

AG-6-CH4-H8012-L

LASER METHANE SENSOR

Home series



Features

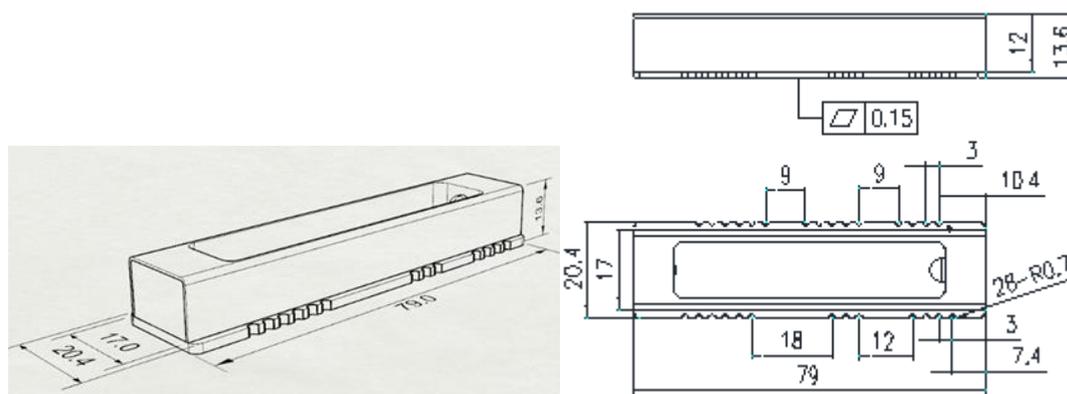
- ✓ Strong anti-interference
- ✓ High detection accuracy
- ✓ High environmental adaptation
- ✓ Long life ≥ 10 years
- ✓ Calibration-free

Description

AG-6-CH4-H8012 methane sensor adopts self-developed laser and photodetector core devices, combined with stable temperature control algorithms, concentration inversion algorithms and temperature compensation algorithms to achieve accurate measurement of methane concentration; the product is based on the Tunable Laser Absorption Spectroscopy (TD-LAS) technology, the internal structure of the light path is simple and reliable, and it can be used as the core device of the combustible gas detector products, which is mainly used in home kitchen scenes.

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.

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Technical Specification

Measuring Range	0-100%LEL (CH ₄)
Response Time(T90)	< 20s
Measurement Error	< ±3%LEL
Operating Voltage	3.0VDC to 3.6VDC
Power Consumption	< 300mW (24°C) < 550mW (High and Low Temperature)
Output Type	3.3V TTL level UART
Temperature Range	-10 - 55°C (Operating)
Humidity Range	0-95% RH non-condensing
Weight	20g
Expected Life	10 years
Recommended Storage	24 months

IMPORTANT NOTICE

1. The plastic housing and the laser and detector can be wiped with anhydrous ethanol during the production welding process. Do not cover the laser and detector lenses with lacquer, adhesive, etc.
2. The sensors are dispatched in sealed vacuum trays with Moisture Sensitivity Levels (MSL) set at 3.
3. In the event of well-sealed packaging (temperature below 40°C, humidity below 90% RH), weldability can be guaranteed for a period of 12 months. It is essential to unpack within 168 hours at an ambient temperature below 30°C and relative humidity below 60% for the assembly process. Failure to meet these conditions necessitates the use of a tray for baking at 60 ± 5°C with humidity maintained at or below 60% RH for a duration of 48 hours.