

# GJG100J (A) High-concentration Laser Methane Sensor for Coal Mines

## Application:

GJG100J (A) high-concentration laser methane sensor for coal mines adopts the laser absorption spectroscopy technology. It is a high-performance methane monitoring instrument with accurate measurement, long calibration cycle, and no interference from water vapor and other mixed gases. It is mainly used in coal mines and other places where methane concentration needs to be monitored.

## Features:

- The detection module is packaged independently which can be disassembled and replaced as a whole;
- The module has temperature adaptation and compensation function. The measurement results will not be affected by the ambient temperature;
- The module has pressure compensation function. The measurement results will not be affected by the ambient pressure;
- Local 5-digit red digital display, with a sound and light alarm;
- Support frequency, RS485 and CAN signal transmission.

## Technical parameters:

- Technical Specifications:
- Measuring range: 0.00%~100%
- Measuring deviation: 0.00%~1.00%, ±0.05% CH<sub>4</sub>;  
1.00%~100.0%, ±5% of true value
- Response time T90: ≤25s
- Power: (9~24) V DC
- Alarm type: sound and light alarm, red alarm light visible at 20 meters in dark environment and sound alarm of 80 dB at 1 meter
- Display resolution: 0.01% CH<sub>4</sub>
- Transmitting distance: more than 2km
- Working ambient: temperature: (-10~50) °C  
humidity: (15~95)% RH  
atmosphere pressure: (20~130) kPa
- Explosion-proof type: mining intrinsically safe (Ex-mark: Exia | Ma)

