

# CJZ7 | CJZ70 Laser Gas Drainage Comprehensive Parameter Tester



## Application:

The CJZ7/CJZ70 gas extraction comprehensive parameter meter is a portable instrument designed for simultaneously measuring the drilling gas concentration, flow rate, negative pressure, temperature, CO, O<sub>2</sub> and CO<sub>2</sub>



## Features:

- ⊙ Using patented technology, gas concentration, flow rate, negative pressure, temperature, O<sub>2</sub>, CO, and CO<sub>2</sub> can be measured simultaneously. The seven measurements can be completed in 3 minutes
- ⊙ Added O<sub>2</sub>, CO, and CO<sub>2</sub> monitoring function can effectively warn potential self-ignition risk of coal seam
- ⊙ Proximity matching technology of drilling holes simplify the measurement operation and improve the measurement efficiency
- ⊙ Circulated sampling method inside gas gives fast measuring speed and shows the real situation in the gas pumping pipeline
- ⊙ The instrument uses high-purity light source modulation technology which gives good monochromaticity and can not be disturbed by other gas components and water vapor. It can detect the real gas concentration.
- ⊙ The instrument, verified thousands of times, has excellent waterproof and dust-proof ability. It has self-cleaning function which can resist the impact of slime inside drainage pipeline. Automatic drainage function guarantees no damage to and well-functioning of the sensor element under harsh conditions
- ⊙ Innovated highly secured energy saving power circuit
- ⊙ Passed the Exia I Ma (Explosion-proof) certification

## Technical parameters:

Flow rate: (0.040~1.600) m<sup>3</sup>/min DN50: ±1.5%FS  
 (0.090~3.600) m<sup>3</sup>/min DN75: ±1.5%FS,  
 CJZ7:(2.5~100.0) m<sup>3</sup>/min DN300: ±1.5%FS  
 CJZ70:(2.5~70.0) m<sup>3</sup>/min DN300: ±1.5%FS  
 CH<sub>4</sub> %:(0.00~1.00)% CH<sub>4</sub>: ±0.05%CH<sub>4</sub>, >(1.00~100.0)% CH<sub>4</sub>: ±5.00% of true value  
 Absolute pressure(kPa): (10.0~100.0) kPa: ±1.5%, >(100.0~200.0)kPa: ±1.5 kPa  
 Temperature (°C): (-10.0~+60.0) °C ±1.0°C  
 CO<sub>2</sub> %: (0.00~0.50)% CO<sub>2</sub>: ±0.1% CO<sub>2</sub>  
 (0.50~5.00)% CO<sub>2</sub>: ±(0.5+5% of true value)% CO<sub>2</sub>  
 CO (10-6 CO): (0~20)x10-6 CO: ±2x10-6 CO  
 >(20~100) x10-6 CO: ±4x10-6 CO  
 >(100~500) x10-6 CO: ±5% of measured value  
 >(500~1000) x10-6 CO: ±6% of measured value  
 O<sub>2</sub> %: (0~5)% O<sub>2</sub> ±0.5; (>5.0~25.0)% O<sub>2</sub> ±3% FS