



GasAlertMicro5 Series

multi-gas detectors



Protect yourself

Simultaneously monitor and display up to five atmospheric hazards with the GasAlertMicro 5. Adaptable to a variety of applications, the GasAlertMicro 5 has an extensive selection of user-settable field options and is available as either a standard toxic gas model, a PID model for the detection VOCs, or an IR model for CO₂ detection. Use the passcode function to prevent unauthorized modifications of the instrument's settings. Compatible with BW's MicroDock II automatic test and calibration system, the GasAlertMicro 5 is unparalleled in its versatility, performance and overall value.



VOCs

CO₂

LEL

H₂S

CO

O₂

SO₂

PH₃

NH₃

NO₂

HCN

Cl₂

ClO₂

O₃

- Measure up to five atmospheric hazards concurrently
- Fully customizable to suit any application
- Rapidly switch from diffusion mode, to the optional integrated pump in the field

**WATER
RESISTANT** 

BW
Technologies
by Honeywell

Wear yellow. Work safe.

Sensor for fifth toxic, PID, or CO₂ hazards¹

Four bright, wide-angled alarm bars

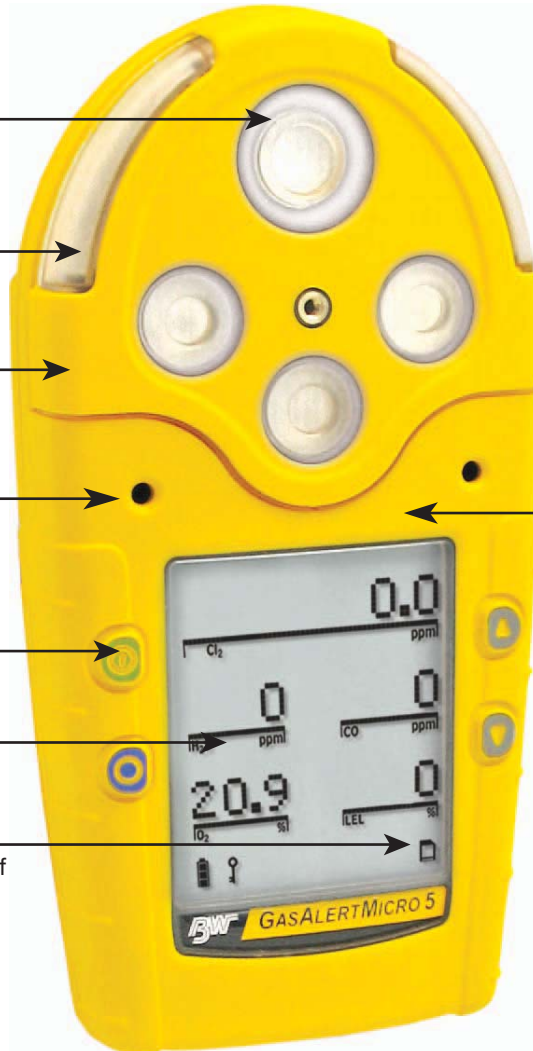
Integral concussion-proof enclosure

95 dB audible alarm (typical)

Raised buttons, easy to use with gloves

Large, easy-to-read display

Optional datalogging stores several months of continuous data



Quickly switch from diffusion to integral pump option

Multiple charging options available

Internal vibrating alarm for high-noise areas



Stainless steel alligator clip

AA alkaline or hot-swappable rechargeable battery pack options allow for battery installation in the field



