

TOXIC GAS TRANSMITTERS



VOXI EC



PROFESSIONAL GAS DETECTION & ALARM SYSTEMS

The VOXI EC MP840 is a point-type toxic gas transmitter designed with smart sensor technology and an integral flameproof enclosure for fixed applications.

Features, Functions and Benefits

Supporting >10 smart modules with sensor identification and manufacturing data

Sensor diagnosis, temperature compensation and auto-zeroing

LCD with backlight color varying with alarm condition

Calibration due date

3 wires for 4-20 mA and RS485 ModBus output

Infrared remote programmer for settings, calibrations and adjustments

Error codes for easy troubleshooting

Recoverable factory settings

IP67 rating

ATEX, UL/cUL and Marine Certifications

Optional ISM 915MHz modem for wireless connectivity at no subscription fee (check availability)

VOXI EC MP840

The versatile platform offers over 10 chemical sensor options, auto-zeroing and offline calibration. Three-wire 4-20 mA analog and RS485 digital signal outputs are standard, while wireless output is optional. Various applications include oil & gas, petrochemical, chemical, metallurgical, pharmaceutical, semiconductor, environmental monitoring, and other industry facilities.



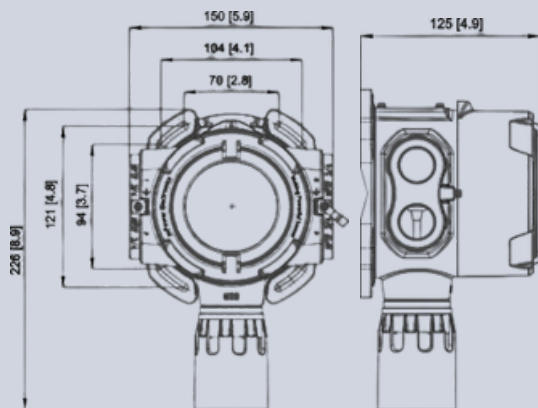
CONTACT US

info@mpowerinc.com

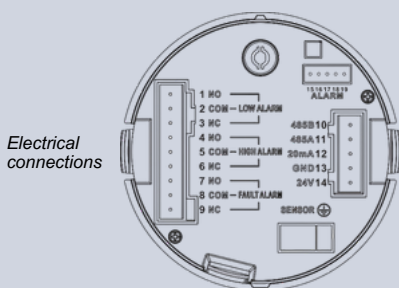
866.mPower7 (866.676.9377) | Toll-free (North America)

408.320.1266 | International

2910 Scott Blvd., Santa Clara, CA 95054



Dimensions in mm [inches]



Electrical connections

Standard

- Gas Transmitter with Sensor installed
- Rain Shield & Calibration Cap
- Infrared Remote Programmer
- Quick Start Guide
- Calibration Certificate

Sensor Options

Gas	Range	Resolution
O ₂ (Oxygen) Lead-Free	0-30%Vol	0.1%Vol
CO (Carbon Monoxide)	0-1000 ppm 0-2000 ppm	1 ppm 1 ppm
H ₂ S (Hydrogen Sulfide)	0-200 ppm 0-1000 ppm	0.1 ppm 1 ppm
SO ₂ (Sulfur Dioxide)	0-20 ppm	0.1 ppm
ClO ₂ (Chlorine Dioxide)	0-1 ppm	0.01 ppm
H ₂ (Hydrogen)	0-1000 ppm	1 ppm
HF (Hydrogen Fluoride)	0-20 ppm	0.1 ppm
HCN (Hydrogen Cyanide)	0-100 ppm	0.1 ppm
NH ₃ (Ammonia)	0-100 ppm 0-1000 ppm	1 ppm 1 ppm
NO (Nitric Oxide)	0-250 ppm	1 ppm
NO ₂ (Nitrogen Dioxide)	0-20 ppm	0.1 ppm
Cl ₂ (Chlorine)	0-50 ppm	0.1 ppm
PH ₃ (Phosphine)	0-20 ppm 0-1000 ppm	0.01 ppm 1 ppm
ETO (Ethylene Oxide)	0-100 ppm 0-1000 ppm	1 ppm 1 ppm

Optional

- Mounting Bracket
- Strobe and Horn with 3/4" NPT Fitting

Detector Specifications

Size	8.9 x 5.9 x 4.9 in (226 x 150 x 125 mm)
Weight	5.7 lbs. (2.6 kg)
Sensors	Electrochemical sensor modules
Calibration	Two-point calibration (zero & span)
Response Time	30 to 120s (t90 varies with sensor type)
Temperature	-40° to +131°F (-40° to +55°C) -40° to +158°F (-40° to +70°C) intermittent
Humidity	10% to 95% Relative Humidity (non-condensing)
Pressure	86 to 106 kPa (0.85 to 1.05 atm)
Power	<1W; 10-30 VDC supply
Sampling	Diffusion
Display	4-digit segmented LCD
Configuration	Via remote infrared programmer
IP Rating	IP-67
Warranty	2 Years on CO & H ₂ S sensors 1 year on others

Outputs	Analog: 4-20 mA (3 wires) Digital: RS-485 ModBus 3 Relays Wireless ISM 915MHz (optional) 1 mile line of sight
Alarms	LCD & LED flashing, external strobe and horn (optional)
Safety Certifications	ATEX II 2 G Ex db ia IIC T6 Gb II 2 D Ex ia tb IIIC T80°C Db UL Class I Zone 1, AEx db ia IIC T6 Gb cUL Ex db ia IIC T6 Gb X Ex ia tb IIIC T80°C Db IECEx Ex db ia IIC T6 Gb Ex ia tb IIIC T80°C Db CE European Conformity ABS 24-0133376-PDA DNV 0098/2025
Housing	Explosion-proof aluminum alloy
Housing Entries	4 Conduit entries 3/4" NPT 1 Port M28x1 fitting
Installation	Pipe bolt or wall mount
EMI/RFI	Compliant with EMC Directive 2014/30/EU

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