

GasAlertMicro 5 IR

CO₂, H₂S, CO, O₂, SO₂, PH₃, NH₃, NO₂,
HCN, Cl₂, ClO₂, O₃, and Combustibles

Five-Gas Detector



Protect Yourself

- △ 0-5.0% v/v or 0-50,000 ppm measurement of CO₂ (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 CO₂ 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. SO₂ 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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Five-Gas Detector

GasAlertMicro 5 IR portable gas detector simultaneously monitors up to five atmospheric hazards including carbon dioxide (CO₂), oxygen (O₂), 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:

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SPECIFICATIONS

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

Gas	Measuring Range	Default Resolution	High Resolution	TWA	STEL	LOW	HIGH
O ₂	0-30.0%	0.50%	N/A	N/A	N/A	19.5	23.5
H ₂ 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 ₂ 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 ₃	0-5.0 ppm	1 ppm	0.1 ppm	0.3	1.0	0.3	1.0
SO ₂	0-150.0 ppm	1 ppm	0.1 ppm	2	5	2	5
NO ₂	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 ₂	0-50.0 ppm	1 ppm	0.1 ppm	0.5	1.0	0.5	1.0
NH ₃	0-100 ppm	1 ppm	0.1 ppm	25	35	25	50
ClO ₂	0-1.00 ppm	0.1 ppm	0.01 ppm	0.1	0.3	0.1	0.3
O ₃	0-1.00 ppm	0.1 ppm	0.01 ppm	0.1	0.1	0.1	0.1
IR-CO ₂	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 CO₂; 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, passcode 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, combustible correction factor options, CO₂ measurement (ppm or %vol), user-settable calibration gas level, high resolution, clock

ALARM INDICATORS:

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/CO₂
LCD: Continuous, alphanumeric gas readout and status display advises: CO₂, H₂S, CO, O₂, SO₂, PH₃, NO₂, NH₃, HCN, Cl₂, ClO₂, O₃ 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: Simultaneously and continuously displays gas concentration(s) for all sensors (in ppm, % LEL, or % v/v)

ALARM INDICATORS:

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 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 NH₃ sensor)
DATALOGGER OPTIONS: User-downloadable datalogger
Data recorder: 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.

RATINGS 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