

GasAlertMicro 5 PID



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 toxic gases. Compact and lightweight, GasAlertMicro 5 PID activates audible, visual and vibrating alarms in the event of a low, high, TWA or STEL alarm condition.



GasAlertMicro 5 PID
with integrally attached pump

- Smaller and over 50% lighter than competitive instruments
- Water-resistant design with 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
- LCD backlight automatically activates on alarm, on demand and in low light conditions
- 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
- Complete range of user selectable options
- Full function self-test of: sensor, battery and circuit integrity, and audible/visual alarms



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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.



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 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 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 ppm	1 ppm	0.1 ppm	0.3	1.0	0.3	1.0
SO ₂	0-150 ppm	1 ppm	0.1 ppm	2	5	2	5
NO ₂	0-99 ppm	1 ppm	0.1 ppm	2.0	5.0	2.0	5.0
HCN	0-30 ppm	1 ppm	0.1 ppm	4.7	10.0	4.7	10.0
Cl ₂	0-50 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	0-1.0 ppm	0.1 ppm	0.01 ppm	0.1	0.3	0.1	0.3
O ₃	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
Combustible Gases	0-100% LEL 0-5.0% v/v	1%	N/A	N/A	N/A	10%	20%

Auto zero: Yes
 Calibration: Automatic
 Backlight: Low light (auto); alarm condition (auto); reactivation on demand
 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, 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, PID / combustible correction factor options, user-settable calibration gas level, high resolution, clock

ALARM INDICATORS:
 Visual alarms: Clearly advises alarm conditions with audible, visual and vibrator alarms
 Audible alarm: 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
 Vibrator alarm: Pulses warning in gas alarm conditions or for any status alarms
 Status alarms: Low battery, over range, multiple gas, pump, failed sensor and 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:
 Peak (MAX)/STEL/TWA: Records exposures and displays on demand
 Alarm setpoints: Displayed on activation and on demand
 Calibration due date: Days remaining displayed 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:
 Operating temperature: Rugged, composite material; two-shot molded polymer case with integral anti-shock boot
 14 to 104°F / -10 to 40°C VOC (PID); -4 to 104°F / -20 to 40°C NH₃; -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 (H₂S/CO) sensors

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 sensors (1 year PID lamp and 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: 4.4 months of continuous data at 5 second intervals via memory card; when full, the wrap-around feature replaces oldest data with most recent data