

enLink MPS

LoRaWAN® Flammable Gas Monitor



Synetica's enLink MPS is a next-generation flammable gas monitor, delivering accurate, real-time detection of a wide range of flammable gases in a single device. Combining long-term stability with rapid response times, the enLink MPS ensures early warning and reliable protection in safety-critical environments.

Unlike traditional gas detection technologies, enLink MPS monitors multiple gases with a single sensor, requires no recalibration over its lifetime, maintains accuracy across the full range of temperature and humidity conditions, and is immune to poisoning and degradation. This makes it a low-maintenance, cost-effective, and highly reliable solution for flammable gas monitoring for safety-sensitive industries.

Designed and manufactured in the UK, the enLink MPS provides over a decade of dependable sensor life, high sensitivity, and the unique ability to classify gas types automatically, giving users both confidence and clarity when it matters most.

Applications



Industrial safety and process monitoring



Utilities and energy infrastructure



Facilities management and building safety



Smart building and IoT integration



Research, laboratories, and test facilities



Public infrastructure projects

Key Features



Multi-gas detection. Detects up to 14 flammable gases including Hydrogen, Methane, Propane, Butane, Ethane, Pentane, Isobutane, Isobutylene, Isopropanol, Propylene, Toluene and Xylene.



Automatic gas classification. Identifies the type of gas present, from hydrogen to heavy hydrocarbons.



No recalibration required. Zero field calibration needed during sensor life.



10 YEARS +

Long-term stability. 10+ years of sensor life with immunity to poisoning.



Built-in self-test for fail-safe operation.



Wide operating range. Performs reliably from -20°C to +50°C and up to 100% relative humidity (non-condensing).



Fast response, high sensitivity. T90 under 20 seconds; resolution of 0.1% lower explosive limit for early warning.



Resilient performance. Accurate readings regardless of environmental fluctuations.



LoRaWAN® wireless. Long-range data transmission up to 16 km outdoors, 1–2 km indoors without repeaters.

About Synetica

For over 15 years, Synetica has been engineering precision monitoring technologies that enable organisations to meet compliance standards, improve safety, and protect valuable assets. Our solutions are trusted across diverse industries, from commercial property and facilities management, through to energy, utilities, and large-scale infrastructure projects.

With the launch of the enLink MPS, we extend our proven expertise into the field of flammable gas detection, delivering a solution that combines cutting-edge sensor science with robust, field-tested engineering. The monitor is designed for exceptional accuracy and versatility, while maintaining low maintenance requirements and long-term cost-effectiveness.

Compact yet powerful, the MPS sensor monitors temperature, humidity, VOCs, and flammable gases, the key parameters for precise gas detection, providing reliable, high-performance results in a compact, space-efficient design.

A key feature of the enLink MPS is its built-in self-test capability, which ensures fail-safe operation. The system continuously verifies sensor integrity and performance, automatically identifying any malfunction, degradation, or drift. This intelligent self-diagnostic functionality provides early warnings of potential issues, guaranteeing accurate readings without the need for frequent manual calibration. The result is enhanced operational safety, reduced downtime, and complete confidence in mission-critical environments.

Synetica's monitoring solutions integrate seamlessly with smart technology platforms and green building systems, helping organisations achieve their safety, sustainability, and compliance goals. Whether deployed for industrial safety, energy sector monitoring, or smart infrastructure, the enLink MPS sets a new benchmark in reliable, next-generation flammable gas detection.

Our engineering team works closely with customers to develop tailored solutions that meet precise operational requirements, ensuring every deployment benefits from the highest levels of precision, reliability, and ease of integration.

Specifications

Temperature	Accuracy: $\pm 0.2^{\circ}\text{C}$ (typical) Range: -20°C to $+50^{\circ}\text{C}$
Humidity	Accuracy: $\pm 1.8\%$ RH (typical) Range: 0 – 100% RH (non-condensing)
VOC's	VOC IAQ Index and ppm (bVOC) Range: 0 – 500 IAQ
Butane	0-100% LEL Accuracy $\pm 5\%$ LEL
Ethane	0-100% LEL Accuracy $\pm 5\%$ LEL
Hydrogen	0-100% LEL Accuracy $\pm 5\%$ LEL
Isobutane	0-100% LEL Accuracy $\pm 5\%$ LEL
Isobutane	0-100% LEL Accuracy $\pm 5\%$ LEL
Isobutylene	0-100% LEL Accuracy $\pm 6\%$ LEL
isopropanol	0-100% LEL Accuracy $\pm 10\%$ LEL
Methane	0-100% LEL Accuracy $\pm 3\%$ LEL
Pentane	0-100% LEL Accuracy $\pm 7\%$ LEL
Propane	0-100% LEL Accuracy $\pm 7\%$ LEL
Propylene	0-100% LEL Accuracy $\pm 6\%$ LEL
Toluene	0-100% LEL Accuracy $\pm 12\%$ LEL
Xylene	0-100% LEL Accuracy $\pm 12\%$ LEL

*Accuracy specified for 0-50% LEL

**Important Safety Notice: Not for use in ATEX hazardous areas.
For Use In Non-hazardous (Safe) Areas Only.

Synetica. Engineering air safety, energy efficiency, and environmental intelligence since 2008.

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