

COMBUSTIBLE GAS TRANSMITTERS



VOXI LEL



PROFESSIONAL GAS DETECTION & ALARM SYSTEMS

The VOXI LEL MP820 is a point-type combustible gas transmitter designed modularly with smart sensor technology and an integral flameproof enclosure for fixed applications.

Features, Functions and Benefits

Supporting both NDIR and catalytic combustion LEL sensor modules, with sensor identification and manufacturing data.

Sensor diagnosis, temperature compensation and auto-zeroing

LCD with backlight color varying according to alarm status

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 LEL MP820

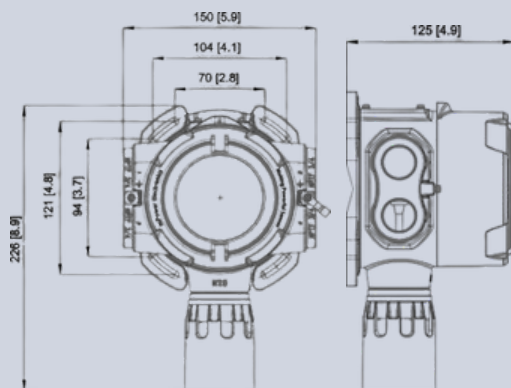
The versatile platform offers either NDIR or pellister-type sensors for LEL with auto-zeroing and offline calibration. An NDIR option for CO₂ is also available. Three-wire 4-20 mA analog and RS485 digital signal outputs are standard, while wireless output is optional. Various applications include oil & gas, petrochemical, chemical, metallurgical, pharmaceutical, semiconductor, environmental monitoring, and other industry facilities.



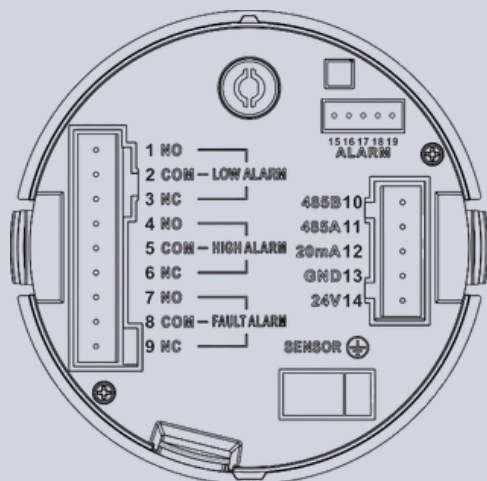
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Dimensions in mm [inches]



Power and output connections

Sensor Options

Sensor	Range	Resolution
LEL (Combustibles)	0-100%LEL	1%LEL
LEL (NDIR)	0-100%LEL	1%LEL
Factory Calibration Gas	Methane, Propane, or Hydrogen	
CO2 (Carbon Dioxide)	0-5%CO2	0.01%CO2

Standard

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

Optional

- ISM 915 MHz Modem with Antenna
- Mounting Bracket

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	Catalytic combustion for LEL, or NDIR for LEL or CO2
Calibration	Two-point calibration (zero & span)
Response Time	15s t90
Temperature	-40° to +158°F (-40° to +70°C)
Humidity	10% to 95% Relative Humidity (non-condensing)
Pressure	86 to 106 kPa (0.85 to 1.05 atm)
Power	<5W; 10-30 VDC supply
Sampling	Diffusion
Display	4-digit segmented LCD
Configuration	Via remote infrared programmer

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, relays for external alarm devices
Safety Certifications	ATEX II 2 G Ex db IIC T6 Gb II 2 D Ex tb IIIC T80°C Db UL Class I Zone 1, AEx db IIC T6 Gb cUL Ex db IIC T6 Gb X Ex tb IIIC T80°C Db IECEx Ex db IIC T6 Gb (non-Wireless) Ex tb IIIC T80°C Db (non-Wireless) Ex db ia IIC T6 Gb (Wireless) Ex ia tb IIIC T80°C Db (Wireless) 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
IP Rating	IP-65
EMI/RFI	Compliant with EMC Directive 2014/30/EU
Warranty	2 Years

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