



# AG-6-CH4-2822-A

## LASER METHANE SENSOR

*Advanced series*



### Features

- ✓ Strong anti-interference
- ✓ Great versatility
- ✓ High detection accuracy
- ✓ High environmental adaptation
- ✓ Anti-poisoning, long-life
- ✓ Calibration-free

### Description

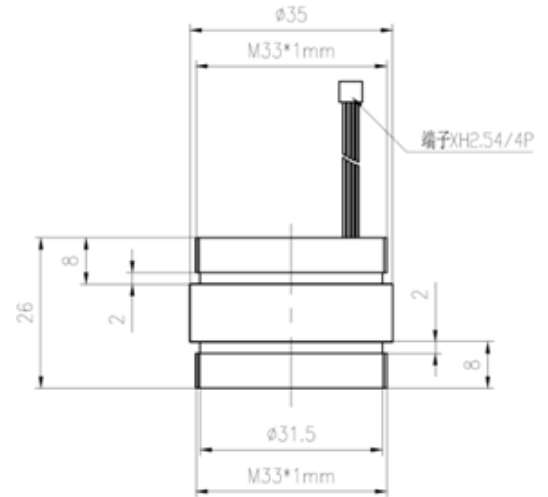
AG-6-CH4-2822 laser methane sensor is developed based on tunable laser gas absorption spectroscopy (TD-LAS). According to the absorption characteristics of methane gas molecules to 1653.7nm infrared "fingerprint spectrum", the concentration of methane gas is detected by direct absorption spectroscopy. The sensor adopts folding optical path structure design, long absorption path, high detection sensitivity and accuracy, and resistance to water vapor and other gas interference; At the same time, the laser and photodetector devices with excellent low temperature performance combined with the wide temperature compensation correction algorithm have strong environmental applicability. Standard thread mounting interface and standard communication protocol design, strong versatility; As the core component of methane gas detector/monitor, this product is widely used in methane gas leakage detection and alarm machine in underground space, catering industry, industrial chemical industry and coal mine.



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### Technical Specification

Measuring Range	0-20% VOL (CH <sub>4</sub> )
Response Time (T90)	<15s
Measurement Error	< ±0.05VOL (0-1% VOL) < ±5% VOL (1-20% VOL)
Limit of Detection	0.30% VOL
Operating Voltage	3.0VDC to 3.6VDC
Operating Current (Average)	< 35mA
Peak Current	< 110mA
Output Type	3.3V TTL level UART
Temperature Range	-20 - 60°C (Operating) -40 - 60°C (Storage)
Humidity Range	0-95% RH non-condensing
Weight	90g
Warranty	18 months
Explosion Proof	Ex ia IIC T6 Ga
IP Rating	IP 66



### IMPORTANT NOTICE

The sensors contain precision optical components, please avoid severe impact. The operating voltage of the sensor is 3.3V. It is forbidden to supply more than 3.6VDC to the sensor in order to avoid damaging the sensor.

Under normal operating conditions, the sensor is warranted to be free of defects in material and workmanship for the specified period provided the sensor is properly installed and operated. The sole remedy for a sensor determined to be defective by *ApolloSense Ltd* is limited to replacing the sensor. *ApolloSense Ltd* will not be liable for the buyer's negligence, misapplication, abuse, or accident.