

## Fixed VOC Monitors




The VOXI 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. 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, 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.

### Features, Functions and Benefits

- VOC emissions monitoring
- 450 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
- 3 Relays and output to alarm strobe or horns
- Lamp glow indicator
- Rugged, explosion-proof housing
- Easy access to clean lamp & sensor
- Innovative PID for performance & long life

## Detector Specifications

<b>Size</b>	8.4 x 7.1 x 5.0 in (213 x 180 x 127 mm)
<b>Weight</b>	3.3 lbs. (1.5 kg)
<b>Sensor</b>	Photo-ionization detector with standard 10.6 eV lamp
<b>Detectable Chemicals</b>	Volatile Organic Compounds (VOCs): fuels, solvents, paints, fumigants, ammonia, etc.
<b>Calibration</b>	Two-point calibration
<b>Response Time</b> (for isobutylene)	$t_{90} \leq 30$ seconds (with standard glass-fiber filter) $t_{90} \leq 5$ seconds (w/o glass-fiber filter)
<b>Temperature</b>	-40° to 158°F (-40° to 70°C)
<b>Humidity</b>	0% to 100% Relative humidity
<b>Power</b>	<5W; 12-30 VDC supply
<b>Sampling Pump</b>	Diaphragm pump $\geq 400$ cc/min when responding chemicals are present. Pump duty cycling to $\geq 130$ cc/min when PID response is below pre-set threshold. Sample from up to 100 ft (30 m).
<b>Display</b>	128x64 OLED: <ul style="list-style-type: none"> <li>• Real-time readings (auto-ranging 4 digits)</li> <li>• Gas type</li> <li>• Measurement unit</li> <li>• Pump status</li> <li>• Bluetooth and wireless statuses if available</li> </ul>
<b>Communication</b>	Remote controller and Android App
<b>Outputs</b>	<ul style="list-style-type: none"> <li>• Analog: 4-20 mA (3 wires)</li> <li>• Digital: RS-485,</li> <li>• CAN or ModBus</li> <li>• 3 relays</li> <li>• 1 port to external strobe and horn</li> </ul>
<b>Alarms</b>	OLED flashing, external strobe and horn
<b>Event Log</b>	Up to 10 alarm events
<b>Housing</b>	Aluminum alloy
<b>Housing Entries</b>	2 Conduit entries $\frac{3}{4}$ " NPT
<b>IP Rating</b>	IP-66
<b>EMI/RFI</b>	Highly resistant to EMI/RFI Compliant with EMC Directive 2014/30/EU
<b>Safety Certifications</b>	<ul style="list-style-type: none"> <li>•  Class I, Div. 1, Group ABCD T4 (pending) -20°C <math>\leq</math> T<sub>amb</sub> <math>\leq</math> +50°C</li> <li>• <b>IECEx</b> Ex d ia IIC T4 Gb (pending)</li> <li>• <b>ATEX</b> II 2G Ex d ia IIC T4 Gb (pending)</li> <li>• <b>CE</b> European Conformity</li> </ul>
<b>Installation</b>	Pipe holding, wall mount
<b>Warranty</b>	1 Years including PID sensor, 1 year on lamp

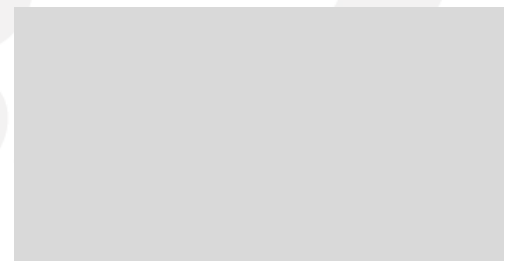
## Model Options

Model	VOC Range (ppm)	Accuracy	Part No.
<b>MP812</b>	0.001-200	$\pm 2\%$ full scale	M008-0001-000
<b>MP815</b>	0.01-5,000	$\pm 5\%$ full scale	M008-0003-000
<b>Options</b>	<ul style="list-style-type: none"> <li>• Intrinsically safe Android phone</li> <li>• Strobe and Horn</li> <li>• Calibration gas &amp; regulator</li> <li>• Filter pack</li> </ul>		

## 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

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