

# GasAlertMicro5 Series

multi-gas detectors



## Protect yourself

Simultaneously monitor and display up to five atmospheric hazards with the GasAlertMicro 5 Series. Adaptable to a variety of applications, the GasAlertMicro 5 Series 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 CO<sub>2</sub> 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 Series is unparalleled in its versatility, performance and overall value.



**NEW**

Generation 2 pump  
with visible integrated filter

- 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.**

VOCs

CO<sub>2</sub>

LEL

H<sub>2</sub>S

CO

O<sub>2</sub>

SO<sub>2</sub>

PH<sub>3</sub>

NH<sub>3</sub>

NO<sub>2</sub>

HCN

Cl<sub>2</sub>

ClO<sub>2</sub>

O<sub>3</sub>

Sensor for fifth toxic, PID, or CO<sub>2</sub> hazards

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

**NEW**

Replaceable integrated filter  
• window enables user to visually inspect filter  
• provides superior dust and water resistance

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
<b>Gases Detected</b>	H <sub>2</sub> S, CO, O <sub>2</sub> , SO <sub>2</sub> , PH <sub>3</sub> , NH <sub>3</sub> , NO <sub>2</sub> , HCN, Cl <sub>2</sub> , ClO <sub>2</sub> , O <sub>3</sub> and combustibles (LEL)	VOCs (PID), H <sub>2</sub> S, CO, O <sub>2</sub> , SO <sub>2</sub> , PH <sub>3</sub> , NH <sub>3</sub> , NO <sub>2</sub> , HCN, Cl <sub>2</sub> , ClO <sub>2</sub> , O <sub>3</sub> and combustibles (LEL)	CO <sub>2</sub> (IR), H <sub>2</sub> S, CO, O <sub>2</sub> , SO <sub>2</sub> , NH <sub>3</sub> , O <sub>3</sub> and combustibles (LEL)
<b>Sensors</b>	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 <sub>2</sub> )
<b>Typical battery life<sup>1</sup></b>			
AA Alkaline	20 hours	15 hours	15 hours
Rechargeable	20 hours	15 hours	15 hours

<sup>1</sup>Based 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 CO<sub>2</sub>). For more information about available sensor configurations, please contact BW Technologies by Honeywell.



Electrochemical and catalytic bead sensors available for:

H <sub>2</sub> S	CO	O <sub>2</sub>
SO <sub>2</sub>	Cl <sub>2</sub>	ClO <sub>2</sub>
NH <sub>3</sub>	PH <sub>3</sub>	HCN
NO <sub>2</sub>	O <sub>3</sub>	Combustibles (LEL)



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



Infrared (IR) gold series sensors available for carbon dioxide (CO<sub>2</sub>) detection.

Note: 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 Additional Hazards
<b>Confined Space Entry</b>	Various sources - industrial chemicals
<b>Wastewater Plants</b>	Cl <sub>2</sub> , NH <sub>3</sub> , ClO <sub>2</sub> from treatment
<b>Steel / Iron Production</b>	NO <sub>2</sub>
<b>Pulp and Paper</b>	Cl <sub>2</sub> from bleaching
<b>Food and Beverage</b>	NH <sub>3</sub> from refrigerants, ice production PH <sub>3</sub> from fumigation
<b>Construction</b>	Confined space entry, trenching, and NO <sub>2</sub> from diesel exhaust

### GasAlertMicro 5 PID

Industry or Application	Sources of VOC Hazards
<b>Confined Space Entry</b>	Respiration and aerobic bacterial decomposition
<b>Hazmat / Homeland Security</b>	Detect flammables not detected by LEL sensor (diesel, gasoline vapor, turpentine, etc)
<b>Industrial Hygiene and Confined Space</b>	Wide number of potential hazards (benzene, diesel, ethanol, toluene, etc.) dependant on industry
<b>Airlines (wing-tank entry)</b>	Jet fuel not detectable by LEL sensor, PID required
<b>Landfills</b>	Decomposing organic matter, emission of chemical compounds
<b>Oil and Gas</b>	By-products of refining processes
<b>Chemical Plants</b>	Number of potential hazards dependant on product and process of manufacturing

