

# GasAlertMicro 5 IR

CO<sub>2</sub>, 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



## Five-Gas Detector



### Protect Yourself

- △ 0-5.0% v/v or 0-50,000 ppm measurement of CO<sub>2</sub> (carbon dioxide)
- △ Smaller and lighter than competitive instruments
- △ Water-resistant design in an integral concussion-proof enclosure
- △ Continuous LCD shows simultaneous gas concentrations for five gases
- △ 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 CO<sub>2</sub> and toxic gases
- △ Simple automatic calibration procedure; compatible with BW MicroDock II automatic test and calibration station
- △ Records TWA, STEL, and maximum (MAX) exposures to gas and displays readings on command
- △ User selectable field options include: Combustible correction factor, language selection, confidence beep, span level, set TWA/STEL calculation choice, set calibration due date, passcode 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



GasAlertMicro 5 IR  
with integrally attached pump

**Water  
Resistant**



Optional rechargeable battery  
and slip-in cradle charger

### Ordering Information

GasAlertMicro 5 IR 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, instructions in local languages and interactive training CD.

#### Battery/Charger Options

Consult factory for battery/charger options  
Rechargeable battery pack and desktop/wall mountable slip-in cradle charger

#### User-Downloadable Datalogger Option

Datalogging versions include a memory 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

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

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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

## Five-Gas Detector

GasAlertMicro 5 IR portable gas detector simultaneously monitors up to five atmospheric hazards including carbon dioxide (CO<sub>2</sub>), oxygen (O<sub>2</sub>), combustible gas (% LEL), and a wide selection of individual electrochemical toxic sensors. Compact and lightweight, GasAlertMicro 5 IR activates audible, visual and vibrating alarms in the event of a low, high, TWA or STEL alarm condition.

Highly configurable to suit a range of applications, the GasAlertMicro 5 IR 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.



For further information:

## 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	0-500.0 ppm	1 ppm	0.1 ppm	10	15	10	15
CO	0-999 ppm	1 ppm	N/A	35	50	35	200
TwinTox (H <sub>2</sub> S)	0-500.0 ppm	1 ppm	0.1 ppm	10	15	10	15
TwinTox (CO)	0-500 ppm	1 ppm	N/A	35	50	35	200
PH <sub>3</sub>	0-5.0 ppm	1 ppm	0.1 ppm	0.3	1.0	0.3	1.0
SO <sub>2</sub>	0-150.0 ppm	1 ppm	0.1 ppm	2	5	2	5
NO <sub>2</sub>	0-99.9 ppm	1 ppm	0.1 ppm	2.0	5.0	2.0	5.0
HCN	0-30.0 ppm	1 ppm	0.1 ppm	4.7	10.0	4.7	10.0
Cl <sub>2</sub>	0-50.0 ppm	1 ppm	0.1 ppm	0.5	1.0	0.5	1.0
NH <sub>3</sub>	0-100 ppm	1 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
IR-CO <sub>2</sub>	0-50,000 ppm 0-5.0% v/v	50 ppm 0.01%	N/A	5,000 0.5%	30,000 3.0%	5,000 0.5%	30,000 3.0%
LEL	0-100% LEL 0-5.0% v/v	1%	N/A	N/A	N/A	10%	20%

### GENERAL SPECIFICATIONS:

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: Infrared CO<sub>2</sub>; 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,

### ALARM INDICATORS:

Visual alarms: Two flashing alarm bars visible from all angles  
 LCD indicates gas present and alarm levels encountered  
 Typically 95 dB at 1 ft./30 cm variable pulsed audible alarm  
 Audible alarm: Pulses warning in gas alarm conditions, or for any status alarms  
 Vibrator alarm: Low battery, over range, multiple gas/pump and failed or missing sensor  
 Status alarms: Instantaneous low alarm for all gases; instantaneous high alarm for all gases;

### ALARM LEVELS:

LCD: Continuous, alphanumeric gas readout and status display advises:  
 CO<sub>2</sub>, 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)  
 Gases monitored: Simultaneously and continuously displays gas concentration(s) for all sensors (in ppm, % LEL, or % v/v)  
 Gas concentration: Peak (MAX)/STEL/  
 TWA ppm or %:  
 Alarm setpoints: Records exposures and displays on demand  
 Displayed on activation and on demand  
 Calibration due date: Days remaining on start-up  
 Clock: Real-time clock setting displayed on start-up or on demand

### TESTS:

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

### GENERAL SPECIFICATIONS:

Operating temperature: Rugged, composite material; two-shot molded polymer case with integral anti-shock boot  
 -4 to 122°F / -20 to 50°C  
 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: Up to 10 hours (typical) in diffusion mode with "hot-swappable" rechargeable or AA alkaline battery packs

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 on 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: 8 months of continuous data at 5 second intervals via 128 MB memory card; 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.

CLASSIFICATIONS AND CERTIFICATIONS: Class I, Div. 1, Gr. A, B, C, D  
 (Intrinsic safety)

ATEX: CE II 2 G T4  
 EEx ia IIC T4  
 IECEx: Ex ia IIC T4