Instrument model differences

	GasAlertMicro 5	GasAlertMicro 5 PID	GasAlertMicro 5 IR
Gases Detected	H ₂ S, CO, O ₂ , SO ₂ , PH ₃ , NH ₃ , NO ₂ , HCN, Cl ₂ , ClO ₂ , O ₃ and combustibles (LEL)	VOCs (PID), H ₂ S, CO, O ₂ , SO ₂ , PH ₃ , NH ₃ , NO ₂ , HCN, Cl ₂ , ClO ₂ , O ₃ and combustibles (LEL)	CO ₂ (IR), H ₂ S, CO, O ₂ , SO ₂ , NH ₃ , O ₃ and combustibles (LEL)
Sensors	Plug-in, electrochemical cell (toxic and oxygen); catalytic (LEL)	Plug-in, electrochemical cell (toxic and oxygen); catalytic (LEL); Photoionization detector (PID) with 10.6 eV lamp for volatile organic compounds (VOCs)	Plug-in, electrochemical cell (toxic and oxygen); catalytic (LEL); infrared (IR) for carbon dioxide (CO ₂)
Typical battery life²			
AA Alkaline	20 hours	15 hours	15 hours
Rechargeable	20 hours	15 hours	15 hours

²Based on the run time of a 5-gas instrument in diffusion mode at +68°F/+20°C, other instrument configurations or environmental conditions may increase/decrease the battery life of your instrument.

Sensors

The GasAlertMicro 5 is available in three models: toxic/ electrochemical, PID (for VOCs) or IR (for CO₂). For more information about available sensor configurations, please contact BW Technologies, or refer to the GasAlertMicro 5 Order and Pricing information located in the most recent BW Technologies price list.



Electrochemical and catalytic bead sensors available for:

- | | | |
|------------------|-----------------|--------------------|
| H ₂ S | CO | O ₂ |
| SO ₂ | Cl ₂ | ClO ₂ |
| NH ₃ | PH ₃ | HCN |
| NO ₂ | O ₃ | Combustibles (LEL) |



Photoionization sensor available for volatile organic compounds (VOCs) detection.



Infrared (IR) gold series sensors available for carbon dioxide (CO₂) detection.

¹Note: Due to board and sensor configuration GasAlertMicro 5 models are not interchangeable (i.e. a PID sensor cannot be used in a IR configured unit).

GasAlertMicro 5	
Industry or Application	Sources of 5 th Atmospheric Hazards
Confined Space Entry	Various sources - industrial chemicals
Wastewater Plants	Cl ₂ , NH ₃ , ClO ₂ from treatment
Steel / Iron Production	NO ₂
Pulp and Paper	Cl ₂ from bleaching
Food and Beverage	NH ₃ from refrigerants, ice production PH ₃ from fumigation
Construction	Confined space entry, trenching, and NO ₂ from diesel exhaust
GasAlertMicro 5 PID	
Industry or Application	Sources of VOC Hazards
Confined Space Entry	Respiration and aerobic bacterial decomposition
Hazmat / Homeland Security	Detect flammables not detected by LEL sensor (diesel, gasoline vapor, turpentine, etc)
Industrial Hygiene and Confined Space	Wide number of potential hazards (benzene, diesel, ethanol, toluene, etc.) dependant on industry
Airlines (wing-tank entry)	Jet fuel not detectable by LEL sensor, PID required
Landfills	Decomposing organic matter, emission of chemical compounds
Oil and Gas	By-products of refining processes
Chemical Plants	Number of potential hazards dependant on product and process of manufacturing
GasAlertMicro 5 IR	
Industry or Application	Sources of CO ₂ Hazards
Confined Space Entry	Respiration and aerobic bacterial decomposition
Wineries and Breweries	By-product of yeast fermentation
Agriculture	Greenhouses, mushroom farms use CO ₂ to enhance growth, also used to speed ripening of fruits and vegetables, aerobic bacteria in manure pits
Marine Fuel Transport / Shipping and Shipyards	Used for fire suppression and inerting cargo holds
Oil Well Fracturing	Injected into mature wells for further oil extraction
Wastewater Treatment	Aerobic bacteria
Food Industry / Cold Storage	Solid CO ₂ (dry ice) used as a refrigerant, carbonation, CO ₂ used in packaging to extend storage shelf life
Industrial and Chemical Manufacturing	CO ₂ used in various processes
Landfills	Biodegradation (aerobic decomposition) of waste







