

FIXED VOC MONITORS



VOXI PID

PROFESSIONAL GAS DETECTION & ALARM SYSTEMS

The VOXI PID series of fixed transmitters utilize Photo-ionization Detection (PID) technology to monitor Volatile Organic Compounds (VOCs) at resolutions of 1 ppb with the MP812 and 10 ppb with the MP815.

Features, Functions and Benefits

VOC emissions monitoring

Several hundred gas correction factors

1 ppb or 10 ppb resolution (separate models)

Outstanding linearity over full measurement range

Auto-ranging and auto-zeroing

Wide temperature range of -40° to +70°C

Built-in heater to prevent condensation

OLED display for maximum visibility outdoors

Mobile App and Bluetooth controller for handy configuration and testing

Outputs: 4-20 mA, CAN/Modbus, 3 Relays and output to strobe or horns

Lamp glow indicator

Rugged, explosion-proof housing

Easy access to clean lamp & sensor

Innovative PID for performance & long life



Reverse Display in low light

VOXI PID MP 812 & MP815

A built-in heater prevents condensation of moisture in the transmitter under high-humidity conditions. Innovative designs of the ultraviolet (UV) 10.6 eV lamp and electrometer reduce contamination, producing more accurate and stable readings and extending maintenance intervals. Mobile apps and a Bluetooth controller make on-site configuration, testing, and trouble-shooting easy and handy. The OLED display is visible from a distance even under strong lighting or darkness, while data and alarms are continuously sent to a controller wirelessly or via cables. Major applications include VOC emission monitoring around petrochemical plants, manufacturing and processing facilities.



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Model Options

Model	VOC Range (ppm)	Accuracy	Part No.
MP812	0.001-200 10.6eV 0.05-200 9.8eV	±2% full scale	M008-0001-000
MP815	0.01-5,000	±5% full scale	M008-0003-000

Options	• Calibration gas & regulator • Filter pack • Mounting bracket • Remote programmer • 9.8 eV lamp as specified
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Applications

- Fence-line & Environmental monitoring
- Air Quality control
- Oil, gas & refineries
- Chemical plants
- Manufacturing & processing
- Paints, coatings & adhesives
- Pharmaceuticals & food processing
- Solvent recovery
- Paper pulp and wastewater treatment
- Fumigation

Detector Specifications

Size	8.4 x 7.1 x 5.0 in (213 x 180 x 127 mm)
Weight	3.3 lbs. (1.5 kg)
Sensor	Photo-ionization detector with standard 10.6 eV lamp (Optional 9.8 eV lamp for BTEX screening)
Detectable Chemicals	Volatile Organic Compounds (VOCs): fuels, solvents, paints, fumigants, ammonia, etc.
Calibration	Two-point calibration
Response Time (for isobutylene)	t90 ≤30 seconds (with standard glass-fiber filter) t90 ≤5 seconds (w/o glass-fiber filter)
Temperature	-40° to 158°F (-40° to 70°C)
Sampling Pump	Diaphragm pump ≥400 cc/min when responding chemicals are present. Pump duty cycling to ≥130 cc/min when PID response is below pre-set threshold. Sample from up to 100 ft (30 m).
Display	128x64 OLED: • Real-time readings (auto-ranging 4 digits) • Gas type • Measurement unit • Pump status • Bluetooth and wireless statuses if available

Power	<5W; 12-30 VDC supply
Humidity	0% to 100% Relative humidity
Communication	Remote Bluetooth programmer and Android App
Outputs	• Analog: 4-20 mA (3 wires) • Digital: RS-485, CAN or ModBus • 3 relays • 1 port to external strobe and horn
Alarms	OLED flashing, external strobe and horn
Safety Certifications	ATEX II 2 G Ex db IIC T6 Gb UL II 2 D Ex tb IIIC T80°C Db IP 65 Class I, Zone 1, AEx db ib IIC cUL Ex db IIC T6 Gb X Ex ib tb IIIC T80°C Db IECEX Ex db IIC T6 Gb Ex ib tb IIIC T80°C Db CE European Conformity IECEX Ex ia IIC T4 Ga (MP210 BLE programmer) -20° C ≤ Tamb ≤ +50° C
Housing	Aluminum alloy
Housing Entries	2 Conduit entries 3/4" NPT
IP Rating	IP-65
EMI/RFI	Highly resistant to EMI/RFI Compliant with EMC Directive 2014/30/EU
Installation	Pipe bracket, wall mount
Warranty	2 Years including PID sensor, 1 year on 10.6 eV lamp, 6 months on 9.8 eV lamp

* Due to ongoing research and product improvement, specifications are subject to change without notice *