

# GasAlertMicro 5 PID

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

"INNOVATORS IN GAS DETECTION"



## Five-Gas Detector



### Protect Yourself

- △ Smaller and over 50% lighter than competitive instruments
- △ Water-resistant design in an integral concussion-proof enclosure
- △ Continuous LCD shows simultaneous gas concentrations for five gases
- △ 0 - 1000 ppm measurement of VOCs (Volatile Organic Compounds)
- △ Integral motorized pump option for remote sampling
- △ Two power options: AA alkaline or rechargeable hot-swappable battery packs
- △ Provides 95 dB alarm tone and two bright wide-angled alarm bars
- △ Equipped with internal vibrating alarm for high noise areas
- △ Multi-language support in English, French, German, Spanish, and Portuguese
- △ Three backlight options: standard—activates in low light (auto), in alarm (auto) and reactivates on-demand; alarm only—activates in alarm conditions and reactivates on-demand; stealth mode
- △ Four alarm levels: instantaneous Low and High Alarm for all gases; TWA (time-weighted average) and STEL (short-term exposure limit) for VOCs and toxic gases
- △ Simple automatic calibration procedure; compatible with BW MicroDock II automatic test and calibration station
- △ Records TWA, STEL, and maximum exposures to gas and displays readings on command
- △ User selectable field options include: PID / combustible correction factor, language selection, confidence beep, span level, set TWA/STEL calculation choice, set calibration due date, pass code protection, latching alarm, "SAFE" display function, stealth mode, and selectable ppm resolution for some gases (e.g. SO<sub>2</sub> 0.1 ppm)
- △ Full function self-test of: sensor, battery and circuit integrity; and audible/visual alarms
- △ Compatible with BW's MicroDock II — automated test and calibration station



GasAlertMicro 5 PID with integrally attached pump

**Water Resistant**



Optional rechargeable battery and slip-in cradle charger

### Ordering Information

GasAlertMicro 5 PID is delivered ready for use with sensors (as specified), sensor compartment cover for diffusion operation, battery (as specified), stainless steel alligator clip, calibration cap/hose, 2 extra electrode stacks, instructions in local languages and interactive training CD.

#### Battery/Charger Options

Three AA alkaline batteries  
Rechargeable battery pack and desktop/wall mountable slip-in cradle charger

#### User-Downloadable Datalogger Option

Datalogging versions include 32 MB MMC card, software and an IR port for use with the MicroDock II automated calibration and test station.

#### Pump Option

Includes detector, standard accessories plus integrally attached motorized pump and cover (installed), 12 in./30 cm sample probe with hydrophobic barrier (water trap) and particulate filters, 5 ft./1.5 m sampling tubing, five spare particulate filters, and one spare water trap filter.

#### Value Added Confined Space Kits

Kits include detector, standard accessories plus a hard-sided, foam-lined carrying case, 10 ft./3 m sampling hose, sample probe, battery power (as specified), 34 L calibration gas cylinder(s) with regulator(s).

#### Accessories

MMC USB Reader  
Manual Aspirator Pump  
MicroDock II—Automatic Calibration and Test Station  
Vehicle Charger  
Carrying Holster

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## Five-Gas Detector

**GasAlertMicro 5 PID** portable gas detector simultaneously monitors up to five atmospheric hazards including volatile organic compounds (VOCs), oxygen, combustible gas (% LEL), and a wide selection of individual electrochemical toxic sensors. Compact and lightweight, **GasAlertMicro 5 PID** activates audible, visual and vibrating alarms in the event of a low, high, TWA or STEL alarm condition.

VOCs present multiple potential threats in the workplace environment. VOCs are characterized by their tendency to evaporate easily at room temperature and include substances such as solvents, paint thinners, benzene, butadiene, hexane, toluene, as well as vapors associated with fuels such as gasoline, diesel, heating oil, kerosene, and jet fuel. The **GasAlertMicro 5 PID**'s integrated photoionization detector (PID) enables sensitive broad spectrum monitoring of volatile organic contaminants.

Highly configurable to suit a range of applications, **GasAlertMicro 5 PID** comes as a diffusion or pumped instrument; with either alkaline or NiMH rechargeable hot-swappable battery pack and has optional datalogging capabilities. Standard features include confidence beep, automatic calibration, full function self-test, and an extended selection of user-settable field options.

"INNOVATORS IN GAS DETECTION"



### For further information:

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BW1105-01-01-00-8.25x11-20050627-5789-4

