

Tunable diode laser absorption spectroscopy (TDLAS) is one of the most sensitive and selective technologies used for measuring specific gases (methane, O₂, CO, NH₃.etc) by the characteristic of tunable laser source with narrow linewidth and tenability.

The CH₄ gas sensor developed by Senovol Corporation utilizes TDLAS to achieve accurate and reliable measurement of specific methane. Our product incorporates a laser, photodetector (PD), and gas cell in a miniaturized integrated package, ensuring high precision, stability, and reliability.

Product Dimensions



Highlights

1. **Selective Measurement:** Highly selective measurements specifically target methane gas by narrow absorbing spectrum, minimizing false readings from other gases or environmental factors.
2. **Enhanced Measuring Precision and Stability:** Offers exceptional precision and stability in measurements by laser technology. Ensures accurate and reliable results.
3. **Long Lifespan:** With a solid-state design and minimal maintenance requirements, this sensor offers a long lifespan, reducing the need for frequent replacements and associated costs.
4. **Low Maintenance:** The solid-state design eliminates the need for calibration, reducing maintenance requirements and saving time and resources.
5. **Humidity Interference-Free:** This sensor is designed to operate without interference from humidity, ensuring accurate methane detection.
6. **Optimal Optical Path Efficiency:** Achieves high absorption efficiency in the optical path. Maximizes the utilization of light for improved performance.

Performances