### GasAlertMicro 5 IR

Industry or Application	Sources of CO <sub>2</sub> Hazards
<b>Confined Space Entry</b>	Respiration and aerobic bacterial decomposition
<b>Wineries and Breweries</b>	By-product of yeast fermentation
<b>Agriculture</b>	Greenhouses, mushroom farms use CO <sub>2</sub> to enhance growth; also used to speed ripening of fruits and vegetables; aerobic bacteria in manure pits
<b>Marine Fuel Transport / Shipping and Shipyards</b>	Used for fire suppression and inerting cargo holds
<b>Oil Well Fracturing</b>	Injected into mature wells for further oil extraction
<b>Wastewater Treatment</b>	Aerobic bacteria
<b>Food Industry / Cold Storage</b>	Solid CO <sub>2</sub> (dry ice) used as a refrigerant and for carbonation; CO <sub>2</sub> used in packaging to extend storage shelf life
<b>Industrial and Chemical Manufacturing</b>	CO <sub>2</sub> used in various processes
<b>Landfills</b>	Biodegradation (aerobic decomposition) of waste







Both the diffusion and pumped configurations are compatible with the MicroDock II automated 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 (95 dB) - Low, High, STEL, TWA, OL (over limit)																									
Tests	Sensor integrity, circuitry, battery and audible/visual alarms on activation, battery (continuous)																									
Pump	Optional; Sample from up to 66 ft. / 20 m																									
User options	<table><tr><td>Confidence beep</td><td>Combustible gas measurement (% LEL or % by volume methane)</td></tr><tr><td>Set STEL interval</td><td></td></tr><tr><td>Set TWA method</td><td>O<sub>2</sub> auto calibration on start up</td></tr><tr><td>Sensor on/off</td><td></td></tr><tr><td>Latching alarms</td><td>Automatic backlight</td></tr><tr><td>Safe display mode</td><td>Sleep mode</td></tr><tr><td>Stealth mode</td><td>User-settable calibration gas level</td></tr><tr><td>Adjust Clock</td><td></td></tr><tr><td>Set datalogger rate</td><td>Calibration due lockout</td></tr><tr><td>Passcode protection</td><td>Daily bump test</td></tr><tr><td>Correction factor library (LEL, PID)</td><td>Language choices (five)</td></tr><tr><td>Fast pump</td><td>High resolution</td></tr></table>		Confidence beep	Combustible gas measurement (% LEL or % by volume methane)	Set STEL interval		Set TWA method	O <sub>2</sub> 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 (five)	Fast pump	High resolution
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Ratings	EMI/RFI: Complies with EMC Directive 89/336/EEC IP 65/66																									
Certifications and approvals	<div><div>  <b>ATEX:</b>  II 1 G Ga Ex ia IIC T4*  II 2 G - IR model only Ex d ia IIC T4* <b>IECEX:</b> Ga Ex ia IIC T4* Ex d ia IIC T4* - IR model only</div><div><p><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></p></div></div>																									
Warranty	Full two year warranty including sensors (1 year NH <sub>3</sub> , Cl <sub>2</sub> , O <sub>3</sub> , ClO <sub>2</sub> 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)
<b>H<sub>2</sub>S</b>	0-500	1.0	0.1
<b>CO</b>	0-999	1.0	N/A
<b>TwinTox (H<sub>2</sub>S)</b>	0-500	1.0	0.1
<b>TwinTox (CO)</b>	0-500	1.0	N/A
<b>O<sub>2</sub></b>	0-30.0%	0.1%	N/A
<b>SO<sub>2</sub></b>	0-150	1.0	0.1
<b>PH<sub>3</sub></b>	0-5.0	1.0	0.1
<b>NH<sub>3</sub></b>	0-100	1.0	0.1
<b>NO<sub>2</sub></b>	0-99.9	1.0	0.1
<b>HCN</b>	0-30.0	1.0	0.1
<b>Cl<sub>2</sub></b>	0-50.0	1.0	0.1
<b>ClO<sub>2</sub></b>	0-1.0	0.1	0.01
<b>O<sub>3</sub></b>	0-1.0	0.1	0.01
<b>PID (VOCs)</b>	0-1000	1	N/A
<b>IR (CO<sub>2</sub>)</b>	0-50,000 0-5.0% v/v	50 0.01%	N/A N/A
<b>Combustible gases</b>	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