BW Technologies BWC2-M

BW Technologies BW Clip Single Gas CO Monitor User Manual

MODEL: BWC2-M

1. Product Overview

The BW Technologies BW Clip Single Gas CO Monitor (Model BWC2-M) is a maintenance-free, personal safety device designed for continuous monitoring of carbon monoxide (CO) levels in industrial environments. This device provides reliable gas detection without the need for sensor or battery changes throughout its operational life.

Key features include:

- Hibernation mode for extended battery life with an optional case accessory or IntelliDoX.
- Automatic logging of the 35 most recent gas events and bump test results.
- Configurable high and low alarm set points.
- Compatibility with IntelliDoX, MicroDock II, and Fleet Manager II software for data management.

Figure 1: Front view of the BW Clip Single Gas CO Monitor, displaying '24' ppm CO and remaining months of operation.

2. Setup

The BW Clip CO Monitor is designed for immediate use upon activation. No initial calibration or complex setup procedures are typically required.

2.1 Activation

The device is activated upon its first use. Follow the instructions provided on the device's display or accompanying quick start guide for the initial activation sequence. Once activated, the device will begin its continuous monitoring function.

2.2 Wearing the Device

The monitor is equipped with a durable clip for secure attachment. Attach the device to your clothing, belt, or hard hat in a location that ensures the sensor opening is not obstructed and allows for clear visibility of the display and audibility of alarms.

GA24XT-X
GASALERTCLIP EXTREME
BW
Made in Mexico
ONLY AS TO INTRINSIC SAFETY FOR USE IN:
DEMKO 08 ATEX 0814213
CL.I, GR. A,B,C,D T4 OR
CL.I ZN 0, GR.IIC T4
HAZ. LOCS. 3.6VDC
CLASSIFIED
C UL US
39X7 Exia
-20 °C ≤ TA ≤ +50°C
CE0539 Ex II IG
Ex ia IIC T4 Ga IP66/67
IECEx UL 08.0018
Ex ia IIC T4 Ga
understand manual before operating

Figure 2: Back view of the BW Clip Monitor, highlighting the robust metal clip for attachment.

Figure 3: The BW Clip Monitor securely attached to a uniform, demonstrating proper wearing position.

3. Operating Instructions

The BW Clip monitor operates continuously once activated, providing real-time gas concentration readings and alarm indications.

3.1 Continuous Monitoring

The LCD continuously displays the current CO concentration in parts per million (ppm). It also shows the remaining operational life of the device, typically indicated in months (MM).

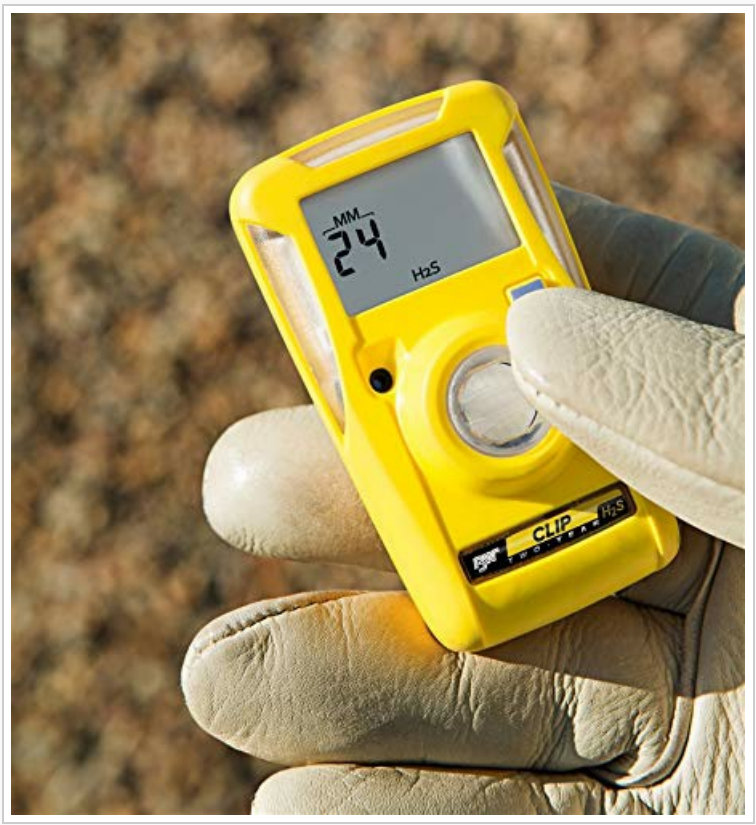

Figure 4: A BW Clip monitor held in a gloved hand, showing a '0' ppm reading for H2S (similar display for CO).

3.2 Alarm Indications

The device is equipped with multiple alarm types to alert users to hazardous gas levels:

- **Visual Alarm:** Flashing LED lights.
- **Audible Alarm:** A loud, distinct sound (typically 95 dB).
- **Vibratory Alarm:** The device vibrates to provide tactile warning.

Alarms are triggered when CO concentrations exceed the pre-set low or high alarm thresholds. In an alarm condition, immediately move to a fresh air environment. The alarm will cease once the gas concentration drops below the alarm set points.

3.3 Bump Testing

Regular bump tests are recommended to verify the functionality of the sensor and alarms. A bump test involves briefly exposing the monitor to a known concentration of target gas that is above the alarm set points. Consult your organization's safety protocols and local regulations for recommended bump test frequency.

3.4 Event Logging

The BW Clip automatically stores data for the 35 most recent gas events and bump test results. This logged data can be downloaded and analyzed using compatible instrument management systems such as IntelliDoX or Fleet Manager II software.

