

# CO<sub>2</sub> RESPONDER

## CARBON DIOXIDE LEAK DETECTOR

**BW**  
Technologies  
by Honeywell



Specially configured  
GasAlert Micro 5 IR

### Key Features

- Smaller and 50% lighter than competing instruments
- Water-resistant design in an integral concussion-proof enclosure
- Large LCD allows for easy-to-read monitoring
- Integral motorized pump for remote sampling and fast response
- AA battery powered for easy replacement (rechargeables available)
- 95 dB alarm tone, bright LED alarm bars, & internal vibrating alarm
- Auto backlight activates in low light & when in alarm
- Four alarm levels: instantaneous Low Alarm, High Alarm, TWA, and STEL
- Records TWA, STEL, and max gas exposures (displays readings on command)
- Datalogger with programmable sampling intervals
- Full self-test of sensor, battery, circuit integrity, and audible/visual alarms

Industrial strength CO<sub>2</sub> detection from 0 to 50,000 ppm.  
Infrared. Lightweight. Reliable.

The CO<sub>2</sub> Responder utilizes infrared sensor technology for accurate and reliable performance. The highly selective infrared sensor guarantees only CO<sub>2</sub> gas is detected with no chance of false readings from interference gases.

The compact and lightweight CO<sub>2</sub> Responder comes loaded with features. Auto-backlit LCD, four alarm levels and max exposure levels to name a few. The display is user configurable to display CO<sub>2</sub> readings in either PPM or %.

With the motorized integral sampling pump, response times are extremely fast. The CO<sub>2</sub> Responder can be a useful tool for indoor air quality monitoring and CO<sub>2</sub> leak detection for quickly determining dangerous levels of CO<sub>2</sub>.

### Applications

- Food Processing
- Wineries
- Breweries
- Bottling Plants
- Greenhouses
- Indoor Air Quality
- Industrial Hygiene
- Refrigeration Systems
- Produce Storage

### Accessories Included

- Integral Motorized Pump
- Sampling Wand
- Sampling Tube
- AA Alkaline Battery Pack
- Hand Carrying Case
- User Manual

**CTI**  
**CALIBRATION  
TECHNOLOGIES INC.**  
GAS DETECTION SPECIALISTS

Equipped with one of the largest LCD's on the market, the **CO2 Responder** is still smaller and lighter than competitors' models.

The **CO2 Responder** comes equipped with an integral motorized pump. Audible, visual, and vibrator alarms activate in the event of a low, high, TWA, or STEL alarm condition. Other standard features include automatic calibration, full function self-test, user selectable confidence beep, stealth mode, backlight options, selectable ppm resolution, STEL / TWA measurement choice, user-settable calibration gas concentrations, and multi-language support.

## Ordering Information

The **CO2 Responder** is delivered ready for use with IR (infrared) sensors, integral motorized pump, AA alkaline battery set, spare AA battery set, sampling wand and hose (3 ft), stainless steel alligator belt clip, instructions, and a rugged hard-shell carrying case.

**Order #:** [CO2 Responder](#)  
[M5-RBC](#) (rechargeable battery and charging cradle)  
[BW-M5-CO2-RS](#) (replacement IR sensor)

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## SPECIFICATIONS

Due to ongoing research and product improvement, specifications are subject to change

### Battery:

8 hours runtime on three AA alkaline cells (runtime dependent on backlight usage)

### Pump:

Integral motorized rotary pump. Tubing length up to 100 ft. / 30 m (50 ft. / 15 m standard) with user options

### Sensors:

Plug-in, IR (infrared) Carbon Dioxide

### Range:

(0-5% (0-50,000 ppm))

### Calibration Due Date:

Days remaining until next calibration displayed on start-up

### LCD:

Continuous, alphanumeric gas readout and status display advises

### Tests:

Full function self-test, sensor integrity, circuitry, battery, and audible/visual alarms on activation

### Alarm Indicators:

Clearly advises alarm conditions with audible, visual, and internal vibrator alarms

**Visual alarms:** Two flashing alarm bars visible from all angles. LCD indicates gas present and alarm levels encountered

**Audible alarm:** Typically 95 dB at 1 ft. / 30 cm variable pulsed audible alarm

**Vibrator alarm:** Pulses warning in gas alarm conditions, or for any status alarms

**Status alarms:** Low battery, over range, multiple gas, pump, and failed or missing sensor

### Alarm Levels:

Instantaneous Low Alarm; Instantaneous High Alarm; TWA (time-weighted average), and STEL (short-term exposure limit)

**Alarm setpoints:** Displayed on activation and on demand

### Calibration Schedule:

6-month intervals

### Enclosure:

Rugged, composite material; two-shot molded polymer case with integral anti-shock boot. Highly water resistant and dust proof

**Humidity:** 0 - 95% RH (non-condensing)

**Dimensions:** 5.7 x 2.9 x 1.5 in

**Weight:** 13.1 oz

### Gas concentration:

Simultaneously and continuously displays gas concentration(s) for all sensors (in ppm or % LEL). Peak (max)/STEL/TWA ppm or %: Records exposures and displays on demand

### User field options:

Confidence beep, set STEL period, force calibration on start-up, enable / disable sensor, pass code protection, latching alarms, span level, passed calibration user-lockout option, "SAFE" display function, stealth mode, fast pump, alarm only backlight mode, LCD language option, STEL calculation choice, TWA calculation choice, PID / combustible correction factor options, and user-settable calibration gas level

### Warranty:

1 year (including sensors)