## SPECIFICATIONS

DETECTOR: 1, 2, 3, 4, or 5-gas detector

Gas	Measuring Range	Default Resolution	High Resolution	TWA	STEL	LOW	HIGH
O <sub>2</sub>	0-30.0%	0.50%	N/A	N/A	N/A	19.5	23.5
H <sub>2</sub> S	0-300 ppm	1.0 ppm	0.1 ppm	10	15	10	15
CO	0-999 ppm	1.0 ppm	N/A	35	50	35	200
TwinTox (H <sub>2</sub> S)	0-300 ppm	1.0 ppm	0.1 ppm	10	15	10	15
TwinTox (CO)	0-500 ppm	1.0 ppm	N/A	35	50	35	200
PH <sub>3</sub>	0-5.0 ppm	1.0 ppm	0.1 ppm	0.3	1.0	0.3	1.0
SO <sub>2</sub>	0-100 ppm	1.0 ppm	0.1 ppm	2	5	2	5
NO <sub>2</sub>	0-99.9 ppm	1.0 ppm	0.1 ppm	2.0	5.0	2.0	5.0
HCN	0-30.0 ppm	1.0 ppm	0.1 ppm	4.7	10.0	4.7	10.0
Cl <sub>2</sub>	0-50.0 ppm	1.0 ppm	0.1 ppm	0.5	1.0	0.5	1.0
NH <sub>3</sub>	0-100 ppm	1.0 ppm	0.1 ppm	25	35	25	50
ClO <sub>2</sub>	0-1.00 ppm	0.1 ppm	0.01 ppm	0.1	0.3	0.1	0.3
O <sub>3</sub>	0-1.00 ppm	0.1 ppm	0.01 ppm	0.1	0.1	0.1	0.1
VOC	0-1000 ppm	1 ppm	N/A	50	100	50	100
LEL	0-100% LEL 0-5.0% v/v	1%	N/A	N/A	N/A	10%	20%

Auto zero: Yes  
 Calibration: Automatic  
 Backlight: Standard Mode: low light (auto); alarm condition (auto); reactivation on demand  
 Alarm Only Mode: alarm condition (auto); reactivation on demand  
 Stealth Mode: backlight inactive; audible and visual alarms silenced  
 Sensor: PID (VOC) 10.6 eV lamp; plug-in, electrochemical cell (toxic and oxygen); catalytic (LEL)  
 User field options: Confidence beep, set STEL period, force calibration on start-up, enable / disable sensor, pass code protection, latching alarms, span level, passed calibration user-lockout option, "SAFE" display function, stealth mode, fast pump, oxygen auto-cal on start-up, alarm only backlight mode, combustible gas measurement (% LEL or % by volume methane), LCD language option, STEL calculation choice, TWA calculation choice, PID / combustible correction factor options, user-settable calibration gas level, high resolution, clock  
 Pump: Tubing length up to 100 ft. / 30 m (50 ft. / 15 m standard) with user options  
**ALARM INDICATORS:** Clearly advises alarm conditions with audible, visual, and vibrator alarms  
 Visual alarms: Two flashing alarm bars visible from all angles  
 LCD indicates gas present and alarm levels encountered  
 Audible alarm: Typically 95 dB at 1 ft. / 30 cm variable pulsed audible alarm  
 Vibrator alarm: Pulses warning in gas alarm conditions, or for any status alarms  
 Status alarms: Low battery, over range, multiple gas / pump and failed or missing sensor  
**ALARM LEVELS:** Instantaneous Low Alarm for all gases; Instantaneous High Alarm for all gases; TWA (time-weighted average) and STEL (short-term exposure limit) for toxics/VOCs  
**LCD:** Continuous, alphanumeric gas readout and status display advises:  
 Gases monitored: VOCs (PID), H<sub>2</sub>S, CO, O<sub>2</sub>, SO<sub>2</sub>, PH<sub>3</sub>, NO<sub>2</sub>, NH<sub>3</sub>, HCN, Cl<sub>2</sub>, ClO<sub>2</sub>, O<sub>3</sub> and/or combustibles (0-100% LEL or 0-5.0% methane)  
 Gas concentration: Simultaneously and continuously displays gas concentration(s) for all sensors (in ppm, % LEL, or % v/v)  
 Peak (max)/STEL/TWA ppm or %: Records exposures and displays on demand  
 Alarm setpoints: Displayed on activation and on demand  
 Calibration due date: Days remaining on start-up  
 Clock: Real-time clock setting displayed on start-up

### TESTS:

Full function self-test: Sensor integrity, circuitry, battery and audible/visual alarms on activation  
 Battery: Continuous

### GENERAL SPECIFICATIONS:

Rugged, composite material; two-shot molded polymer case with integral anti-shock boot  
 Operating temperature: 14 to 104°F / -10 to 40°C VOC (PID); -4 to 122°F / -20 to 50°C other gases  
 Humidity: 0 - 95% RH (non-condensing)  
 EMI/RFI: Complies with EMC Directive 89/336/EEC  
 Protection: Highly water resistant and dust proof housing  
 Battery Options: 12 hours on three AA alkaline cells or 10 hours on rechargeable "hot-swappable" battery pack when equipped with PID, oxygen, combustible and TwinTox (H<sub>2</sub>S/CO) sensor

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

**WARRANTY:** Full 2-year warranty including all sensors (1 year PID lamp and NH<sub>3</sub> sensor)

### DATALOGGER OPTIONS:

Data recorder: User-downloadable datalogger  
 All events and occurrences (calibration zero adjustment, calibration span adjustment, gas readings, TWA, STEL, alarm condition, failures detected by the microprocessor).  
 Sampling rate: Factory set at 5-second intervals and user-settable from 1 to 127-second intervals  
 Storage: 2 months of continuous data at 5 second intervals via 32 MB Flash MMC card (64 MB and 128 MB cards also available); when full, the wrap-around feature replaces oldest data with most recent data

DUE TO ONGOING RESEARCH AND PRODUCT IMPROVEMENT, SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

**RATINGS AND CERTIFICATIONS:** Class I, Div. 1, Gr. A, B, C, D (Intrinsic safety) American Bureau of Shipping

**ATEX:** II 1 G T4  
 EEx ia IIC T4  
**IECEX:** Ex ia IIC T4

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