POP-500F Industrial ORP Online Analyzer

Introduction

The POP-500F series ORP electrodes feature a large-area, high-purity platinum ring design, ensuring highly stable measurement potential. The reference system utilizes the same reference as industrial-grade pH electrodes, providing high reliability. Different models are available to suit various application scenarios, including: pure water, conventional wastewater, and complex industrial wastewater applications.



Main Features

- Wide measurement range;
- Exceptional high-temperature resistance;
- Dual-electrolyte structure design for extended service life;
- IP68 waterproof rating;
- Large-area platinum ring for stable measurements;
- Adaptable to various complex operating conditions.

Application

- Suitable for pure water applications such as boiler water systems and pure water treatment systems;
- Suitable for high-temperature applications in biopharmaceuticals, food and beverage, chlor-alkali, and petrochemical industries;
- Suitable for various other industrial water quality scenarios involving ammonia water, high alkalinity, high chlorine, high salinity, high heavy metals, sulfides, and more.

Technical Specifications

Measurement Range	-1999 mV – +1999 mV
Temp. Range	0 ~ 130 ℃（(no freezing）
Pressure Range	0 ~ 3 Bar，6 Bar MAX
Factory Slope	＞95%
Zero Point	86±15mV（25℃）(in a pH 7.00 solution containing saturated hydroquinone)
Response Time	≤30 seconds (to reach 95% of the final value) (after stirring)
Housing Material	Electrode Material: Glass electrode; Sheath Material: ABS, PPS, or PTFE (optional)
Communication protocol	MODBUS RS485
Power supply	AC:85-500VAC;DC:9-36VDC
Output	3-way 4-20mA
Relay	Three-way relays,programmed response parameter and response value
Protective rate	Sensor:IP68/NEMA6P;Transmitter:IP66/ NEMA4X
Cable Length	Standard: 10 meters; extendable up to 50 meters