

1183 SERIES WIRELESS HEAT DETECTOR

Installation Guide

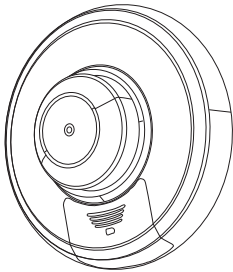


Figure 1: 1183 Series Wireless Heat Detector

DESCRIPTION

The 1183 Series is available in two models: 1183-135F and 1183-135R.

The 1183-135F is a fixed temperature detector that reacts to heat by responding to the fixed 135° temperature setting. When activated, an alarm is sent to the control panel. The 1183-135F model has a black dot on the heat collector fin for identification.

The 1183-135R model is a combination rate-of-rise and fixed temperature detector that detects heat quickly by responding to a rapid temperature increase or a fixed 135 ° temperature setting. The element responds to a rapid rise in temperature and sends an alarm to the control panel when the ceiling temperature increases at a minimum rate of 15 ° F per minute. An alarm is also sent to the panel if the ceiling temperature reaches the fixed 135 ° setting if the rate-of-rise is not exceeded.

What is Included?

- One 1183-135F or one 1183-135R Heat Detector with DMP wireless transmitter installed
- One 3V lithium CR123A battery
- Hardware pack



WARNING: 1183 Series Heat Detectors are single use detectors for the fixed rate feature. Do not test the 1183 with a heat source. The rate-of-rise is resettable, but the fixed rate is not. See Test the Detector Alarm for testing instructions.

1 PROGRAM THE TRANSMITTER IN THE PANEL

1. Locate and record the detector serial number. This number is required during programming.
2. Enter **6653** (PROG) at the keypad to enter the **PROGRAMMER** menu.
3. Press **CMD** until **ZONE INFORMATION** displays. Press a select key or area to enter the menu.
4. At **ZONE NO.**, enter the zone number.
5. At **ZONE NAME**, enter the zone name.
6. At **ZONE TYPE**, select **FI** (fire).
7. At **NEXT ZONE?**, select **NO**.
8. At **SERIAL NUMBER**, enter the eight-digit **SERIAL NO** found on the device and press **CMD**.
9. At **SUPVSN TIME**, enter **3** and press **CMD**.
10. At **BELL OPTIONS**, press **CMD** until **BELL OPTIONS** displays, and then press a select key or area.
11. At **FIRE BELL ACTION FIRE TYPE**, select **T** (temporal) as the action type.
12. Continue to program the zone as directed in the panel programming guide.



Note: When a receiver is installed, powered up, or the panel is reset, the supervision time for transmitters is reset. If the receiver has been powered down for more than one hour, wireless transmitters may take up to an additional hour to send a supervision message unless tripped, tampered, or powered up. This operation extends battery life for transmitters. A missing message may display on the keypad until the transmitter sends a supervision message.

Transmitted Signal Outputs


The heat detector provides the signals listed in the table:

Signal	Keypad Display
Alarm	ALARM
Low battery	LO BAT
Detector head removed	TROUBLE




2 INSTALL THE BATTERY

Observe polarity when installing the battery. Use only 3.0V lithium batteries, DMP Model CR123-FIRE or Panasonic Model CR123A.

 **Note:** When setting up a wireless system, it is recommended to program zones and connect the receiver before installing batteries in the transmitters.

1. Slide the battery compartment cover away from the detector to unsnap it and lift it off. See Figure 2.
2. If replacing the battery, remove the old battery and dispose of them properly.
3. Observing correct polarity, insert the new 3V lithium battery into the battery compartment and replace the cover. Use only new batteries when replacing old ones.
4. Reattach the detector to the mounting base. See *Attaching and Removing the Detector*.
5. Test the detector. See *Test the Detector Alarm*.

 **Caution:** Properly dispose of used batteries. Do not recharge, disassemble, heat above 212 ° F (100 ° C), or incinerate. Risk of fire, explosion, and burns.

