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Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 12/14/15

Advanced Multi-Criteria Fire/CO Detector IDP-FIRE-CO

The IDP-FIRE-CO is a plug-in, addressable device that provides both fire and carbon monoxide (CO) detection. For fire, the detector combines four separate sensing elements in one unit (smoke, CO, light/flame, and heat) to sense multiple components of a fire. This approach enables enhanced sensitivity to real fire with heightened immunity to nuisance particulate. For CO, the detector's electrochemical sensing cell creates a separate signal for life safety CO detection.

Released through the incomplete burning of various fuels, CO is a colorless, odorless and deadly gas that is virtually impossible to detect with the human senses. Because the potential exists for dangerous levels of CO to accumulate in almost any building, legislation mandating the use of CO detection in commercial spaces continues to increase across the U.S. and Canada. The IDP-FIRE-CO is listed to the UL 2075 standard for system-connected life safety carbon monoxide monitoring.

The IDP-FIRE-CO should be used in conjunction with the B200S/B200S-LF intelligent sounder base (sold separately), which can generate either a Temp 3 pattern for fire or a Temp 4 pattern for CO alarm indication. With each sounder base carrying a unique address, the FACP can then command an individual sounder, or a group of sounders, to activate. The command set from the panel can be tailored to the specific event, allowing selection of tone, and group. For more information on the B200S/B200S-LF refer to Data Sheet P/N 351564.

IDP-FIRE-CO can also be used with the B210LP 6" standard base, the B200SR sounder base or the B224RB relay base.

Features

- Unique ability to detect all four major elements of a fire:
  - Smoke
  - Carbon Monoxide (CO)
  - Light/flame
  - Heat
- Separate CO detection signal
- Highest nuisance alarm immunity
- Automatic drift compensation of smoke sensor and CO cell
- Uses only one address on the SLC
- RealTest® CO testing capability
- UL 268 and UL 2075 listed
- Separates audible signal for fire or CO alarm when used with B200S/B200S-LF base
- CO cell end-of-life warning and fault

Agency Listings

IDP-Fire-CO installed in a B200S/B200S-LF Sounder Base (sold separately)

Compatibility

The IDP-FIRE-CO is compatible with the following FACPs programmed for System Sensor protocol: (Firmware version 13.0 or higher for IFP-100 & IFP-1000. Firmware version 4.0 or higher for IFP-2000).

- IFP-2000/RPS-2000 Intelligent Fire Panel
- IFP-2000ECS Emergency Communication System with Fire Alarm Control Pane
- IFP-1000 Intelligent Fire Panel
- IFP-1000ECS Emergency Communication System with Fire Alarm Control Panel
- IFP-100 Intelligent Fire Panel
- IFP-100ECS Emergency Communication System with Fire Alarm Control Panel
- IFP-50 Intelligent Fire Panel

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Specifications

Physical

Diameter:	6.875” (17.46 cm) installed in a B200S base
Height:	3.46” (8.79 cm) installed in B200S base
Shipping Weight:	4.6 oz
Color:	Ivory

Operating

Temperature Range:	32° F to 100° F (0° C to 38° C)
Humidity:	15 to 90% relative humidity (non-condensing)
Air Velocity:	0 to 4,000 ft/min (0 to 20 m/sec)

Electrical

Operating Voltage: 15 to 32 VDC

SLC Standby and Alarm Current: 300 µA

Sensitivity Settings

Sensitivity settings are programmable through zone programming.

Low:	4% per foot (30.48 cm) of smoke. Used in equipment rooms, kitchens, paint shop.
Medium:	3% per foot (30.48 cm) of smoke. Moderately clean environments: Used in hotel rooms, dorm rooms.
High:	2% per foot (30.48 cm) of smoke. Clean environments: Used in offices.

Warning: After the CO cell has reached the end-o
the CO sensor no longer provides life safety prote
However, when the fire detector enters Photo, The
Infrared (PTIR) mode, the following sensitivities ap

Level 1:	1% per foot (30.48 cm) of smoke. Very clean environments- Used in laboratories.
Level 2:	2% per foot (30.48 cm) of smoke. Clean environments - offices.
Level 5:	3% per foot (30.48 cm) of smoke. Moderately clean environments- Used in hotel rooms, dorm rooms.
Level 6:	Thermal alarm at 135° F (57° C).

CO Monitoring UL Standard Reference - Alarm Thresholds are as follows:

Parts Per Million	Detector Response Time
70 ± 5 ppm	60-240 min.
150 ± 5 ppm	10-50 min.
400 ± 10 ppm	4-15 min.

Note: Per UL Standard 2075, the IDP-FIRE-CO has been tested to the sensitivity limits defined in UL Standard 2034.

Ordering Information

IDP-FIRE-CO Multi-Criteria CO Detector (base not included)

Note: Due to the unique nature of this detector, please consult your Fire Alarm Control Panel Manufacturer for the specific model and compatibility.

Optional Accessories

B200S	Intelligent sounder base
B200S-LF	Low Frequency Intelligent sounder base
B210LP	6” mounting base
B200SR	Sounder base
B224RB	Relay base
M02-04-01	Detector test magnet
M02-09-01	Telescoping test magnet