MPS LEL Combustible Gas Monitor

ITEM# 99214

Product Summary

The PureAire Molecular Property Spectrometer (MPS) LEL Combustible Gas Monitor accurately measures over 14 gases including, but not limited to hydrogen, methane, propane, and butane. The MPS LEL Gas Monitor is ideal for facilities that require continuous monitoring of combustible and toxic gases in hazardous areas. The monitor is best suited for locations such as semiconductor, research and development, pharmaceutical manufacturing, warehouses, laboratories, agriculture facilities, and other locations where combustible, toxic gases are present.

Operator interface is via a menu driven magnetic keypad allowing full access without opening the enclosure.

The RS-485 interface allows data transmission, including gas level,

classification, temperature, pressure, relative humidity, and absolute humidity. The Monitor is housed in a corrosion and water resistant NEMA 4 explosion proof enclosure suitable for Class I & II, Division 1, Groups B, C, D, E, F, G. Class III Type 4X/IP66 | ATEX* - Ex d IIC | Ex d IIC IEC 60529 IP66 | IECEx* Ex db IIC T4 Gb | Tamb" -20°C to +60°C. The MPS Flammable Gas Monitor is engineered for versatility and safety—it can be remotely mounted in hazardous environments at distances of up to 30 feet using customer-supplied cable.

Industries That Need This Product

- *Oil & Gas*
- *Semiconductor*
- *Research & Development*
- *Pharmaceutical*
- *Laboratories*
- *Agriculture*

FEATURES

- **LEL reading for multiple flammable gases with a single sensor**
- **RS-485 Communication Interface**
- **Automatically classifies the type of gas**
- **15+ Year sensor - Zero calibration required**
- **Easy to use - Set it and forget it technology**
- **Zero drift**
- **Immune to poisoning**
- **Operating temperatures: -4°F to +140°F (-20°C to +60°C)**
- **Fail-safe - Built-in self-test**
- **Back-lit LCD Display**
- **4-20mA output**
- **User-adjustable dual alarm relays**
- **Durable XP Housing; Certified for hazardous locations**
- **Haz Loc certified**
- **Ratings: Class I & II, Division 1, Groups B, C, D, E, F, G. Class III Type 4X/IP66 | ATEX* - Ex d IIC | Ex d IIC IEC 60529 IP66 | IECEx* Ex db IIC T4 Gb | Tamb" -20°C to +60°C**
- **Can be remotely mounted up to 30 feet using customer-supplied cable**

Why Choose PureAire?

PureAire Monitoring Systems, Inc. is an industry leader in oxygen monitoring and gas detection. For over 25 years, we have dedicated ourselves to the safety of our clients, and the customers they serve, by manufacturing monitors that are long-lasting, accurate, and reliable. PureAire takes pride in providing exceptional customer service along with 24/7 availability to our technical service department.

Why an MPS LEL CombustibleGas Monitor?

The PureAire MPS LEL Combustible Gas Monitor is designed to detect the full range of up to 14 combustible gases and classify detected gases into categories: hydrogen, hydrogen mixtures, natural gas, and light, medium, or heavy gas / mixtures, making it ideal for complex industrial applications.

Set Up

Secure the MPS Monitor to the wall so the display is visible, and connect the monitor to the power source. The MPS Monitor will begin sampling gas levels after a brief startup period. Gas levels are displayed clearly on the screen for easy access and visibility.

Top Advantages of MPS LEL Combustible Gas Monitor

Gas Detector Alarms

PureAire's MPS LEL Combustible Gas Monitor comes with 2 adjustable alarm set-points that can connect to a horn/strobe, exhaust fans, multi-channel controller, remote display, or into building systems. Alarm signals also can tie into automatic shut-off valves when gas levels reach an unsafe OSHA threshold.

Easy To Use

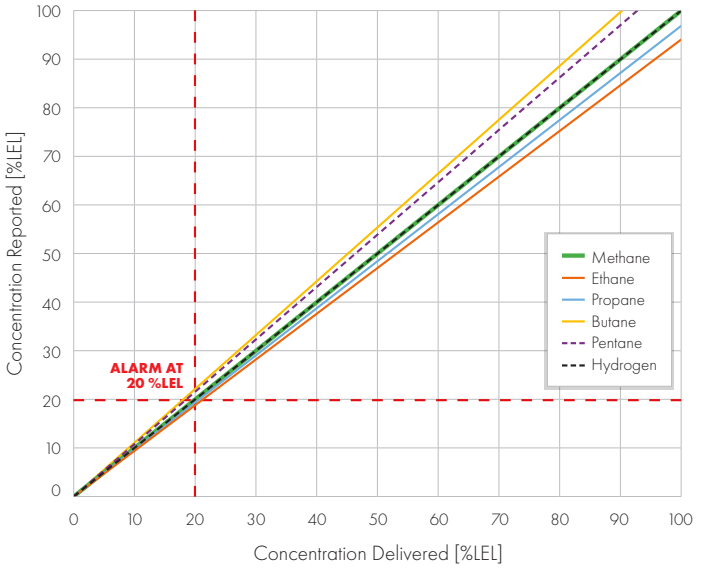
The MPS LEL Combustible Gas Monitor provides constant monitoring with no adjustments for 15+ years, saving you time and money while allowing the monitor to operate seamlessly.

