

ACCURATELY MEASURES OVER 14 COMBUSTIBLE GASES, NO CALIBRATION REQUIRED

The MPS™ Series Gas Transmitter by Gastronics, Inc. is the next generation of gas detection and quantification for worker safety and leak detection in drilling, transportation, and production of oil and gas and chemical products. The smart sensor technology, with built-in environmental compensation for temperature, pressure, and humidity can detect and quantify most hydrocarbon gases. Gas concentration readings are accurate across the full environmental range including rapid environmental transients, delivering best-in-class accuracy with no false positives.

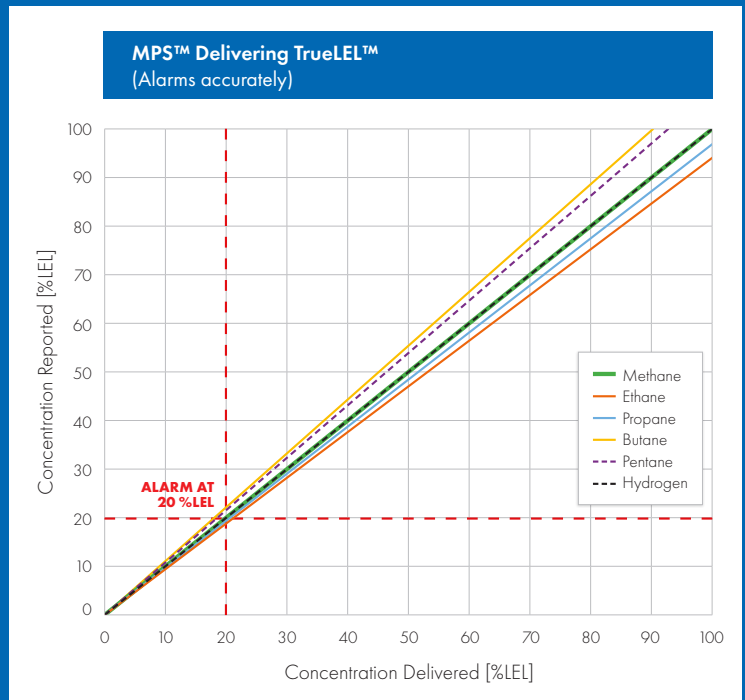
The MPS Gas Detector is constructed with the Molecular Property Spectrometer gas sensor which simultaneously monitors multiple gases with a single sensor providing a quick and accurate indication of the level of combustible gases faster than traditional sensors. The MPS sensor can report 0–100% LEL for up to 14 gases (and most other hydrocarbons) with great accuracy: a feature known as ‘TrueLEL™’. In contrast, Pellistor and NDIR sensor technology are only accurate to the one gas they are calibrated to and incidental readings of other gases can be highly misleading.



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

Gas	Detection Range	Accuracy*
Butane C ₄ H ₁₀	0-100 %LEL	±5 %LEL
Ethane C ₂ H 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 ₄ H ₈	0-100 %LEL	±5 %LEL
Isopropanol C ₃ H ₈ O	0-100 %LEL	±10 %LEL
Methane CH₄	0-100 %LEL	±3 %LEL
Methyl ethyl ketone C ₄ H ₈ O	0-100 %LEL	±5 %LEL
Octane C ₈ H ₁₈	0-100 %LEL	±5 %LEL
Pentane C ₅ H ₁₂	0-100 %LEL	±5 %LEL
Propane C ₃ H ₈	0-100 %LEL	±5 %LEL
Propylene C ₃ H ₆	0-100 %LEL	±5 %LEL
Toluene C ₇ H ₈	0-100 %LEL	±12 %LEL
Xylene C ₈ H ₁₀	0-100 %LEL	±12 %LEL