4. Maintenance

The BW Clip is designed as a maintenance-free device, simplifying its use and reducing operational overhead.

4.1 General Care

Keep the device clean by wiping it with a damp cloth. Ensure the sensor opening is free from dust, debris, or any obstructions that could impede gas detection.

4.2 Battery and Sensor

The BW Clip features a sealed battery and sensor that are designed to last for the entire specified operational life of the device. These components are not user-replaceable, and no routine battery charging or sensor replacement is required.

4.3 Hibernation Mode

For the two-year version of the CO monitor, a hibernation mode is available. This mode allows the device to be temporarily powered down to conserve battery life when not in use for extended periods (e.g., a week or more). Hibernation can be activated using a specific case accessory or through the IntelliDoX system. Refer to the IntelliDoX manual for detailed instructions on using hibernation mode.

5. Troubleshooting

This section addresses common issues you might encounter with your BW Clip monitor.

5.1 'FAIL' Message on Display

If the device displays a 'FAIL' message, it indicates an internal error or sensor malfunction. The device should be immediately removed from service and replaced. Do not attempt to repair the device.

5.2 No Display or Unresponsive Device

Ensure the device has been properly activated. If the device has reached the end of its operational lifespan, it will cease to function and display 'END'. In this case, the device requires replacement.

5.3 Persistent Alarms or False Alarms

If the device alarms continuously or appears to be giving false alarms, move to a known fresh air environment. Ensure the sensor is not exposed to interfering gases, extreme temperatures, or humidity levels outside its specified operating range. If the alarm persists in fresh air, the device may be malfunctioning and should be removed from service.

6. Specifications

Detailed technical specifications for the BW Technologies BW Clip Single Gas CO Monitor (BWC2-M).

BW Clip Series Specifications

BW CLIP SERIES SPECIFICATIONS	
SIZE	1.6 x 2.0 x 3.4 in. / 4.1 x 5.0 x 8.7 cm
WEIGHT	3.2 oz / 92 g
TEMPERATURE	H_2S: -40 to +122°F / -40 to +50°C CO: -22 to +122°F / -30 to +50°C O_2: -4 to +122°F / -20 to +50°C SO_2: -22 to +122°F / -30 to +50°C
HUMIDITY	5% - 95% RH (non-condensing)
ALARMS	Visual, vibrating, audible (95 dB) • Low, High
TESTS	Activated detectors automatically perform one internal diagnostic test every 24 hours
TYPICAL BATTERY LIFE	Two years (H_2S, CO, O_2 or SO_2) or three years (H_2S or CO) depending on the version
EVENT LOGGING	35 most recent events
INGRESS PROTECTION	IP 66/67
CERTIFICATIONS AND APPROVALS	Class I, Div. 1, Gr. A, B, C, D Class I, Zone 0, Gr. IIC ATEX: II 1G Ex ia IIC T4 Ga IECEx: Ex ia IIC T4 Ga CE European Conformity American Bureau of Shipping EAC CU TR Ex (Customs Union)
WARRANTY	Two or three years from activation (given normal operation), plus one year shelf life (6 months for O_2). Up to three years for two-year H_2S and CO detectors when used with the hibernation feature, limited to 24 months of detector operation.

SENSOR SPECIFICATIONS

GAS	MEASURING RANGE	LOW ALARM LEVEL	HIGH ALARM LEVEL
2 OR 3 YEAR DETECTOR			
H_2S	0 - 100 ppm	10 ppm	15 ppm
CO	0 - 300 ppm	35 ppm	200 ppm
2 YEAR DETECTOR			
O_2	0 - 25.0 % by vol.	19.5 %	23.5 %
SO_2	0 - 100 ppm	5 ppm	10 ppm

ALARM SETPOINTS ARE USER ADJUSTABLE BEFORE AND AFTER ACTIVATING THE DETECTOR.
SET POINTS SHOWN ARE MOST COMMON DEFAULT VALUES. ADDITIONAL DEFAULT VALUES ARE AVAILABLE.

Easy gas identification with color coded labels and LCD indication:

- H_2S
- CO
- O_2
- SO_2

Optional Accessories

- Hibernation Case
- Hard Hat Clip
- IntelliDoX instrument management system

For a complete list of kits and accessories, please contact Honeywell.

Figure 5: Detailed specifications for the BW Clip Series, including the CO monitor.

Specification	Value
Model	BWC2-M
Gas Detected	Carbon Monoxide (CO)
Measuring Range (CO)	0-300 ppm
Low Alarm Level (CO)	35 ppm
High Alarm Level (CO)	200 ppm
Dimensions	5 x 3.3 x 2.3 inches (12.7 x 8.4 x 5.8 cm)
Weight	4.97 ounces (141 g)
Operating Temperature	-22°F to 122°F (-30°C to 50°C)
Humidity	5% - 95% RH (non-condensing)
Alarms	Visual, Vibrating, Audible (95 dB typical)
Ingress Protection	IP66/67
Battery Life	Two years (for CO version)
Event Logging	35 most recent gas events and bump test results
Certifications	Class I, Div. 1, Gr. A, B, C, D; ATEX; IECEx

7. Warranty and Support

7.1 Warranty Information

The BW Clip CO Monitor typically comes with a two-year warranty from the date of activation, assuming normal operation. Additionally, there is usually a one-year shelf life (or 6 months for O2 versions) before activation. For precise warranty terms and conditions, please refer to the official documentation included with your product or contact BW Technologies customer support directly.

7.2 Customer Support

For technical assistance, service, replacement, or inquiries regarding compatible accessories like IntelliDoX and Fleet Manager II software, please contact BW Technologies customer support or your authorized distributor. Contact information can typically be found on the manufacturer's official website or in the product packaging.

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Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question