TRUELEL: ACCURATE MEASUREMENT OF OVER A DOZEN GASES. NO CALIBRATION. NO CORRECTION FACTORS.

Gas	Detection Range	Accuracy*
Butane C_4H_{10}	0-100 %LEL	±5 %LEL
Ethane C_2H_6	0-100 %LEL	±5 %LEL
Hydrogen H^2	0-100 %LEL	±5 %LEL
Isobutane $HC(CH^3)^3$	0-100 %LEL	±5 %LEL
Isobutylene C_4H_8	0-100 %LEL	±5 %LEL
Isopropanol C_3H_{80}	0-100 %LEL	±10 %LEL
Methane CH^4	**0-100 %LEL**	**±3 %LEL**
Methyl ethyl ketone C_4H_{80}	0-100 %LEL	±5 %LEL
Octane C_8H_{18}	0-100 %LEL	±5 %LEL
Pentane C_5H_{12}	0-100 %LEL	±5 %LEL
Propane C_3H_8	0-100 %LEL	±5 %LEL
Propylene C_3H_6	0-100 %LEL	±5 %LEL
Toluene C_7H_8	0-100 %LEL	±12 %LEL
Xylene C_8H_{10}	0-100 %LEL	±12 %LEL

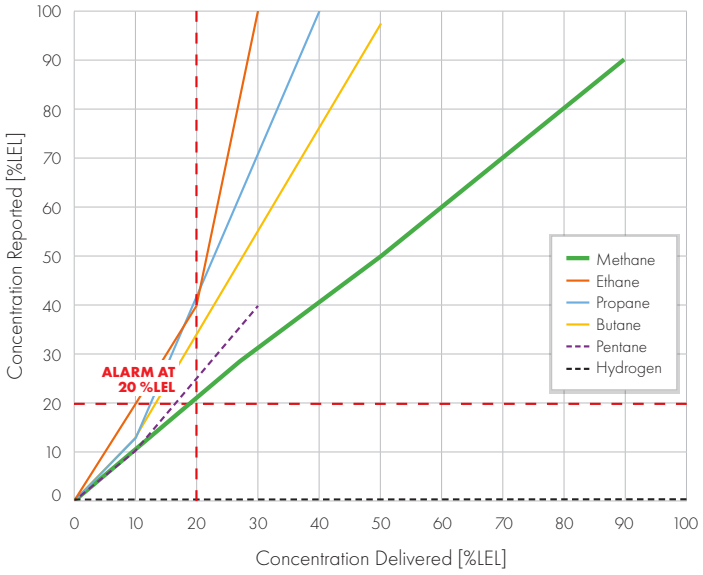
*The MPS Flammable Gas Sensor has detection capability for many flammable gases.
Contact us for more details.

MPS™ Delivering TrueLEL™
(Alarms accurately)

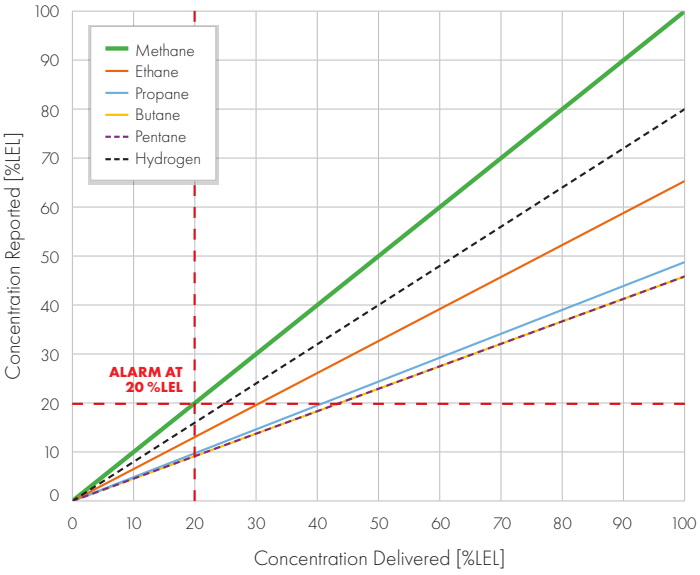


MPS VS. LEGACY SENSOR TECHNOLOGY

NDIR
(Over reports, alarms too early)



Pellistor
(Under reports, alarms too late)



PureAire monitoring systems, inc.
1-888-788-8050
info@pureaire.net
pureairemonitoring.com
1140 Ensell Road
Lake Zurich, IL 60047
1-847-726-6000

Revision Date: 6/3/2025