

Carbon Monoxide Detector (HA2000CO)

● LED

- ✓ When the battery voltage is low, the AMBER LED will flash every 30 sec.
- ✓ While the Carbon Monoxide Detector is transmitting the signal, the RED LED will perform a long flash with “Ding Dong” melody.
- ✓ While the batteries are inserted and the Carbon Monoxide Detector is in warming period, the GREEN LED will flashes once every seconds for 2 ~ 10 minutes.
- ✓ While the sensor is taking CO concentration reading from the air, the GREEN LED will flashes once every 30 seconds.



● Installation Procedures

- Step 1 Insert the 3 “AA” batteries into the battery compartment taking care that the connection respects correct polarity showing on the battery holder.
- Step 2 While the 3 batteries are inserted; the HA2000CO will sound a “Ding-Dong” melody and the GREEN LED stays on.
- Step 3 The warming up process takes between 2~10 minutes. The GREEN LED flashes every second indicates that the warming up process is taking place. After the warming up period is complete, the GREEN LED then flashes once every 30 seconds.

<NOTE>

- ☞ While it is under the warming up period, if the Test Button has been pressed, it will send a test code to the Control Panel and the RED LED will perform a long flash and “Ding Dong” melody. After the transmitting process finishes, the GREEN comes back on.
- ☞ If the Test Button has been pressed during the Stand-by mode, then the HA2000CO will be transmitting a Test signal to report to the Control Panel. This is performed by a long flash of RED LED and “Ding Dong” melody.

- Step 4 Put the Control Panel into “**Device +/-**” menu and then select “**Add Device**” menu.
- Step 5 Press the CO detector’s test button on the front cover.
- Step 6 Refer to the operation manual of your control panel under the section of “**Device +/-**” to complete the learn-in process.
- Step 7 After the detector is learnt-in, put the Control Panel into “**Walk Test**” mode, hold the CO detector in the desired location, and press the Test button to confirm this location is within signal range of the Control Panel.
- Step 8 When you are satisfied that the CO detector work in the chosen location, you can proceed with installation.
- ✓ While the HA2000CO is alarming, with the press of the Test Button will result to ‘cancel’ the alarm signal and terminate the reporting process. This is performed by a long flash of RED LED and “Ding Dong” melody.

- ✓ The alarm will be activated by:

<NOTE>

- ☞ When the CO sensor detected any unusual CO concentration in the air that

CO concentration level	Time taken before alarming
30 ppm	120 minutes
50 ppm	50 minutes
100 ppm	10 minutes
300 ppm	2 minutes
500 ppm	30 seconds

matches with the above table, it will notify the control panel and trigger the alarm.

● **While alarming**

- ✓ **LED:** The RED LED will perform continuous fast flashes
- ✓ **BEEP:** The buzzer will sound continuous short beeping
- ✓ **Signal:** The alarm signal will be send out every 10 minutes to inform the control panel.

<NOTE>

- ☞ While the HA2000CO is alarming, with the press of the Test Button will result to 'cancel' the alarm signal and terminate the reporting process. This is performed by a long flash of RED LED and "Ding Dong" melody.
- ☞ If the CO concentration in the Air is less than 30 ppm, then the CO detector will automatically cancels the alarm warning signal and re-start the detection again.

● **Specifications:**

Common Technical Specification:

- Radio frequency: 868.6375MHz +-2.5ppm
- Modulation/ Demodulation: Narrow band FM @ 15KHz bandwidth with VCTCXO (Temperature compensated Crystal)
- Sensitivity: >105dbm @S/N +20db
- Transmission power: E.I.R.P. -8dbm +-3db
- Operation range: 300 meters in open space
- Code combinations: 16 777 216 codes
- Temperature range:-20°C +45°C
- Humidity: up to 90%

Carbon Monoxide Detector HA2000CO

- Sensitivity: following EN50291
- Detection Mode : electrochemical cell CO
- Self diagnostic
- Test button
- Supervision: Random signals 30 min to 50 min
- Weak battery detection
- 3 color LED : normal, alarm, default.
- Integrated siren
- Power: alkaline battery 3 x AA
- Battery life: over 2 years
- Detection cell life : 5 years
- Detection range: 0 ~ 999 PPM
- Alarm Concentration: 30 ~ 999 PPM

● **Guaranty**

This product is guarantee 4 years except the batteries. The first year is by standard exchange. The 3 years left, the guarantee is for parts and labours.

Please contact, the technical line, following your country, to confirm the default and the guarantee process.

France:

Eden: 0825 560 650
Web site: www.eden.fr



Holland:

Elro: 0900 208 8888
Web site: www.elro-nl.com



Belgium:

Dutch speaking

Elro: 070 2330031
French Speaking



Eden: 0033 825 560 650



Germany:

Elro: 0049 17755 24123



England:

Byron: 0845 230 1231
Website: www.chbyron.com

