Please refer to insert for the Limitations of Fire Alarm Systems

LICENSING STATEMENT

Use of these products in combination with non-Honeywell products in a wireless mesh network, or to access, monitor or control devices in a wireless mesh nework via the internet or another external wide area network, may require a separate license from Sipco, LLC.

For more information, contact Sipco, LLC or Ipco, LLC at 8215 Roswell Rd., Building 900, Suite 950, Atlanta, GA 303350, or at www.sipocollc.com or www.intusiq.com.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions

1. This device may not cause harmful interference, and

2. This device must accept any interference received, including interference that may cause undesired operation.

WARNING: Do not make changes to the equipment. Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement

INSTITUTO FEDERAL DE TELECOMUNICACIONES

This device complies with the IFETEL standard(s), IFT: RCPSYWU14-1829

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INSTALLATION AND MAINTENANCE INSTRUCTIONS



FWD-200P and FWD-200ACCLIMATE Wireless Intelligent Photoelectric Smoke Sensors

12 Clintonville Road Northford, CT 06472-1653 Phone: 203.484.7161

SPECIFICATIONS

Operating Voltage Range:

Standby Current: 210uA @ 3.3 VDC (one communication every 23.8 seconds with LED blink enabled)

Maximum Alarm Current (LED on): 5 mA @ 3.3 VDC LED on

Maximum Transmit RF Power: 17dBm

Radio Frequency Range: 902-928 MHz Operating Humidity Range: 10% to 93% Relative Humidity, Non-condensing

32°F to 120°F (0°C to 49°C), FWD-200P; 32°F to 100°F (0°C to 38°C), FWD-200ACCLIMATE Operating Temperature Range:

Air Velocity: 0 to 4000 ft/min

Battery Type: 4 Panasonic CR123A or 4 Duracell DL123A

Battery Life: 2 year minimum

Battery Replacement: Upon TROUBLE BATTERY LOW display and/or during annual maintenance

2.4" (61 mm) installed in B210W Base Height: 6.0" (152 mm) installed in B210W Base Diameter:

9.2 oz. (261 g) installed in B210W base with 4 batteries Weight:

This sensor must be installed in compliance with the control panel system installation manual and the SLC Wireless Gateway Manual. The installation must meet the requirements of the Authority Having Jurisdiction (AHJ). Sensors offer maximum performance when installed in compliance with the National Fire Protection Association (NFPA); see NFPA 72.

GENERAL DESCRIPTION

Models FWD-200P and FWD-200ACCLIMATE are plug-in type smoke sensors that combine a photoelectronic sensing chamber with wireless communication. The sensors transmit an digital representation of smoke density through a wireless mesh to a gateway. The gateway will send the information to the panel when requested. Rotary decade switches are provided for setting the sensor's address. (Figure 1)

Two LEDs on the sensor are controlled by the panel to indicate sensor status. Model FWD-200ACCLIMATE combines a photoelectronic sensing chamber and 135°F (57.2°C) fixed temperature heat detector. The FWD-200ACCLIMATE also transmits an alarm signal due to heat (135°F fixed) per UL 521.

Notifier panels offer different features sets across different models. As a result, certain features of the FWD-200P and FWD-200ACCLIMATE may be available on some control panels, but not on others. The possible features available in the FWD-200P and FWD-200ACCLIMATE, if supported by the control unit are:

• The panel controls the LED operation on the sensor. Operational modes include red, green and amber colors in various solid or blink patterns.

Please refer to the operation manual for the UL listed control unit for specific operation of the FWD-200P and FWD-200ACCLIMATE.

The FWD-200P and FWD-200ACCLIMATE require compatible addressable communications to function properly. Connect these sensors to listed-compatible control panels only.

SPACING

Notifier recommends spacing sensors in compliance with NFPA 72. In low air flow applications with smooth ceilings, space sensors 30 feet apart. When using the FWD-200ACCLIMATE as a heat detector in FM3210 compliant applications, space sensors 20 feet apart. For specific information regarding sensor spacing, placement, and special applications, refer to NFPA 72 or the System Smoke Detector Application Guide, available from Notifier.

