50W: 50 Watt amplifier

ECS-50WB: 50 Watt amplifier, black

ECS-125W: 125 Watt amplifier

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

ECS-50WBU: External backup amplifier

ECS-CE4: Provides 4 additional audio circuits

ECS-RVM: Remote voice module

ECS-SW24: 24 switch expander

ECS-VCM: Network voice control module

ECS-NVCM: Network voice control module

ECS-LOC: Local operator console

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

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

5865-4: LED annunciators- display up to 30 LEDs (15 red/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 fire alarm system.

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 heat detector (190°F)

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-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 det. with remote test capability, white

SK-PHOTO-T: Photoelectric smoke detector with fixed 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

IDP and SD devices cannot be mixed in the same fire alarm 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 det. with remote test capability, white

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

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

IDP-PHOTO-T-W: Photoelectric smoke detector with fixed 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 and SD devices cannot be mixed in the same fire alarm 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) 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

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

CELL-CAB-SK: Cellular communicator, metal enclosure w/lock & key

CELL-MOD: Cellular communicator, plastic enclosure

## 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 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®.

# IFP-2100ECS, IFP-2100ECSB TECHNICAL SPECIFICATIONS

## SYSTEM CAPACITY

**Intelligent Signaling Line Circuits:** 1 (expandable)

**Addressable device capacity:** 2100 (IDP/SK) or 2032 (SD)

**Programmable software zones:** 999

**Output circuits:** 8 (expandable)

**SBUS devices:** 63 (any combination)

**LOC units:** 15

**Addressable amplifiers (total watts):** 16 (2000)

## ELECTRICAL

**AC Power:** 120 VAC, 50/60 Hz, 5A

**Standby Current:** 230 mA

**Alarm Current:** 415 mA

**Flexput Circuits:** Terminal block provides connections for (eight Class B or four 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 NAC

**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:** 21.6" W x 28.1" H x 5.1" D (54.9cm W x 71.4cm H x 13.0cm D)

**Weight:** 53 lbs. (24 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-2100 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

The listings and approvals below apply to the basic IFP-2100 control panel. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

**UL Listed:** S2766

**CSFM:** 7165-0559:0505

**FDNY:** COA# 6251

**FM:** Approved

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

**Honeywell Fire Solutions**
12 Clintonville Road
Northford, CT 06472-1610
203.484.7161
www.farenhyt.com

351600 | D | 03/20
©2020 Honeywell International Inc.

THE FUTURE IS WHAT WE MAKE IT

Honeywell