

# Heat Detector

FW2521



## Overview

The Series 2 FW2521 Heat Detector is an intelligent device that communicate status with a compatible control panel and occupies one address on the Signaling Line Circuit (SLC). It is a UL listed device according to UL 268 and ULC-S529 for Fire Protective Signaling Systems for indoor use.

The detector features a sleek and compact design that offers both visual appeal and exceptional reliability. It is made of high-impact plastic.

The detector features an integrated Microcontroller Unit (MCU), it conducts comprehensive self-diagnostics and analyzes results for consistent performance.

## Features

- Attractive compact design
- Durable material and solid parts
- Visible status LED indicators
- Fixed-temperature/rate-of-rise fire detector.
- Easy installation
- Listed for Ceiling mount installation
- Mounts to standard electrical boxes
- For dry indoor installation
- Wide range of detector bases
- Up to 252 addressable devices per loop
- Address programmed via handheld programmer

## Compatibility

- The FW2521 detector is only compatible with Maple Armor Series 2 FW2105 and FW2107 Fire Alarm Control Panels.

Note: refer to each panel data sheet for more information.

## Operation

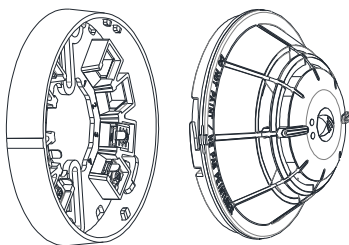
The FW2521 detector is equipped with an advanced Microcontroller Unit (MCU) that performs comprehensive self-diagnostic tests and analyzes results to ensure optimal functionality and quick response making it a versatile solution for effective fire detection. It can be configured to operate in fixed-temperature and/or rate-of-rise alarm modes.

### Diagnostic LED

The detector features dual status LED indicators for alarm and trouble, which provide 360° visibility. The LED flashes in normal condition and turns steady on in alarm conditions.

## Installation

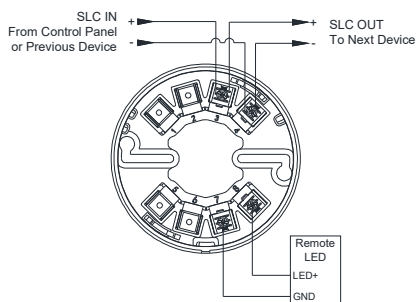
The FW2521 smoke detector could mount to a standard North American 1-gang boxes, 3-1/2 inch or 4-inch octagon boxes, via compatible detector bases.



**Note:** See detector base installation and wiring instructions for more information.

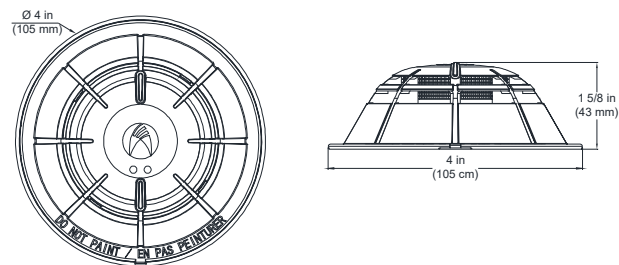
## Wiring

Field wiring is to be completed using the screw terminals on the compatible detector base. Acceptable wire size 18 to 12 AWG (0.82 mm<sup>2</sup> to 3.31 mm<sup>2</sup>).



This device requires electrical power to operate. Since fires often cause power interruptions, we recommend consulting your local fire protection specialist for additional safeguards.

## Dimensions



## Accessories

**Detector Bases** come in wide variety for different applications, the bases mount to a standard North American 1-gang boxes, 3-1/2 inch or 4-inch octagon boxes.

- FW2501 - 4-inch Standard Detector Base
- FW2502 - 6-inch Standard Detector Base with Flange
- FW2509 - Sounder Base for Detectors



**Remote LED Indicator FW2561-RI** connects to the detector bases, it features a red alarm LED and a white finish plate that mounts to a standard North American 1-gang box. Supported by all detector bases.

## Testing & Maintenance

Notify the authorities that the system will be temporarily out of service before testing. Disable the system to prevent unwanted alarms. Ensure the indicator LED is flashing; if not, check the wiring and remount the device. Activate a fire alarm signal and verify the LED turns steady.

## Specifications

Nominal Voltage	24 VDC
Operating Voltage	15.3 to 28VDC
Standby Current	0.19 mA
Active Current	0.44 mA
Operation Mode	Fixed Temperature & Rate-of-Rise
Fixed Temperature Rating	135°F (57.2°C)
Rate-of-Rise Detection	15°F/min
Operating Temperature	0° C to 49° C (32° F to 120° F)
Operating Humidity	0 to 93% RH Non-condensing
Installation Environment	Dry indoor use only
Mounting	Ceiling
Housing Material	High impact plastic
Dimension	4 in. Diameter, 1 5/8 in Height 105 mm Diameter, 43 mm Height
Mounting	Ceiling
Compatible Bases	FW2501, FW2502, FW2509
Compatible FACP	FW2105, FW2107
Regulatory Compliance	UL/ULC, FCC

## Ordering Information

Model	Description	Ship Wt. Kg (lbs)
FW2521	Addressable Heat Detector	0.135 (0.30)
<b>Accessories</b>		
FW2501	4-inch Standard Detector Base	0.055 (0.12)
FW2502	6-inch Standard Detector Base with Flange	0.082 (0.18)
FW2509	Sounder Base for Detectors	-
FW2561-RI	Remote LED Indicator	-

*\*Detector bases and accessories are ordered separately.*



This document is for marketing and informational purposes only. It is not intended to be used for installation, operation, or maintenance of the device.

### Contact us

Phone: 888-257-7718  
Email: [sales@maplearmor.com](mailto:sales@maplearmor.com)  
Website: [www.maplearmor.com](http://www.maplearmor.com)  
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### Visit us

8866 Bd du Quartier,  
Brossard, QC J4Y 0B4

For complete and accurate installation instructions, wiring details, and operational guidelines, refer to the official Device Installation Sheet provided with the product. The manufacturer reserves the right to make changes to product specifications without prior notice.