# *GasAlertMicro 5 Series*

## multi-gas detectors

**VOCs**

**CO₂**

**LEL**

**H₂S**

**CO**

**O₂**

**SO₂**

**PH₃**

**NH₃**

**NO₂**

**HCN**

**Cl₂**

**ClO₂**

**O₃**

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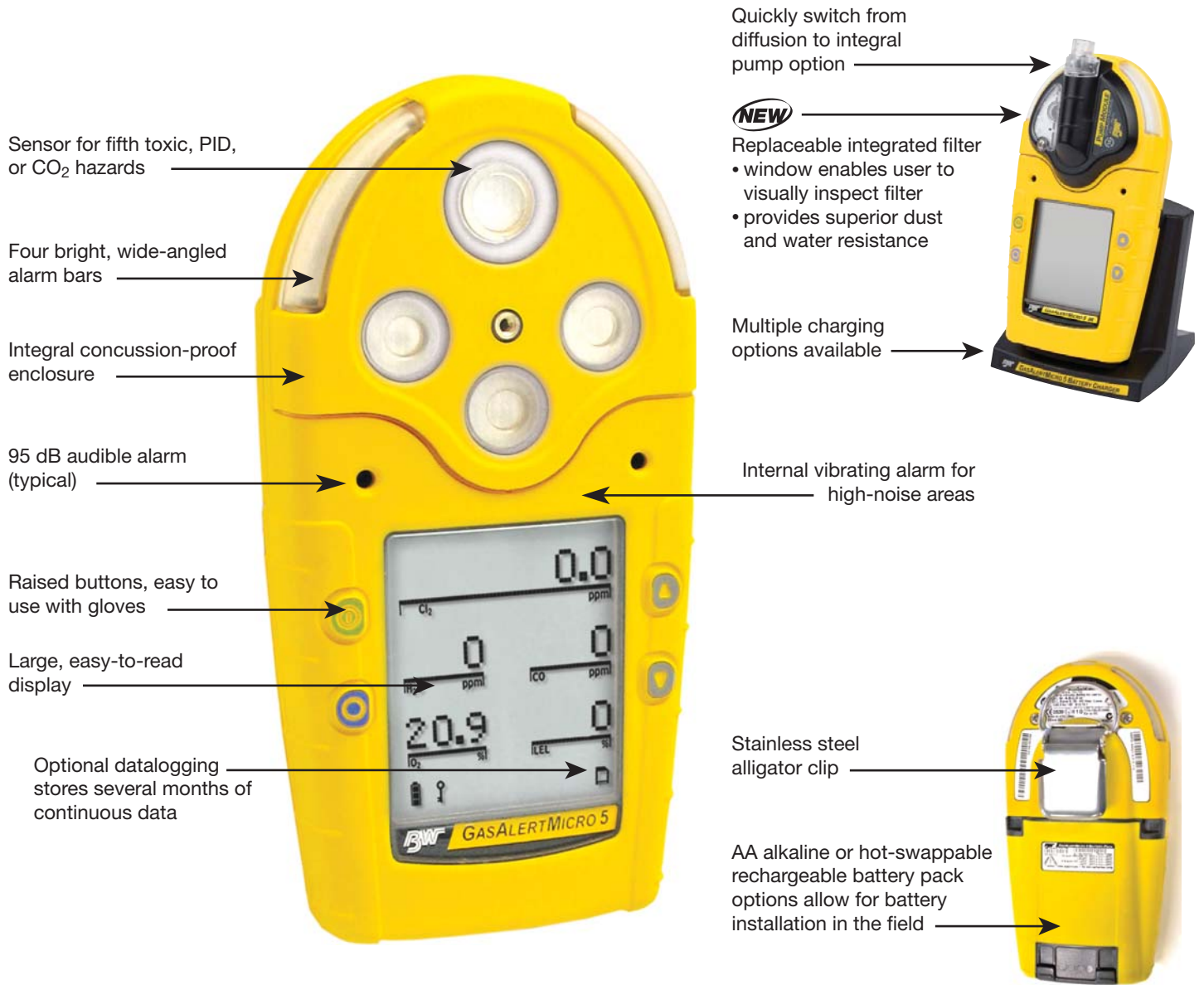
- Measure up to five atmospheric hazards concurrently
- Fully customizable to suit any application
- Rapidly switch from diffusion mode to the optional integrated pump in the field

**WATER RESISTANT**

**BW Technologies**
by Honeywell

**Wear yellow. Work safe.**

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

Sensor for fifth toxic, PID, or $CO_2$ hazards

Four bright, wide-angled alarm bars

Integral concussion-proof enclosure

95 dB audible alarm (typical)

Internal vibrating alarm for high-noise areas

Raised buttons, easy to use with gloves

Large, easy-to-read display

Optional datalogging stores several months of continuous data

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.

# GasAlertMicro 5 IR

## 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$_2$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 (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).

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

### 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 |

## 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<br>14 to +104°F / -10 to +40°C (PID) |
| **Alarms** | - Visual, vibrating, audible (95 dB)<br>- 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) / O₂ 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<br>IP 65/66 |
| **Certifications and approvals** | Class I, Div. 1, Gr. A, B, C, D<br>American Bureau of Shipping - Toxic & PID models<br>**ATEX:** CE Ex II 1 G<br>Ga Ex ia IIC T4*<br>CE Ex II 2 G - IR model only<br>Ex d ia IIC T4*<br>**IECEx:** Ga Ex ia IIC T4*<br>Ex d ia IIC T4* - IR model only<br>*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<br>*(1 year NH₃, Cl₂, O₃, ClO₂ and PID lamp)* |

## BW Technologies
by Honeywell

## 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

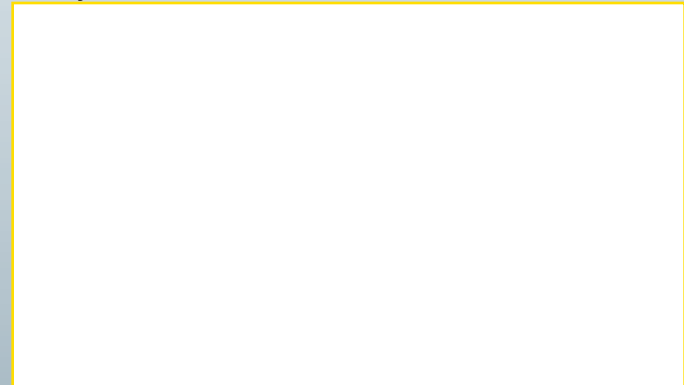Integral pump and battery charger | Confined space kit | Belt holster | Collapsible sampling probe

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<br>0-5.0% v/v | 50<br>0.01% | N/A<br>N/A |
| **Combustible gases** | 0-100% LEL<br>0-5.0% v/v | 1%<br>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

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