

Greenhouse Gas Continuous Monitoring Concept Solution - Gasboard 3002



CH₄

CH₄

CH₄

Tunable Diode Laser Absorption Spectroscopy (TDLAS)

Features

- Excellent quantitative continuous emission monitoring
- Superior accuracy and sensitivity
- Outstanding performance at hazard environment
- Flexible customized wireless communication
- Smart power consumption management
- Scalable wind direction and speed sensing unit
- Long lifetime over 10 years

Description

Cubic Gasboard-3002 is a state-of-the-art methane sensing concept solution for continuous methane emissions monitoring. The concept would adopt Cubic's advanced Tunable Diode Laser Absorption Spectroscopy (TDLAS) technology with superior methane selectivity, ultra-high resolution, and the most reliable optical platform.

Due to its smart algorithm mechanism to fulfill flexible temperature and humidity compensation, Gasboard-3002 enables detection unit well adapt to variable outdoor environmental factor impact such as condensation, dusty and extreme weather. Furthermore, extended with wind direction and speed sensor, Gasboard-3002 captures real-time complete weather information for leak traceability.

Gasboard-3002 could be quickly and easily deployed on site as fixed point monitor. Its integrated solar panel with built-in battery, intelligent power consumption management, and scalable wireless communication module, make Gasboard-3002 self-sustaining and perfect for field remote sensing scenarios.

Cubic innovative and robust Gasboard-3002 enables credible and reliable quantitative continuous methane emissions monitoring for oil and gas industry.

Specifications

Target Gas	Methane (CH ₄)
Working Principle	Tunable Diode Laser Absorption Spectroscopy (TDLAS)
Measurement Range	0~1000ppm
Accuracy	±5ppm+2%of reading
Resolution	0.1ppm
Detection Limit	1ppm
Warm-up	T ₉₀ <10s
Working Temperature	-20°C~60°C
Working Humidity	0~95%RH (non-condensing)
Working Pressure	86kPa~106kPa
Power Supply	Solar panel with battery
Communication Mode	LoraWan (other 4G/GSM optional)
IP Grade	IP66
Design Lifetime	10 years

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