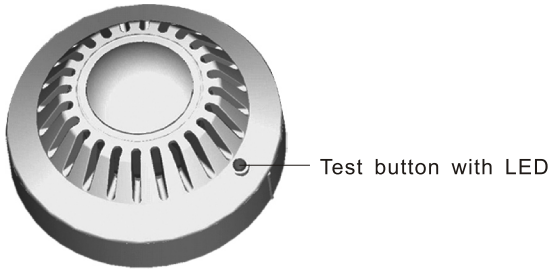


# Wireless MD-2100R Optical Smoke Detector



The MD-2100R detects smoke and wirelessly transmits a signal to a receiver (control panel). It also has a built in buzzer to warn people in the immediate vicinity. For testing purposes the detector is equipped with a testing button. The detector makes regular auto testing and reports its condition to the system regularly for full supervision. The LED indicator can be turned on/off upon your requirement.

## Specifications

power 6 V DC

battery life time about 2 year

working environment indoor use , -5 to +50°C humidity 10%-90%

battery low voltage indication: sound once in each 2 hours

self test indication: red LED turn on then buzzer sound 2 times

alarm output indication: red LED turn on 5 seconds then buzzer sound

working frequency :433MHz/868MHz(optional)

working range max. 100 m (open area)

radiation of sensor max. 4 kBq

Working voltage:6V lithium battery (CR123A 2PCS)

built in siren 95dB/1m

LED jumper: short circuit ON, open circuit OFF

Current: static :20-40uA, alarm:20mA (433MHz)

static :20-40uA, alarm≤50mA (868MHz)

## Installation

The detector should be installed on the proper place, with the distance from walls 0.6 m as a minimum. The detector should not be installed in a place with poor air circulation. If you install the MD-2100R in a large space, install at least two detectors. A detector can cover an area of about 50 m<sup>3</sup> of free space (no partitions). The detector should not be installed close to any fan, heating/cooling vent, fluorescent lamp or air ionizer. The MD-2100R is not suitable for places with a high concentration of paint solvents or car exhausts (fumes). While deciding where to install the detector, keep in consideration that detector's batteries have to be replaced from time to time (approximately once 2 year).

**Note:** the detector can also be triggered by heavy cigarette smoke or fumes from cooking.

Open the cover of the detector (press it from both sides up to the lines on the housing. see the picture)

Attach the rear panel with the two provided screws to the desired location. Tighten the screws firmly, being sure that the panel is not crooked.

Study the installation manual of the receiver unit (control panel) to learn how to enter the enrolling mode to enroll the detector.

Connect batteries in the detector (removing the plastic tape).

The MD-2100R will transmit an enrollment signal and its buzzer will make a sound. From this moment the detector is ready to work. Now the LED will flash once in each minute.

Attach the detector's front cover to the rear panel so that both tabs click. Check that the detector is fixed firmly.

Press and hold the testing button, the red LED will turn on and the buzzer will sound twice. Also we can use the smoke to test it. When smoke is detected, the detector will start an alarm (buzzer & reply). After the smoke concentration drops, the detector will go to stand by mode again.

## Enroll to receiver(control panel) and test

To enroll the detector to the receiver(control panel). Press and hold the test button according to the prompt message or indication from the control panel. Conduct the test process, the detector will make an alarm sound and send a signal to the receiver(control panel) to trigger it.

## Battery testing and replacement

The detector checks the condition of its batteries automatically. If it is necessary to replace batteries, the detector give a low voltage indication buzzer sound once in each 2 hours. After installation of new batteries the detector's buzzer will make a sound to confirm that it is ready again.

**Note:** We recommend removing dust from the detector every 6 months. Use a dry cloth or blow on it gently. Do not open the optical chamber.