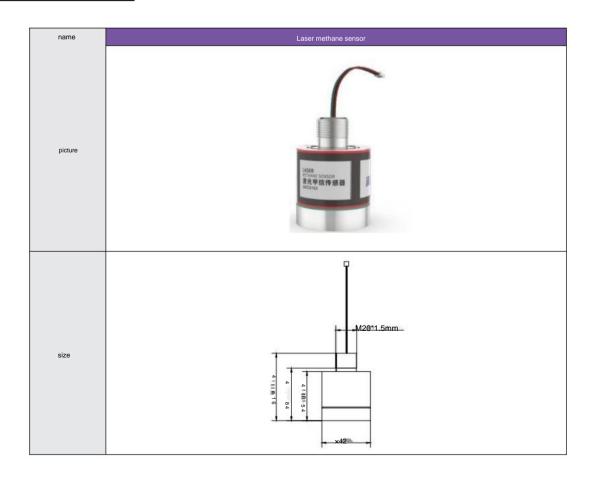
Laser methane sensor

The GD4100-JD laser methane sensor uses a completely self-developed laser and photodetector as the core components, combined with a high-precision temperature control algorithm, concentration inversion algorithm and temperature compensation algorithm to achieve accurate measurement of methane concentration. The product is based on tunable laser gas absorption spectroscopy technology (TD-LAS), and the multi-reflection optical path structure is designed internally, with a long absorption optical path and high detection sensitivity. The standard threaded mounting interface and stainless steel structure design meet the explosion-proof requirements, which is convenient for customers to quickly integrate products, and can be widely used in underground space, the catering industry, the industrial chemical industry and coal mining, among other fields.

Product Features

Strong anti-interference	High detection accuracy
Methane "fingerprint spectrum" laser absorption detection technology, anti-poisoning, anti-water vapor and other	Direct and wavelength modulation technology combined with folded optical path design, measurement error ±6% true
Other gas interference;	Value @25 ;
Good adaptability to the environment	Strong structural protection
Wide temperature compensation correction algorithm, can	\tilde{y} Stainless steel material design, meets the explosion-proof grade Exia IIC T6 Ga;
meet -40 ~+70 application;	
Low cost of use	

Long service life, low power consumption, modular design, easy integration. **Product Appearance**



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Technical specifications

GD4100-JD--3.3V GD4100-JD-5V Product Methane Model Measurement TD-LAS Gas Detection Diffusion Principle Detection 0-20%VOL Technical Parameters Method ±0.06%VOL,O-1%VOL Measurement Range Measurement Error @25 ±6% true value, 1-20% VOL 0.2%VOL Detection limitMinimum 0.01%VOL T90<20s resolutionResponse Ex ia IIC T6 Ga timeExplosion-3.3VDC 5VDC Working Parameters proof levelWorking <200mW <250mW voltageWorking Standard TTL power -40 ~+70 consumptionOutput 0~95%RH(non-condensing) modeWorking 200g temperatureWorking Weight and size Medium 42mm×61.4mm humidityProduct weightProduct dimensions

The working power consumption is measured at an ambient temperature of 25°C and standard atmospheric pressure.

Product application scenarios

This product can be used as the core component of methane gas detection instruments or equipment to realize methane gas leakage detection and alarm.