

2100RFADT Photoelectronic Smoke Detector with Built-in Wireless Transmitter



Models Available

2100RFADT



Product Overview

- Alarm, tamper, and maintenance signals
- Pre-alarm maintenance signal
- Pre-low, low battery indication
- Sounder features built-in temporal tone
- 6-Volt battery operated
- Utilizes 2 long-life 3V lithium batteries
- Self-diagnostics
- Maintains low-profile aesthetics
- Smoothing algorithms
- Drift compensation
- Low temperature trouble signal

The 2100RFADT is a 6-volt battery operated, low-profile, photoelectric smoke detector with a fixed 135°F thermal sensor. The detector has a built-in wireless transmitter, temporal code 3 sounder, and can be used in commercial and residential applications. The 2100RFADT can be used with the 5881 series (L, M, H) for residential and 5881EH receivers for commercial installations.

Detector logic and communication protocol will be implemented in software under control of a single microprocessor. The microprocessor provides smoothing and drift compensation features. Once the detector reaches its limit of compensation, it transmits a maintenance signal to the panel. In maintenance condition, the LED extinguishes, meeting the sensitivity test requirement specified in NFPA 72. In an alarm condition, the 2100RFADT sounds its sounder, a message is sent to the wireless control panel, and the smoke detector's ID number is displayed at the console. Additional features include pre-low battery, low battery, and low temperature signals.



Features

- Built-in wireless transmitter
- Product provided with batteries
- Used with 5881 series (L, M, H) receivers for residential applications
 - Encrypted wireless receivers
 - 5881ENL supports up to 8 zones
 - 5881ENM supports up to 16 zones
 - 5881ENH supports up to 64 zones depending on control panel
 - 5881ENHC supports unlimited amount of zones, depending on control panel
- Message sent to the wireless control panel and smoke detector's ID number is displayed at the console
- Contains ADEMCO's communication protocol
- 6 VDC
- Microcontroller runs on an 8.0 MHz clock
- Horn operates at 3.3 KHz with sound pressure level of 85dBA at 10 feet
- Panels
 - Residential
 - LYNX
 - VISTA-10SE
 - VISTA 15, 15P
 - VISTA-20SE, 20P
 - VISTA 30
 - Commercial
 - VISTA-32FB
 - VISTA-40
 - VISTA-50P, 50PUL
 - VISTA-100, 100-24
 - VISTA-128B
 - VISTA-128FB, 128FB-24

Specifications

Operating Voltage

4.8–6.6 VDC

Standby Current

On adapter bracket: 14.5 µA avg.
Off adapter bracket: 2.5 mA max.

Weight

6.6 ounces (without batteries)

Alarm Current

On adapter bracket: 54.8mA max.
Off adapter bracket: 56.7mA

Dimensions

Diameter: 5.5"* , Height: 2.05"

Power Source

Two 3-volt CR123A Lithium Batteries†

Audible Output

85dB min. @ 10 ft.

Humidity Range

5% to 95% RH, non-condensing

Fixed Temperature Heat Sensor

135°F Fixed

Operating Temperature

32–100°F (0–37.8°C)

Air Velocity

4,000 ft./min. max.

Agency Listings

UL268 – Commercial and Residential

* with adapter bracket (5.0" without adapter bracket)

† Replacement batteries include Duracell DL123A, Sanyo CR123A, Panasonic CR123A, or ADEMCO 466

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