
PRESS RELEASE

MGS Technology to Showcase Next-Generation Ultra-Low Power Gas Sensors at SENSOR+TEST 2025

MGS Technology, a global leader in **ultra-low power NDIR gas sensors**, will present its latest innovations at **SENSOR+TEST 2025**, the premier international trade fair for sensor, measurement, and testing technologies.

At **Hall 1, Stand 1-113**, MGS Technology will introduce the **MIPEX-1S**, a next-generation sensor designed for **high-precision detection of methane (CH₄), propane (C₃H₈), and carbon dioxide (CO₂)**. With its **ultra-low power consumption**, compact design, and advanced measurement capabilities, the MIPEX-1S sets a new industry standard for portable and battery-powered gas detection devices.

MIPEX-1S: Precision and Efficiency in a Compact Form Factor

The MIPEX-1S is an **LED-based dual-wavelength infrared gas sensor** optimized for **continuous monitoring in hazardous atmospheres**. It combines **high accuracy, fast response time, and ultra-low power consumption** to ensure reliable gas detection in industrial and commercial applications.

Key Features:

- **Ultra-low power consumption** – operates at just **0.2 mW**, making it ideal for battery-powered gas detectors.
- **High-precision measurement** – detects CH₄, C₃H₈, and CO₂ with **±0.1% vol. accuracy** for methane.
- **Fast response time (T90):**
 - **Without filter:** 10 sec for CH₄, C₃H₈, 15 sec for CO₂
 - **With filter:** 20 sec for CH₄, C₃H₈, 30 sec for CO₂
- **Integrated microcontroller** – ensures **temperature-compensated and linearized output**.
- **Compact and lightweight** – only **10 mm in height**, perfect for **small-sized and portable gas analyzers**.
- **Extended lifespan** – designed for **10+ years of operation**.

Designed for the Future of Gas Detection

The MIPEX-1S is built to power the next generation of **compact, high-performance gas analyzers**, providing unparalleled energy efficiency without compromising measurement accuracy. It is ideal for applications in **industrial safety, portable gas monitors, smart home gas detection, and wireless safety solutions**.

Join us at **SENSOR+TEST 2025, Hall 1, Stand 1-113**, to explore how **MIPEX sensors** are revolutionizing gas detection with unmatched power efficiency and precision.

For more information, visit www.mgs-technology.com or contact sales@mgs-technology.com.