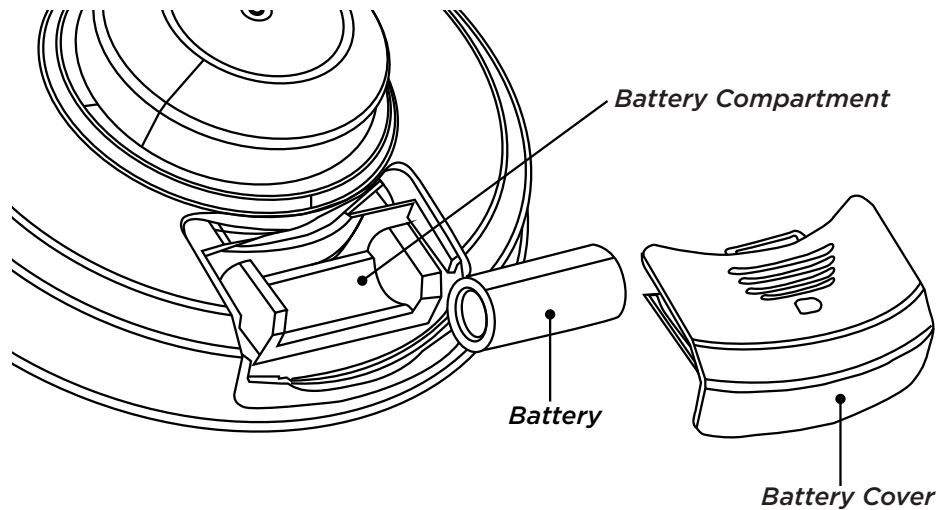


Figure 2: Battery Compartment

3 SELECT A LOCATION

Install the transmitter away from large metal objects because metal surfaces impairs performance. The 1183 Series transmitters allow one person to confirm communication with the receiver while the cover is removed

The 1183 Series Wireless Heat Detector provides a Survey LED capability to allow one person to confirm communication with the wireless receiver or panel while the cover is removed.

1. With the battery cover removed, hold the transmitter in the exact desired location.
2. Press the survey button to send data to the panel and determine if communication is confirmed or faulty.

✓ **Confirmed:** If communication is confirmed, for each press or release of the tamper switch, the LED blinks immediately on and immediately off. Repeat this test to confirm five separate consecutive LED blinks. Any indication otherwise means proper communication has not been established.

✗ **Faulty:** If communication is faulty, the LED remains on for about 8 seconds or flashes multiple times in quick succession. Relocate the detector or receiver until the LED confirms clear communication.

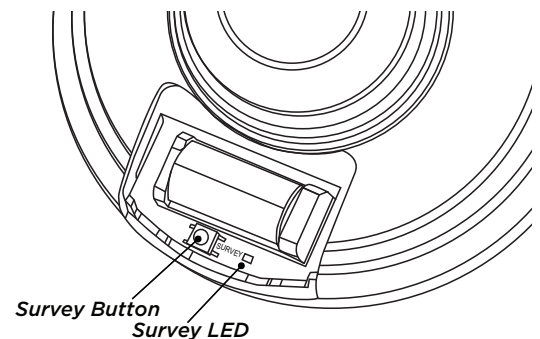


Figure 3: Survey Button

General Location Guidelines

In addition to NFPA 72, use the following location guidelines to optimize performance and reduce the chance of false alarms from the detector:

- Locate ceiling-mounted detectors in the center of a room or hallway at least 4 inches from any walls or partitions
- Locate wall-mounted heat detectors so the top of the detector is 4 to 12 inches below the ceiling
- Mount the detector on a firm permanent surface
- Locate the detector in environmentally controlled areas where the temperature does not exceed 100 ° F (37.8 ° C).
- In rooms with sloped, peaked, or gabled ceilings, locate detectors 3 feet (.9 meters) down or away from the highest point of the ceiling
- When mounting to suspended ceiling tile, the tile must be secured with the appropriate fastener to prevent tile removal

4 MOUNT THE DETECTOR


When setting up a wireless system, it is recommended to program zones and connect the wireless receiver before installing batteries in the transmitters.

Install the Mounting Base

Using the two screws provided, mount the base in the location previously surveyed for proper communication.

Attach the Detector

1. Using the alignment notch on the lip of the mounting base as a guide, align the detector with the alignment tabs.
2. Insert the detector into the mounting base and turn clockwise approximately 15 degrees. It should snap firmly into place.

 **Note:** To remove the detector from the mounting base, grasp the detector and turn it counterclockwise approximately 15 degrees. The detector should snap off of the mounting base. See Figure 4.

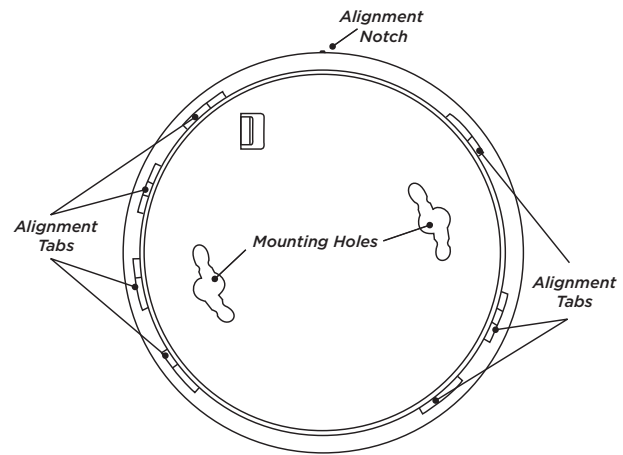



Figure 4: Mounting Base

5 TEST THE DETECTOR ALARM

WARNING: 1183 Series Heat Detectors are single use detectors for the fixed rate feature. Do not test the 1183 with a heat source. The rate-of-rise is resettable, but the fixed rate is not.

