

CGWZ-100W Wireless Laser Multiparameter Methane Analyzer for Pipeline



Application:

Precision instruments for monitoring parameters such as gas flow, methane concentration, carbon monoxide concentration, pressure and temperature in mine gas extraction pipelines. The combination of low power consumption and wireless communication technology can realize wireless real-time transmission of downhole monitoring data.



Features:

- The tester can display the instantaneous amount of flow rate, flow rate, methane concentration, carbon monoxide, pressure and temperature and other parameters on a single screen, and can also display the cumulative amount of mixing and pure amount over a certain period of time;
- The tester adopts cyclic self-excited flow detection technology, wide measuring range, low measurement limit (flow rate 0.20 m/s), strong anti-fouling ability, good environmental adaptability, and is not affected by the gas components in the pipeline;
- The methane concentration of the tester adopts the principle of laser measurement, which is not disturbed by water vapor and other impurity gases, and the measurement has a pressure compensation function, which can accurately measure the methane concentration in a high negative pressure environment;
- The components of the tester have backup power supply, and they can be measured normally when the power is abnormally off on site;
- The tester has RS485, wireless communication and other functions, which can realize wireless ad hoc networking;
- Protection class: Ip65.

Technical parameters:

Velocity of Flow	(0.20~30.00)m/s (±1% FS)
Flow Rate	(2.36~353.43)m ³ /min (±1% FS)
Absolute Pressure	(10.0~200.0)kPa (±1 kPa)
Temperature	(-10.0~200.0)°C (±1 °C)
CH ₄	(0.00 ~ 1.00)% CH ₄ ±0.05%CH ₄ (>1.00~100)% CH ₄ ±5%CH ₄ of the measured value
CO	(0~100)×10 ⁻⁶ :±4×10 ⁻⁶ CO (>100~500)×10 ⁻⁶ : ±5.0% of measured value (>500~2000)×10 ⁻⁶ : ±6.0% of measured value