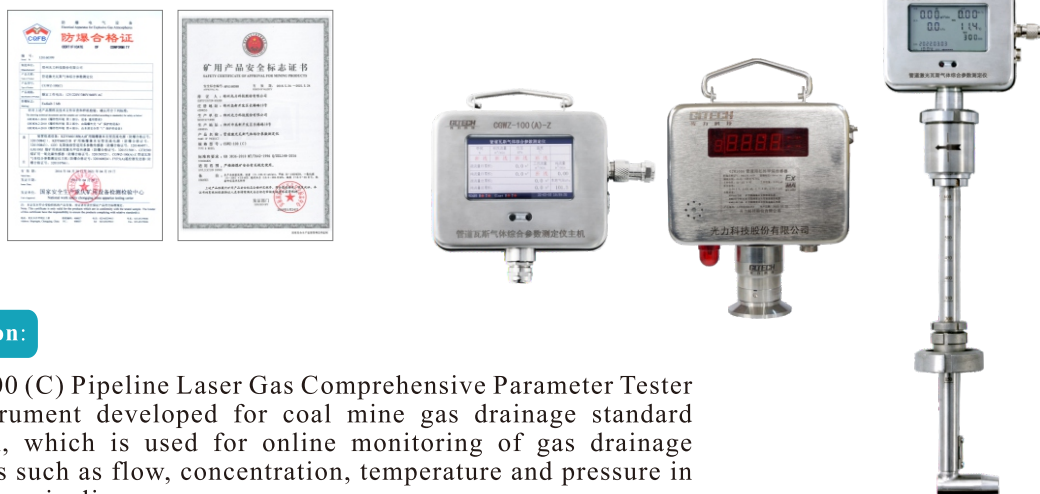


# CGWZ-100 (C) Pipeline Laser Gas Comprehensive Parameter Tester



## Application:

CGWZ-100 (C) Pipeline Laser Gas Comprehensive Parameter Tester is an instrument developed for coal mine gas drainage standard evaluation, which is used for online monitoring of gas drainage parameters such as flow, concentration, temperature and pressure in gas drainage pipelines.

## Features:

- Based on the principle of laser measurement, methane sensor is free of interference from water vapor, ethane and other impurity gases. It is accurate and stable, and the calibration period is more than 12 months.
- It uses the circulating self-excited flow detection technology, with wide range and low lower-limit, and can accurately measure parameters even at a flow rate as low as 1m/s.
- The tester uses an inserting installation structure without creating any resistance. One instrument is suitable for a variety of pipe sizes and can be verified in a wind tunnel.
- The tester can simultaneously display the instantaneous quantity of flow, concentration, temperature, and pressure in a single screen, and can also display the accumulative quantity of mixed gas quantity and methane quantity in a certain period.
- The tester has the function of measuring the ambient atmospheric pressure and can accurately switch between the absolute pressure and negative pressure without manual setting.
- A single flowmeter simultaneously measures pipeline gas flow, negative pressure and temperature parameters, and has the function of outputting and measuring of standard condition and working condition.

## Technical parameters:

- Flow: (0.0~100.0) m<sup>3</sup>/min(±1.5%FS)
- Methane: (0.0~ 100.0) %, ( 0.00~1.00) % CH<sub>4</sub> not more than ±0.04%CH<sub>4</sub>, (1.00~100.0) % CH<sub>4</sub> not more than ±4.0% of true value
- Absolute pressure: (10.0 ~ 200.0) kPa, not more than 0.75% FS
- Temperature: (-10.0~60.0) °C (±1.0°C )
- CO (optional): (0~100) × 10<sup>-6</sup>: ±4 × 10<sup>-6</sup>, ( >100~500) × 10<sup>-6</sup> ±5% of the measured value
- Power supply: 9V ~ 24V DC, intrinsically safe power supply
- Explosion-proof type: mining intrinsically safe