GasAlertMicro 5 Series

multi-gas detectors

VOCs
CO_2
LEL
H_2S
CO
O_2
SO_2
PH_3
NH_3
NO_2
HCN
Cl_2
ClO_2
O_3

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_2 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.

Shop for Gas products online at: www.CanarySense.ca 1.800.561.8187

Sensor for fifth toxic, PID, or CO_2 hazards

Four bright, wide-angled alarm bars

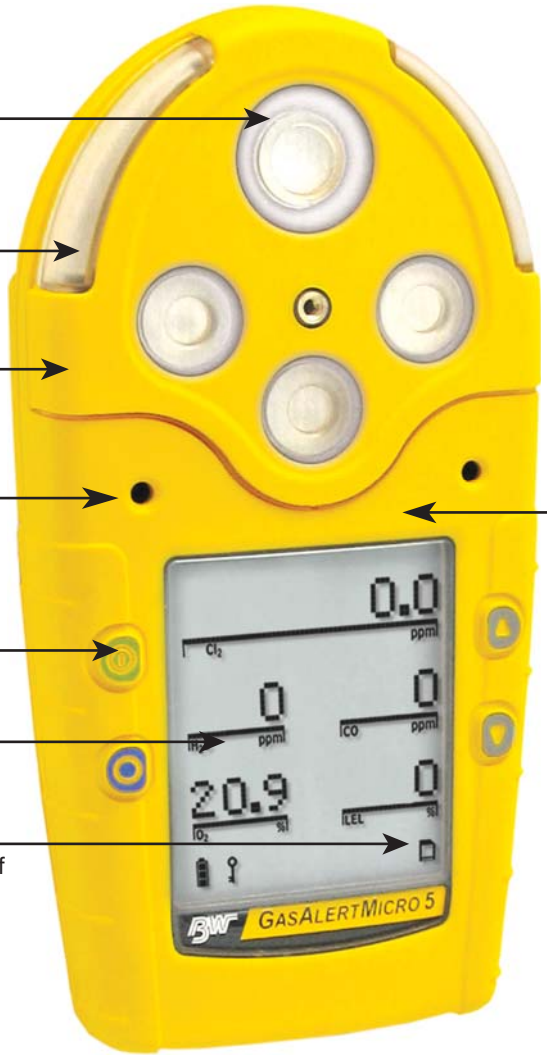
Integral concussion-proof enclosure

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
Gases Detected	H_2S, CO, O_2, SO_2, PH_3, NH_3, NO_2, HCN, Cl_2, ClO_2, O_3 and combustibles (LEL)	VOCs (PID), H_2S, 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_2S, 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 life[1]			
AA Alkaline	20 hours	15 hours	15 hours
Rechargeable	20 hours	15 hours	15 hours

[1] *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.*

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Industrial Applications

Sensors
The GasAlertMicro 5 is available in three models: toxic/electrochemical, PID (for VOCs) or IR (for CO_2). For more information about available sensor configurations, please contact BW Technologies by Honeywell.

Electrochemical and catalytic bead sensors available for:

H_2S	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 (CO_2) 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
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 and for 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 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	Confidence beep Set STEL interval Set TWA method Sensor on/off Latching alarms Safe display mode Stealth mode Adjust Clock Set datalogger rate Passcode protection Correction factor library (LEL, PID) Fast pump Combustible gas measurement (% LEL or % by volume methane) O_2 auto calibration on start up Automatic backlight Sleep mode User-settable calibration gas level Calibration due lockout Daily bump test Language choices (five) High resolution
Ratings	EMI/RFI: Complies with EMC Directive 89/336/EEC IP 65/66
Certifications and approvals	Class I, Div. 1, Gr. A, B, C, D American Bureau of Shipping - Toxic & PID models **ATEX:** CE Ex II 1 G Ga Ex ia IIC T4* CE Ex II 2 G - IR model only Ex d ia IIC T4* **IECEx:** Ga Ex ia IIC T4* Ex d ia IIC T4* - IR model only **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.*
Warranty	Full two year warranty including sensors *(1 year NH_3, Cl_2, O_3, ClO_2 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)
H_2S	0-500	1.0	0.1
CO	0-999	1.0	N/A
TwinTox (H_2S)	0-500	1.0	0.1
TwinTox (CO)	0-500	1.0	N/A
O_2	0-30.0%	0.1%	N/A
SO_2	0-150	1.0	0.1
PH_3	0-5.0	1.0	0.1
NH_3	0-100	1.0	0.1
NO_2	0-99.9	1.0	0.1
HCN	0-30.0	1.0	0.1
Cl_2	0-50.0	1.0	0.1
ClO_2	0-1.0	0.1	0.01
O_3	0-1.0	0.1	0.01
PID (VOCs)	0-1000	1	N/A
IR (CO_2)	0-50,000 0-5.0% v/v	50 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.

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