NOTE: Do not attach the base and detectors to temporary structures such as removable ceiling tiles such that the placement could be altered. To prevent changes in device placement, permanently secure the structure or mount the detector across the ceiling panel support as shown in Figure 2.

BATTERY REPLACEMENT

Low battery levels on the wireless devices are displayed as a trouble on the FACP. Therefore when the message "TROUBLE BATTERY LOW" is displayed, replace the battery in the device. This message is an indication that approximately one week of battery life remains.

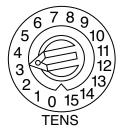
To replace the batteries in a wireless device use the following steps:

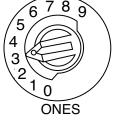
- 1. Have 4 CR123A (or DL123A) batteries available
- 2. The system allows 200 seconds to replace the batteries before the device is noted as missing and will activate the Rescue Mode within the wireless system.
- Remove the detector from the base.
- Open the battery compartment refer to Figure 3. Note: The battery compartment cover may be left attached at the hinges during battery replace-
- Remove the used batteries and replace with new batteries. The battery compartment is designed such that the batteries can only align in the appropriate direction. Do not force the batteries into the openings
- Replace the battery compartment cover.
- 7. Return the device to its original location.

ACAUTION

Dust covers provide limited protection against airborne dust particles during shipping. Dust covers must be removed before the sensors can sense smoke. Remove sensors prior to heavy remodeling or construction.

FIGURE 1. ROTARY ADDRESS SWITCHES:





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FIGURE 2. CEILING PANEL SUPPORT:

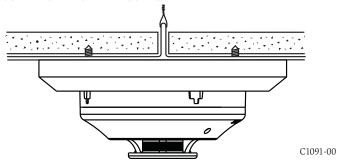
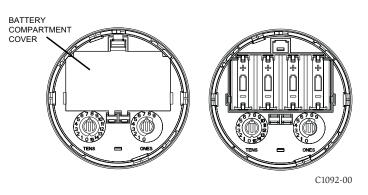


FIGURE 3. BATTERY COMPARTMENT:



TAMPER RESISTANCE

Models FWD-200P and FWD-200ACCLIMATE include a tamper-resistant capability that prevents their removal from the base without the use of a tool. Refer to the base manual for details on making use of this capability. The base also includes a magnet for tamper resistance. The magnet activates a supervisory tamper fault at the panel if the detector is removed from the base.

TESTING

Before testing, notify the proper authorities that the system is undergoing maintenance, and will temporarily be out of service. Disable the system to prevent unwanted alarms.

All sensors must be tested after installation and periodically thereafter. Testing methods must satisfy the Authority Having Jurisdiction (AHJ). Sensors offer maximum performance when tested and maintained in compliance with NFPA 72.

The sensor can be tested in the following ways:

A. Functional: Magnet Test (P/N M02-04-01 or M02-09-00)

This sensor can be functionally tested with a test magnet. The test magnet electronically simulates smoke in the sensing chamber, as well as tests the sensor electronics and connections to the control panel.

- 1. Hold the test magnet in the magnet test area as shown in Figure 4.
- 2. The sensor should alarm the panel.

Two LEDs on the sensor are controlled by the panel to indicate sensor status. Coded signals, transmitted from the panel, can cause the LEDs to blink, latch on, or latch off. Refer to the control panel technical documentation for sensor LED status operation and expected delay to alarm.

B. Smoke Entry

The GEMINI model 501 aerosol generator can be used for smoke entry testing. Set the generator to represent 4%/ft to 5%/ft obscuration as described in the GEMINI 501 manual. Using the bowl shaped applicator, apply aerosol until the panel alarms.