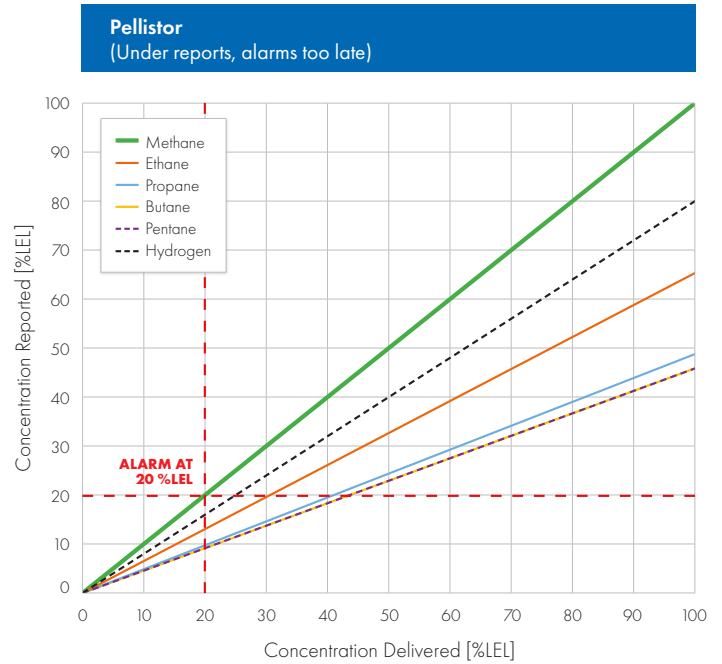
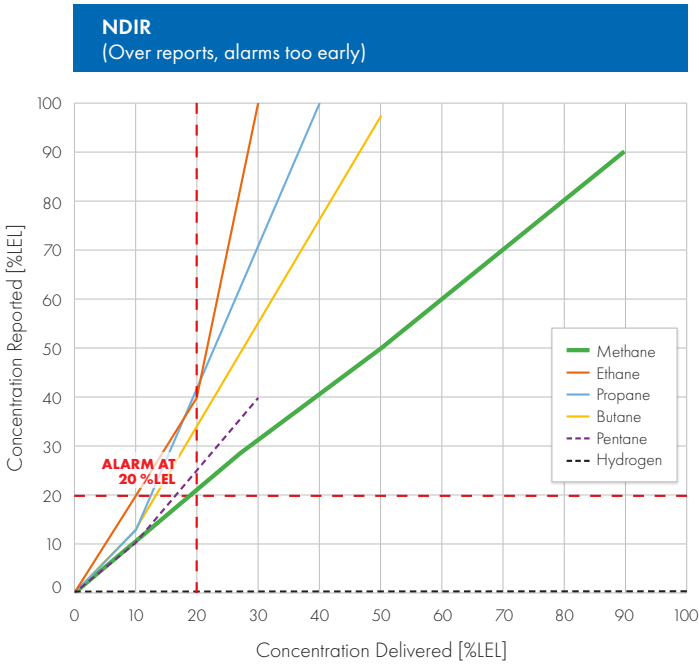
*The MPS Flammable Gas Sensor has detection capability for many flammable gases. Contact us for more details.



FEATURES

- Graphic OLED display
- Hart® compatible
- Bluetooth connectivity
- Durable XP housing; Certified for hazardous locations
- Haz Loc certified
- Data-logging with real time clock
- 30 minute historical graph display
- TrueLEL™ reading for multiple flammable gases with a single sensor
- No calibration during sensor’s 5+ year life
- Self monitoring sensor
- Immune to poisoning
- No drift, false alarms are a thing of the past

MPS VS. LEGACY SENSOR TECHNOLOGY



MPS™ SERIES GAS TRANSMITTER SPECIFICATIONS

MPS Gas Detector	Specifications
Main Enclosure:	Powder Coated Aluminum, Type-4X, Explosion Proof
Dimensions:	4.0"W x 4.5"L x 4.2"T (Approximate)
Display:	Graphic OLED (-40°C to 70°C)
Mounting Options:	Mounting tabs, 2 x 07mm Bolt Size
Input Voltage:	11-28 VDC
Electrical Output:	4-20mA, 3-Wire / RS485 Modbus Protocol
Relays:	Triple Relay Slave board (optional)
Datalogging:	1Mbit Storage with Real Time Clock
Max Current Draw:	115mA @24VDC
HART® Compatible:	Yes
Cable Entry:	3/4" NPT and M20
Wireless:	Bluetooth with Gastronics Smartphone Gastrac™ App
Humidity:	0 to 100% RH, condensing
Approvals:	Class I & II, Division 1, Groups B,C,D,F,G. Cert.to CAN/CSA STd.C22.2 No. 30 & 157, T5, Type 4X/IP66 ATEX+ - Ex d IIB II 2 G IECEx* db IIB+H2 T5 Gb Tamb* -40°C to 65°C

MPS Sensor	Specifications
Sensor Input:	Molecular Property Spectrometer
Range:	0-100% LEL
Response Time:	T-90 , < 20 Seconds (Methane)
Operating Humidity:	0% to 100% RH Condensing
Operating Temperature:	-40°C to +75°C
Sampling Method:	Diffusion
Calibration:	No calibration required
Lifetime:	5+ Years
Factory Warranty:	2 Years: See details on Gastronics Warranty Certificate

