JM563B

ELEKTROKEMISK SENSOR

Online Ion-selective Nitrate Sensor

Ion selective · Auto temp. compensation · 0–1000 mg/L · POM + 316L body · IP68



Product Introduction

The JM563B online nitrate sensor uses an industrial electrode — an ion-selective electrode made with a PVC membrane — to selectively detect nitrate ions in water with fast response and accurate measurement. A built-in temperature sensor provides automatic temperature compensation, making it suitable for long-term online monitoring. It measures nitrate content in natural water, surface water, groundwater, produced water and aquaculture applications.

Product Features

- Digital sensor with RS-485 output and MODBUS protocol
- No electrolyte required, strong anti-interference, no frequent calibration
- Segmented modular design for convenient later replacement and maintenance — plug-and-play
- Built-in temperature sensor with automatic temperature compensation
- Built-in calibration parameters for convenient on-site use and re-calibration

Applications

Natural water Surface water
Groundwater Produced water
Aquaculture

Product Specification

Parameter	JM563B Nitrate Sensor
Measurement principle	Ion selective method
Range	0–1000 mg/L (other ranges on request)
Accuracy	±10% or ±1 mg/L (whichever is greater)
Resolution	0.01 mg/L
Response time	30 s
Temperature range	0–50 °C
Protection class	IP68
Interface	RS-485, MODBUS protocol
Power	0.25 W
Recommended supply	DC 12–24 V, ≥1 A
Dimensions	Φ36 mm × 265 mm (with protective cap)
Cable length	10 m (default), customizable
Material	POM + 316L (titanium alloy optional)