

CI-PC96/961 Trace oxygen analyzer

CI-PC96/CI-PC961 is a micro-oxygen analyzer, which is an intelligent analyzer based on microprocessor. The sensor used in this system is a fuel cell oxygen sensor, which can measure 0-25% oxygen concentration, but in the environment of 0-1000ppm oxygen concentration, the measurement is the best.



// Product Features

- The new structure of the test chamber is adopted to facilitate the field replacement of the sensor;
- Over range protection function: when the oxygen concentration is higher than the protection value, the gas circuit will be cut off automatically, so as to avoid the sensor's performance and life being affected by the environment with high oxygen concentration for a long time.
- Pressure protection function: When the pressure in the test chamber exceeds the set range, the gas path will be cut off automatically to avoid the damage of the sensor due to too large or too small pressure.
- Pressure compensation function: compensate the oxygen concentration value according to the pressure in the test chamber, eliminate the influence of pressure on the oxygen concentration measured by the sensor, make the test more accurate and more accurate;
- Temperature compensation function: automatic temperature compensation, eliminating the influence of environmental temperature;
- Automatic Calibration Function: It has advanced automatic calibration function, and the calibration can be completed automatically after connecting with external calibration equipment.

// Technical Specifications

Measure range: 0~10/100/1000ppm/1%/25% O₂
 Sensor principle: fuel cell type
 Accuracy: 0.01~9.99ppm O₂: ±5% FS
 10.0~99.9ppm O₂: ±3% FS
 100~1000ppm O₂: ±2% FS
 Repeatability: 0.01~9.99ppm O₂: ±2.5% FS
 10.0~99.9ppm O₂: ±1.5% FS
 100~1000ppm O₂: ±1% FS
 Stability: 0.01~9.99ppm O₂: ±2.5% FS/7d
 10.0~99.9ppm O₂: ±1.5% FS/7d
 100~1000ppm O₂: ±1% FS/7d
 Response time: T₉₀<60s(25°C)
 Switch output: 2 sets, Relay contact point capacity: 24VDC, 0.2A
 Power supply: CI-PC96: 85~264VAC 50/60Hz
 CI-PC961: 24VDC, Power consumption less than 20VA
 Communication: RS485(standard)/RS232(standard)

// Technical Specifications

Environment temperature: 0~45°C Environment Humidity: <80%RH
 Sample gas pressure: atmospheric conditions ±10% (Gas outlet should be atmospheric conditions)
 Analyzer size: CI-PC96:
 L×W×D=144mm×144mm×251mm
 CI-PC961:
 L×W×D=144mm×144mm×190mm

// Applications

- Air separation;
- Gas production and testing;
- Protection gas detection in semiconductor industry;
- Protection gas detection in reflow/wave soldering;
- Gas detection in food production process;
- Gas detection in petrochemical process;
- Detection of oxygen concentration in inert gas and hydrocarbon gas, etc.

// Order Information

- Pneumatic connection mode: A, Φ6 hose (standard); B, connecting by using 1/4" Φ3 stainless steel cutting ferrule; C, connecting by using 1/8" Φ3 stainless steel cutting ferrule;
- Filter: CI-GF2800, AF2000;
- Pressure of the measured gas: positive pressure, micro pressure or negative pressure;
- The main components of the measured gas: whether it contains CO₂, H₂S, SO₂, NO_x, NH₃ and other gases.

// Instructions

- Sensor principle: please refer to page 2 of this sample book;
- Interference effects of various gases on measurement: please refer to page 15 of this sample book.

