PCM200-TCu Total Copper Online Analyzer



Measurement Principle

Dicyclohexanone Oxalyldihydrazone - Spectrophotometry

Main Features

Stable and Reliable Performance

- Unique photoelectric measurement algorithm, adaptable to various working conditions.
- High-precision photoelectric detection design, ensuring accurate and credible data.
- Integrated valve group and metering, reducing pipeline residue and improving precision.

Convenient Operation and Low Maintenance

- Compact integrated machine, easy to install and transport, suitable for unit integration.
- Waste liquid shunting, with extremely low waste liquid volume.
- Modular design, facilitating maintenance.

Rich Functions and Strong Customization

- Based on Linux system, facilitating secondary development.
- Equipped with automatic verification and calibration functions, with adjustable verification and calibration cycles as required.
- Default three-range automatic switching, expandable according to on-site needs.
- Self-diagnostic mechanisms including reagent shortage alarm, power-on self-test and fault warning.
- 7-inch color touch screen, capable of storing more than 5 years of historical data and 200,000 logs.
- Multiple communication methods such as 4-20mA, RS232 and RS485.

Typical Applications

- Pollution source discharge outlets
- Municipal sewage

Technical Specifications

Measurement Range	Three ranges (0-1mg/L, 0-2mg/L, 0-5mg/L) with automatic switching, expandable
Test Cycle	≤40 minutes
Repeatability Error	≤3%
Zero Drift	±5% F.S.

Span Drift	±5% F.S.
Lower Limit of Quantitation	≤0.1mg/L (indication error ±30%)
Linearity	±10%
MTBF	≥720 hours/time
Actual Water Sample Comparison Test	±10%
Voltage Stability	±10%
Memory Effect	±10%
Ion Interference	±15%
Monthly Reagent Consumption	Reagent 1, 2, 3: 500mL each