

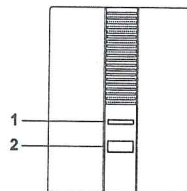
# Carbon Monoxide Detector (CO-8F1)

V:EN

## ● **Parts Identification**

### 1. **Dual Color LED (Amber & Red)**

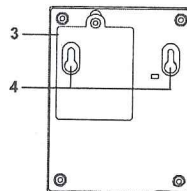
- ✓ When the battery voltage is low, the Amber LED will flash every 30 sec.
- ✓ While the Carbon Monoxide Detector is transmitting signal, the RED LED will flash
- ✓ While Carbon Monoxide is alarming, the Red LED will flash quickly.



### 2. **Learn/Test Button**

Press the button to:

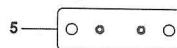
- ✓ Transmit a learn/test signal for device learning or radio range test.
- ✓ To silence alarm temporarily after alarm activation.



### 3. **Battery Compartment Cover**

### 4. **Mounting Holes**

### 5. **Mounting Bracket**



## ● **Battery**

- 3 "AA" 1.5V alkaline batteries are used to supply power.
- When Carbon Monoxide Detector detects low battery voltage, a low battery signal will be transmitted along with regular signal transmissions. The Amber LED will flash and the Carbon Monoxide Detector will emit a beep every 30 seconds.

## ● **Supervision**

- After installation, the Carbon Monoxide Detector will automatically transmit Supervisory Signals periodically to the Control Panel at intervals of 15 min. to 18 min. randomly.
- If the Control Panel has not received the signal from the Carbon Monoxide Detector for a preset period of time, the Control Panel will determine the Carbon Monoxide Detector has failed supervision and is out-of-order.

## ● **Operation**

- The alarm will be activated after CO concentration is detected according to time length in following table:

CO concentration level	Time taken before alarming
30 ppm	N/A
50 ppm	60~90 minutes
100 ppm	10~40 minutes
300 ppm	Under 3 minutes

- Once the alarm is activated, the Carbon Monoxide Detector will transmit alarm signal and activates its buzzer to raise alarm. The Red LED will begin to flash rapidly.
- After alarm activation, the Carbon Monoxide Detector will continue to sound alarm and resend alarm signal every minute until the CO concentration drops below 30 ppm. When the concentration drops below 30 ppm, the carbon Monoxide Detector will stop sounding alarm and transmit a restore signal.

#### ● **Alarm Silence**

- When the alarm is sounding, pressing the Test button will put the Carbon Monoxide Detector into Alarm Silence mode for 10 minutes and the alarm will be stopped temporarily.
- After this 10-min period is over, the Carbon Monoxide Detector will check the Carbon Monoxide concentration again. If the Carbon Monoxide concentration is still over the set threshold value, the Carbon Monoxide Detector will sound the warning alarm again. If not, it returns to normal operation mode and transmit restore signal.

#### ● **Learning**

- Step 1 Insert the 3 "AA" batteries into the battery compartment according to correct polarity shown on the battery holder.
- Step 2 When the batteries are inserted, the Carbon Monoxide Detector will sound 2 short beeps, and the Red LED will flash once.
- Step 3 Put the Control Panel into **Learning** mode, refer to Control Panel manual for detail.
- Step 4 Press the Learn/Test Button on the Carbon Monoxide Detector to transmit signal to the Control Panel for learn-in process. The Red LED will flash once with a beep.
- Step 5 Refer to the operation manual to finish learning process.

#### ● **Installation Guideline**

It is recommended to install the Carbon Monoxide Detector in following locations.

- Install the Carbon Monoxide Detector in your bedrooms to protect your safety.
- For houses with garage, also mount near the internal door to garage and the room above the garage for protection in case when car engine is not turned off.

Avoid mounting in following locations.

- Inside kitchen and garage – to avoid false alarm when
- Corner or location with stagnant air – to avoid false alarm
- Fireplace – Keep at least 4.5 meters of distance to avoid false alarm.

#### ● **Installation**

A mounting bracket is provide in the package for mounting the Carbon Monoxide Detector on the wall.

- Step 1. Refer to Control Panel manual and put the Control Panel into **Walk Test** mode.
- Step 2. Put the Carbon Monoxide Detector at desired installation location, press the Learn/Test button to transmit signal to panel.
- Step 3. If the panel receives signal, it will display the device signal strength. Check and make sure the panel can receive signal normally from device at current location. If signal reception is unsatisfactory, relocate the Carbon Monoxide Detector and repeat Step 1~3 until an ideal installation location is found.
- Step 4. Use the mounting bracket as template to mark the two holes on the wall at chosen location for installing screws.
- Step 5. Screw the mounting bracket onto the wall according to marked location. Install wall plugs if necessary.
- Step 6. Hook the Carbon Monoxide Detector onto the mounting bracket. Installation is now complete.

#### ● **Compliance with Standards**

Complies with the requirements of the Radio Equipment Directive 2014/53/EU

Electromagnetic Compatibility Directive 2014/30/EU, Low Voltage Directive 2014/35/EU

Safety: EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013

EMC: EN 50130-4:2011+A1:2014  
EN 301489-1:V2.2.0:2017  
EN 301489-3:V2.1.1:2017

Radio: EN 300220-1:V3.1.1:2017  
EN 300220-2:V3.1.1:2017