

LEL-MPS GAS SENSOR

**DOOLEY TACKABERRY**

**When your workers' lives are at stake, accuracy matters.**



**FINALLY, A FLAMMABLE GAS SENSOR THAT DOES IT ALL.** Say hello to accurate readings across multiple gases, automatic gas classification and direct-to-cloud data streaming.

Blackline Safety and NevadaNano have partnered to add the Molecular Property Spectrometer (MPS™) sensor to the G7 line of connected safety monitors. Delivering TrueLEL™, MPS is the most accurate combustible gas sensor on the market, delivering high accuracy for a dozen combustible gases — including hydrogen — while eliminating issues with traditional sensors.

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- Accurate readings without correction factors
- 5+ year lifetime
- Immune to poisoning
- Fail-safe and self-diagnostic
- No more false alarms

## MOST ACCURATE LEL SENSOR.

Unlike traditional sensors that are accurate to one gas, G7 wearables linearly and accurately detect the TrueLEL™ — the true lower explosive limit of individual gases and mixtures when equipped with the MPS sensor. This includes guaranteed accuracy across these 12 gases:

- Hydrogen
- Methane
- Ethane
- Propane
- Butane
- Pentane
- Hexane
- Toluene
- Xylene
- Ethylene
- Propylene
- Isopropanol

Contact us for information on detecting other gases.

## AUTOMATED GAS CLASSIFICATION.

In addition to the MPS sensor accurately detecting multiple gases at once, it automatically classifies them into one of six gas categories. All data streams directly to the cloud for industry-leading data analytics, providing visibility into your worksite like never before. In contrast, conventional LEL sensors can accurately detect only a single gas that they were calibrated for, delivering inaccurate readings when exposed to other gases.

### CLASS 1: Hydrogen

Carbons Present: 0



### CLASS 2: Hydrogen Mixture

Carbons Present: Varies



### CLASS 3: Methane/Natural Gas

Carbons Present: Typically 1 - 2



### CLASS 4: Light Gas (or Light Gas Mixture)

Carbons Present: Typically 2 - 3  
Likely Gases: Ethane, Propane, Butane, Isopropanol



### CLASS 5: Medium Gas (or Medium Gas Mixture)

Carbons Present: Typically 3 - 7  
Likely Gases: Pentane, Hexane



### CLASS 6: Heavy Gas (or Heavy Gas Mixture)

Carbons Present: Typically 7+  
Likely Gases: Toluene, Eylene (aromatic hydrocarbons)



## YOUR EMPLOYEES HAVE NEVER BEEN THIS SAFE.

With the MPS sensor, your employees will have the most accurate and comprehensive view of the safety of their surroundings. The MPS sensor provides the most accurate reading for twelve combustible gases simultaneously, without the need for any correction factors.

Immune to poisoning (including silicones), the MPS sensor refuses to be compromised. And, if for any reason the sensor isn't functioning properly, it's built-in fail-safe design will alert the user. Your workers will never unknowingly be vulnerable in a hazardous environment again.

## DEFYING CONVENTION.

Conventional LEL sensors just don't match up. With the MPS sensor, you simply don't have to worry about false readings or the safety of your team.

Sensor Comparison	MPS	Pellistor	NDIR
Responds to full range of common gases	Yes	Yes	No
Accurately measures more than one gas	Yes (12 gases)	No	No
Classifies measured gases according to hydrogen and average hydrocarbon weight	Yes (places gases or mixtures into one of six classes)	No	No
Auto-calibration to full range of gases	Yes	No	No
Gas classification	Yes	No	No
Environmental range	Excellent	Excellent	Good
Poison Immune (including silicones)	Yes	No	Yes
Calibration interval	Excellent (1 yr)	Poor (0.25 yr)	Good (0.5 yr)
Lifetime	Excellent (5+ yr)	Poor	Excellent (5 yr)
Power consumption	Excellent	Poor	Poor to excellent
Response time	Good/excellent	Good/excellent	Good/excellent
Fail-safe, self diagnostic capability	Yes	No	Yes

## LESS DOWN TIME. MORE GO TIME.

The MPS sensor has built-in environmental compensation and doesn't need a correction factor, meaning your employees will never be interrupted by unnecessary false alarms again.

It's long lifespan also ensures your workers can confidently use this sensor for years at a time, cutting through any learning curves.

To learn more about the safest combustible gas detector on the market, contact **Blackline Safety** today.

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