1. To test the detector alarm, enable Walk Test operation on the control panel. If the system is monitored, the system sends a System Test Begin report (System message S66) to the central station.
To conduct the Walk Test, reset the control panel. From the keypad, enter the code 8144. The keypad displays **WALK TEST**. Refer to the panel programming guide for complete information on Walk Test operation.
2. For the XTL Series and XT30/XT50 Control Panels, select **STD** (Standard Walk Test). For the XR Series, XF6 Series Fire, and XT75 Control Panels, select **FI** (Fire zones). A sensor reset occurs after each detector tested.
3. Remove the heat detector from the mounting base. See *Attaching and Removing the Detector*. Carefully short the two terminals (screw heads) momentarily to send an alarm signal to the control panel. Verify that the walk test trip counter increments to indicate a successful test. Once testing is completed, install the detector back onto the mounting base. Shorting the terminals does not affect the standard operation of the detector.
4. Select **END** to stop the Walk Test. When the Walk Test ends or a 20-minute time-out expires, a final Sensor Reset occurs. The System Test End message (System message S67) is sent to the central station along with verify and fail messages for each zone under test. Faulted zones then display on the keypad.

 **Note:** The control panel alarm and all auxiliary functions should be verified for a complete test of the system. See the panel programming guide for additional information.

ADDITIONAL INFORMATION

Heat Collector Fin

The 1183 Series heat detectors use a heat collector fin (See Figure 5) to detect temperature changes. The fin is spring loaded and sensitive to handling. Do not set the detector on the collector fin or put pressure on the fin while handling as this could cause damage to the internal operation.

FCC INFORMATION

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.

The antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm (7.874 in) from all persons. It must not be located or operated in conjunction with any other antenna or transmitter.

Changes or modifications made by the user and not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

INDUSTRY CANADA INFORMATION

This device complies with Industry Canada Licence-exempt RSS standards. 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.

This system has been evaluated for RF Exposure per RSS-102 and is in compliance with the limits specified by Health Canada Safety Code 6. The system must be installed at a minimum separation distance from the antenna to a general bystander of 7.87 inches (20 cm) to maintain compliance with the General Population limits.

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.*

L'exposition aux radiofréquences de ce système a été évaluée selon la norme RSS-102 et est jugée conforme aux limites établies par le Code de sécurité 6 de Santé Canada. Le système doit être installé à une distance minimale de 7.87 pouces (20 cm) séparant l'antenne d'une personne présente en conformité avec les limites permises d'exposition du grand public.

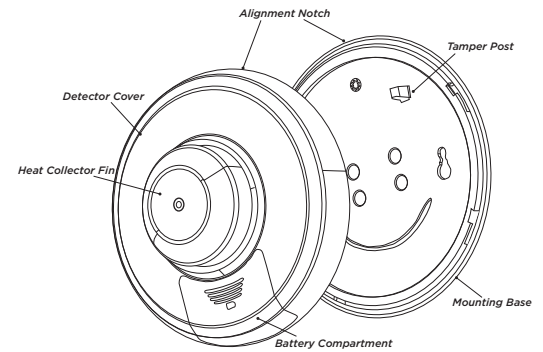
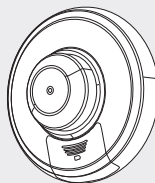


Figure 5: Heat Detector Exploded View

1183 SERIES WIRELESS HEAT DETECTOR

Specifications

Frequency Range	905 - 924 MHz
Battery Life	2 years
Dimensions	5.8" x 2.2" (14.3 cm x 6.1 cm)
Rate-of-Rise	15 ° F/min > 105 ° F 8.3 ° C/min > 40.6 ° C
Fixed	135 ° F ± 5 ° F (57.2 ° C ± 2.8 ° C)
Spacing between detectors	
Smooth Ceiling	
1183-135F	40 ft (12.2 m)
1183-135R	70 ft (21.3 m)
Wall or Partition	
1183-135F	20 ft (6.1 m)
1183-135R	35 ft (10.7 m)



Patents

U.S. Patent No. 7,239,236

Certifications

California State Fire Marshal (CSFM)
FCC Part 15 Registration ID: CCKPC0134
New York City Fire Department (#6167)
Industry Canada Registration ID: 5251A-PC0134
Underwriters Laboratory (UL) Listed
ANSI/UL 521 Heat Detectors for Fire Protective Signaling Systems

Compatibility

XTL Series Control Panels
XT Series Control Panels
XR Series Control Panels
1100 Series Wireless Receivers



Designed, engineered, and
manufactured in Springfield, MO
using U.S. and global components.
LT-1186 1.03 24401

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