

Honeywell BW Clip and BW Clip RT Single-Gas Detectors



A single-gas detector designed to operate for 2 or 3 years

The **Honeywell BW Clip** is a compact personal gas detector designed to continuously monitor a single gas in the user's immediate vicinity. Depending on the model selected, it detects hydrogen sulfide (H₂S), carbon monoxide (CO), oxygen (O₂), or sulfur dioxide (SO₂).

Once activated, the detector operates continuously for its entire service life. It requires **no battery recharging, battery replacement, or sensor replacement**. This design makes it easy to use on a daily basis, without having to manage charging cycles.

We offer the BW Clip and BW Clip RT in the following configurations:

Detected Gas	BW Clip 2-Year	BW Clip RT 2 years	BW Clip 3 years	BW Clip RT 3 years
Hydrogen sulfide H ₂ S	–Yes	Yes	Yes	Yes
Carbon monoxide CO	–Yes	Yes	Yes	Yes
Oxygen – O ₂	Yes	Yes	No	No
Sulfur dioxide – SO ₂	Yes	Yes	No	No

Each detector is a single-gas detector: the gas to be monitored and the service life must therefore be selected when choosing the model.

BW Clip or BW Clip RT: What's the difference?

Both versions are based on the same single-gas detection principle and feature an LCD screen. The main difference lies in the concentration display and calibration options.

Function	BW Clip	BW Clip RT
Continuous single-gas detection	Yes	Yes
Display of the monitored gas and remaining service life	Yes	Yes

Permanent display of measured concentration	No	Yes
Concentration display during alarm	Possible depending on configuration	Yes
Calibration	Standard operation without calibration for H ₂ S, CO, and SO ₂	Calibration possible
IntelliDoX compatibility	Yes	Yes

The **BW Clip** is therefore suitable for applications where the primary objective is to immediately alert the user when a threshold is exceeded. The **BW Clip RT** additionally provides a continuous reading of the measured concentration, which is useful when monitoring changes in gas levels is part of the operation's requirements.

H₂S, CO, O₂, or SO₂: four single-gas models

Gas	Measurement range	Battery Life	Operating temperature
Hydrogen sulfide – H ₂ S	0 to 100 ppm	2 or 3 years	-40 to +50 °C
Carbon monoxide – CO	0 to 300 ppm	2 or 3 years	-30 to +50 °C
Oxygen – O ₂	0 to 25% by volume	2 years	-20 to +50 °C
Sulfur dioxide – SO ₂	0 to 100 ppm	2 years	-30 to +50 °C

All four versions use **electrochemical sensors**. For oxygen, a zeroing procedure must be performed every 24 hours or when the corresponding prompt appears on the device.

Alarms and Automatic Checks for Daily Use

When an alarm threshold is reached, the BW Clip alerts the user with a combination of **audible, visual, and vibrating alarms**. The audible alarm reaches approximately 95 dB at 10 cm, and the wide-angle red LEDs facilitate visual identification of an alarm situation.

Once in operation, the detector automatically performs an **internal diagnostic test every 24 hours** to check the battery, sensor, and electronics, among other components. It can also log the 35 most recent events to facilitate device monitoring.

Hibernation Mode for the 2-Year BW Clip H₂S and CO Models

The **24-month H₂S and CO** versions feature a hibernation mode that pauses the operating time count when they are not in use for an extended period.

This feature can be activated for periods of inactivity lasting at least 7 days and up to 12 months in total. This allows the 24 months of effective operating time to be spread over a period of up to 36 months. When the detector is in hibernation mode, its monitoring functions are disabled.

A compact design suitable for personal wear

Weighing only **92 g** and measuring 41 × 50 × 87 mm, the BW Clip can be easily attached to clothing or equipment using its alligator clip. Its housing features an **IP66/IP67** rating for protection against dust and water.

The series is certified for use in potentially explosive atmospheres with the marking **ATEX II 1G Ex ia IIC T4 Ga**.

Technical Specifications for the Honeywell BW Clip and BW Clip RT

Type	Single-gas detector portable
Available gases	H ₂ S, CO, O ₂ , or SO ₂ depending on model
Sensor technology	Electrochemical
Service life	2 years for H ₂ S, CO, O ₂ , and SO ₂ ; 3-year versions also available for H ₂ S and CO
Battery	Built-in lithium battery, non-rechargeable and non-replaceable
Alarms	Audible ? 95 dB at 10 cm, visual, and vibrating
Automatic diagnostics	Every 24 hours
Display	LCD screen
Concentration displayed continuously	BW Clip RT only
Recording	Last 35 events
Operating humidity	5 to 95% RH, non-condensing
Protection rating	IP66 / IP67
Dimensions	41 × 50 × 87 mm
Weight	92 g with alligator clip
Compatibility	IntelliDoX and MicroDock II
ATEX Certification	II 1G Ex ia IIC T4 Ga
ATEX Certificate	DEMKO 14 ATEX 1356X
Warranty	2 or 3 years depending on the model, effective from the date of activation

Functional Test and Monitor the Detector

The absence of periodic recharging or replacement of the battery or sensor does not exempt you from regularly verifying that the detector is functioning properly. We recommend **performing regular functional tests** by exposing the sensor to a known gas concentration above the low alarm threshold and verifying that the audible and visual alarms activate.

The sensor grille must also remain clean and unobstructed to ensure proper detection. The IntelliDoX and MicroDock II systems can be used to facilitate testing, configuration, and retrieval of recorded events.