

WATER QUALITY MONITOR/ANALYZER

Liquid Analysis

HEAVY METAL ONLINE WATER QUALITY MONITOR - PCM200

Measurement & Monitoring



DESCRIPTION

The PCM200 Heavy Metal Water Quality Online Monitor delivers high-precision quantitative measurement with strong resistance to ionic interference, ensuring reliable performance in complex and harsh monitoring environments. Built with high-reliability key components and low reagent consumption, it supports environmentally friendly operation while significantly reducing operating and maintenance costs. The system features a 10-inch embedded TFT true-color touchscreen for intuitive operation, real-time instrument status display, and comprehensive process logging. It provides advanced data management, including automatic data saving during power loss, storage of raw data and operation logs for at least one year, and automatic recovery after abnormal reset or power restoration. With complete alarm functions (fault, over-range, over-limit, and reagent shortage) and three-level user access management, the PCM200 Heavy Metal model offers a robust, intelligent, and dependable solution for continuous online heavy metal water quality monitoring.

FEATURES

- ✓ Strong resistance to ionic interference
- ✓ Automatic fault diagnosis and alarm
- ✓ Automatic recovery after power interruption
- ✓ Communication Modbus RS-232, RS-485; output 4-20mA
- ✓ 10" TFT true-color touchscreen
- ✓ Data logging function

TECHNICAL FEATURES

Display	10" TFT true-color touchscreen
Measurement Mode	Continuous mode, periodic mode (adjustable from 1 hour to 30 days), fixed point mode, controlled mode, and manual mode are optional
Calibration	Manual calibration or automatic calibration
Maintenance Cycle	Once a month
Power Supply	220VAC±10%, 50HZ±10%
Output	4-20mA
Communication	Modbus RS-232, RS-485
Operating Conditions	Temperature adjustable room, recommended temperature +5-40°C Humidity ≤85% (no condensation)
Dimensions	302mm x 271mm x 462mm

I-SYSTEM MEASUREMENT
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01-2026 I-SYSTEM 511008

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PARAMETER LIST

	Parameter	Working Principle	Measuring Range	Accuracy	Repeatability
1	TCr Total Chromium	Diphenylcarbazide spectrophotometric	0-1.0mg/L, 0-5.0mg/L (customisable)	≤±5%	≤±5%
2	TNi Total Nickel	Dimethylglyoxime (DMG) spectrophotometric	0-2.0mg/L, 0-10mg/L (customisable)	≤0.2mg/L: ±0.02mg/L; >0.2mg/L: ±5%	≤±5%
3	TCu Total Copper	Bathocuproine spectrophotometric	0-2.0mg/L, 0-5.0mg/L (customisable)	≤0.2mg/L: ±0.02mg/L; >0.2mg/L: ±10%	≤±5%
4	TZn Total Zinc	Zincon spectrophotometric	0-2.0mg/L, 0-10.0mg/L (customisable)	≤0.1mg/L: ±0.01mg/L; >0.1mg/L: ±5%	≤±5%
5	F Flouride	Fluorine reagent spectrophotometric	0-1mg/L, 0-5mg/L (customisable)	≤0.1mg/L: ±0.01mg/L; >0.1mg/L: ±10%	≤±5%
6	TCd Total Cadmium	Porphyrim spectrophotometry	0-0.2mg/L, 0-1.0mg/L (customisable)	≤±5%	≤±5%
7	TPb Total Lead	Porphyrim spectrophotometry	0-2mg/L; 0-4mg/L (customisable)	Standard solution ≤ ±5%; Water sample ≤ ±15%	≤±5%
8	CN Cyanide	isonicotinic acid-barbiturates spectrophotometric	0-2mg/L; 0-10mg/L (customisable)	≤0.1mg/L: ±0.01mg/L; >0.1mg/L: ±10%	≤±5%
9	PO Phosphate	Ammonium molybdate spectrophotometric	0-2mg/L; 0-10mg/L (customisable)	≤0.5mg/L: ≤±0.05mg/L; ≥0.5mg/L: ≤±10%	±10%
10	NO3N Nitrate	Resorcinol spectrophotometry	0-2mg/L; 0-10mg/L (customisable)	≤0.2mg/L: ≤±0.02mg/L; >0.2mg/L: ≤±10%	±10%
11	NO2N Nitrite	N-(1-naphthyl) ethylenediamine dihydrochloride spectrophotometric	0-0.5mg/L; 0-2mg/L (customisable)	≤0.05mg/L: ≤±0.005mg/L, >0.05mg/L: ≤±10%	±10%
12	TAs Total Arsenic	Dithiodiantipyrinylmethane spectrophotometry	0-1mg/L (customisable)	Standard solution ≤ ±5%; Water sample ≤ ±15%	≤±5%
13	CODmn Chemical Oxygen Demand	Permanganate Index	0-10mg/L; 0-20mg/L (customisable)	±5%F.S.	±5%

