Datalogging Water Quality Sensor

Seametrics TempHion™ pH/ORP/ISE Smart Sensor with Datalogging

The TempHion[™] is a submersible water quality sensor and data logger that includes a pH/ORP or Bromide element as well as one thermistor-based temperature element. With a patented reference electrode, the TempHion provides long-term stability for continuous or intermittent monitoring – making unattended in-situ pH testing and Bromide tracer studies possible without frequent calibrations or service.

FEATURES

- Measures pH, ORP, and temperature
- · Or measures Bromide and temperature
- Small, .75" probe diameter

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- Field replaceable AA batteries
- Dual Modbus and SDI-12 or RS485
 protocol
- Integrated data logger collects 200,000+ records
- Includes Aqua4Plus software
- Optional Geotech telemetry system available

APPLICATIONS

- Precise single- or multi-well tracer tests
- Saltwater intrusion tracking
- Tidal influence studies
- Wastewater treatment discharge
- pH monitoring



CALL GEOTECH TODAY (800) 833-7958

Geotech Environmental Equipment, Inc.

2650 East 40th Avenue • Denver, Colorado 80205 (303) 320-4764 • FAX (303) 322-7242 email: sales@geotechenv.com • website: www.geotechenv.com

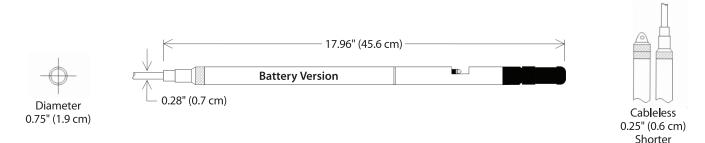
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SPECIFICATIONS

Housing & Cable Output Channels Weight 0.8 lb. (0.4 kg) рH ORP Bromide Temperature Body Material Acetal & 316 stainless or titanium Flement 30K ohm thermistor, Epoxy Glass combination Platinum ring Aq/AqCl solid-state electrode bead/external housing electrode (Ion electrode method) Wire Seal Material Fluoropolymer and PTFE +0.2°C ±0.2 pH units, 0.1% mV 0.1 mVH, 0.1% mV $\pm 5.0\%$ of measured value Accuracy Cable Submersible: polyurethane, polyethylene, (typical) value (typical) value (typical) or ETFE (4 lb./100 ft., 1.8 kg/30 m) 0.01 pH units Resolution 0.1°C 0.01 mVH units 0.1 ppm Field Connector Standard Eh, mV Units Celsius, Fahrenheit, Kelvin pH, mV ppm, mV Temperature 0° to 55°C (32° to 131°F) 0-14 pH units/-538 to 260 ±1200 mV 0-10,000 ppm Range **Operating Range** 0° to 55°C (32° to 131°°F) mV Storage Range Without batteries: -20° to 80°C (-4° to 176°F) 0° to 40°C Compensated 0° to 40°C (32° to 104°F) Isopotential point Power (32° to 104°F) characterization Internal Battery Two replaceable lithium 'AA' batteries -Calibration One or two point EH 1 pt. calibration One or two point calibration Expected battery life: 18 months at 15 min. calibration w/pH buffers w/ionic strength adjustment polling interval (may vary do to (4 & 7 or 7 & 10) environmental factors) **Reference Solution** Potassium Nitrate -Potassium Nitrate -Potassium Nitrate - (KNO₃) Auxiliary 12 VDC – Nominal, 6-16 VDC – range (KNO_3) (KNO_3) Communication Reference Ag/AgCl solid state electrode, capillary liquid junction, TempHion™ reference solution Modbus® RS485 Modbus® RTU, output = 32-bit IEEE **Maximum Depth** pH/ORP: 700 ft. (210 m)/300 psi, ISE: 230 ft. (70 m)/100 psi floating point **Environmental** IP-68, NEMA 6P SDI-12 SDI-12 (ver. 1.3) - ASCII Specifications subject to change. Logging Modbus is a registered trademark of Schneider Electric. Memory 4MB - 200,000 records Logging Types Variable, user-defined, profiled Logging Rates 2x/sec. maximum, no minimum Baud Rates 9600, 19200, 38400 Software Complimentary Agua4Plus Networking 32 available addresses per junction (Address range: 1 to 255) File Formats .a4d and .csv



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