Additionally, canned aerosol simulated smoke (canned smoke agent) may be used for smoke entry testing of the smoke detector. Tested and approved aerosol smoke products are:

MANUFACTURER	MODEL
Home Safeguard Industries	25S and 30S
SDi	CHEK02 and CHEK06
SDi	SOLOA4
SDi	SMOKESABRE-01

When used properly, the canned smoke agent will cause the smoke detector to go into alarm. Refer to the manufacturer's published instructions for proper use of the canned smoke agent.

ACAUTION

Canned aerosol simulated smoke (canned smoke agent) formulas will vary by manufacturer. Misuse or overuse of these products may have long term adverse effects on the smoke detector. Consult the canned smoke agent manufacturer's published instructions for any further warnings or caution statements.

For FWD-200ACCLIMATE, smoke entry testing should be performed immediately following the magnet test. Magnet test initiates an approximately 5 minute period when the detector's signal processing software routines are not active. Failure to first perform the magnet test will introduce a time delay before the detector alarms.

C. Direct Heat Method (Hair dryer of 1000-1500 watts). FWD-200ACCLIMATE only.

A hair dryer of 1000-1500 watts should be used to test the thermistors. Direct the heat toward either of the two thermistors, holding the heat source approximately 12 inches from the detector in order to avoid damaging the plastic housing. The detector will reset only after it has had sufficient time to cool. Make sure both thermistors are tested individually.

A sensor that fails any of these tests should be cleaned as described under CLEANING, and retested. If the sensor fails after cleaning, it must be replaced and returned for repair.

When testing is complete, restore the system to normal operation and notify the proper authorities that the system is back in operation.

CLEANING

Before removing the detector, notify the proper authorities that the smoke detector system is undergoing maintenance and will be temporarily out of service.

Disable the zone or system undergoing maintenance to prevent unwanted alarms.

- 1. Remove the sensor to be cleaned from the system.
- 2. Remove the sensor cover by pressing firmly on each of the four removal tabs that hold the cover in place. (refer to Figure 5).
- 3. Vacuum the screen carefully without removing it. If further cleaning is required continue with Step 4, otherwise skip to Step 7.
- 4. Remove the chamber cover/screen assembly by pulling it straight out.
- Use a vacuum cleaner or compressed air to remove dust and debris from the sensing chamber.
- 6. Reinstall the chamber cover/screen assembly by sliding the edge over the sensing chamber. Turn until it is firmly in place.
- Replace the cover using the LEDs to align the cover and then gently
 pushing it until it locks into place. Make sure that the thermistors do not
 become bent under the cover on the FWD-200ACCLIMATE model.
- 8. Reinstall the detector.
- 9. Test the detector as described in TESTING.
- 10. Reconnect disabled circuits.
- 11. Notify the proper authorities that the system is back on line.

SPECIAL NOTE REGARDING SMOKE DETECTOR GUARDS

Smoke detectors are not to be used with detector guards unless the combination has been evaluated and found suitable for that purpose.

FIGURE 4. MAGNET TEST MARKERS:

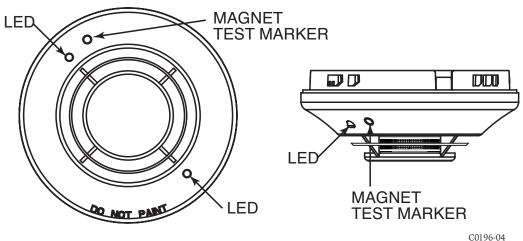
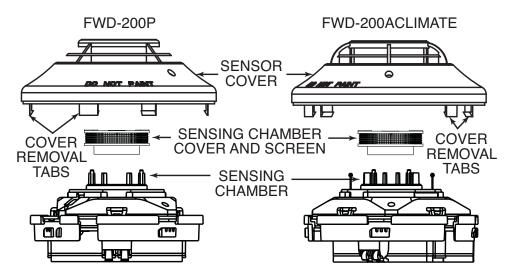


FIGURE 5. DETECTOR COMPONENTS:



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