Both the diffusion and pumped configurations are compatible with the MicroDock II - automatic bump test and calibration system

Standard features of BW products:

- Continuous LCD shows real-time gas concentrations
- Water-resistant
- Automatic calibration procedure; compatible with BW MicroDock II automatic test and calibration station
- Full function self-test of sensor, battery status, circuit integrity and audible/visual alarms on start up
- Bright wide-angled visual alarm bars
- Built-in concussion-proof boot

GasAlertMicro 5 Specifications

Size	5.7 x 2.9 x 1.5 in. / 14.5 x 7.4 x 3.8 cm	
Weight	13.1 oz. / 370 g	
Temperature	-4 to +122°F / -20 to +50°C -14 to +104°F / -10 to +40°C (PID)	
Alarms	- Visual, vibrating, audible (95dB) - Low, High, STEL, TWA, OL (over limit)	
Tests	Sensor integrity, circuitry, battery and audible/visual alarms on activation, battery (continuous)	
Pump	Optional	
User options	Confidence beep	Combustible gas measurement (% LEL or % by volume methane)
	Set STEL interval	
	Set TWA method	O ₂ auto calibration on start up
	Sensor on/off	
	Latching alarms	Automatic backlight
	Safe display mode	Sleep mode
	Stealth mode	User-settable calibration gas level
	Adjust Clock	
	Set datalogger rate	Calibration due lockout
	Passcode protection	Daily bump test
	Correction factor library (LEL, PID)	Language choices (5) High resolution
	Fast pump	
Ratings	EMI/RFI: Complies with EMC Directive 89/336/EEC IP 65/67	
Certifications and approvals	 Class I, Div. 1, Gr. A, B, C, D  American Bureau of Shipping - Toxic & PID models ATEX:  II 1 G T4* Ex ia IIC T4*  II 2 G T4* - IR model only Ex d ia IIC T4* IECEX: Ex ia IIC T4* Ex d ia IIC T4* - IR model only <i>*Temperature codes may vary as a function of the batteries installed. Please see owner's manual for a complete listing of compatible batteries and codes.</i>	
Warranty	Full 2 year warranty including sensors (1 year NH ₃ and PID lamp)	

Additional GasAlertMicro 5 Features:

- Integral motorized pump option for remote sampling
- Equipped with internal vibrating alarm for high noise areas
- Two power options: AA alkaline or rechargeable hot-swappable battery packs
- Multi-language support in English, French, German, Spanish and Portuguese

Options and Accessories



Integral pump and battery charger



Confined space kit



Belt holster



Collapsible sampling probe

For a complete list of accessories, please contact BW Technologies.

Sensor Specifications

Gas	Measuring Range (ppm)	Default Resolution (ppm)	High Resolution (ppm)
H₂S	0-500	1.0	0.1
CO	0-999	1.0	N/A
TwinTox (H₂S)	0-500	1.0	0.1
TwinTox (CO)	0-500	1.0	N/A
O₂	0-30.0%	0.1%	N/A
SO₂	0-150	1.0	0.1
PH₃	0-5.0	1.0	0.1
NH₃	0-100	1.0	0.1
NO₂	0-99.9	1.0	0.1
HCN	0-30.0	1.0	0.1
Cl₂	0-50.0	1.0	0.1
ClO₂	0-1.0	0.1	0.01
O₃	0-1.0	0.1	0.01
PID (VOCs)	0-1000	1	N/A
IR (CO₂)	0-50,000 0-5.0% v/v	150 0.01%	N/A N/A
Combustible gases	0-100% LEL 0-5.0% v/v	1% 0.1%	N/A

Alarm set points for all sensors are user adjustable. Set point(s) are automatically displayed during instrument start up.

Locally available from

Supplied & Serviced by :

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