

ORP System Specifications



Connect this ORP sensor to a PLC for seamless integration with industrial control systems. Use any computer to display data, calibrate and customize the measurement without an intermediate analyzer electronics box. A LD500 local display can be used if desired. Sensor heads are pre-calibrated and can be replaced or exchanged with any other type of sensor without taking the system down. Save space, time and money.

- Differential ORP measurement
- Pre-calibrated (no field calibration required)
- Plug & play sensor heads
- Replaceable quad junction salt bridges
- Electrode protection options
- Direct data reporting
- Plug & play industrial communications adapters

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| <p>Measurement System Performance <i>Range:</i> -2100mV to +2100mV <i>Resolution:</i> 0.1mV <i>Accuracy:</i> 0.1% of reading <i>Step Response Time:</i> 90% in 30 seconds <i>Note:</i> Typical at 25°C Performance unaffected by cable length</p> | <p>Units of Measure Measurement Units: mV Temperature Units: °C, °F</p> <p>Calibration Sample: 1 point Temperature: 1 and 2 point <i>Note:</i> ORP and temperature are precalibrated at the factory</p> |
| <p>Operational Environment <i>Temperature Range:</i> -5°C to 95°C <i>Maximum Pressure:</i> 100 psi @ 95°C 85 psi @ 75°C <i>Maximum Flow Rate:</i> 10 ft/second</p> | <p>Temperature Compensation Options Temperature measurement is provided as an independent measurement. <i>Note:</i> Temperature can be entered manually</p> |
| <p>Power Requirements <i>Voltage Range:</i> 10 to 30 VDC <i>Maximum Power:</i> 200 mW <i>Typical Power:</i> 120 mW Note: Class II DC power supply required</p> | <p>Other Configuration Options Sensor Filter: 0 to 100 seconds Temperature Filter: 0 to 100 seconds</p> |
| <p>Construction Process Electrodes: Platinum or Gold Ground Rod: Titanium, 316 Stainless Steel or Hastelloy C O-Rings: Viton® (other materials available)</p> | <p>Approvals and Ratings Immunity & Emissions CE (EN61326 and EN61326:1998) Safety CE (EN 61010-1) UL 508 Hazardous Locations UL Class I, Division 2</p> |