

Datalogging Water Quality Sensor

Seametrics TempHion™ ISE Submersible Smart Sensor with Datalogging

The TempHion™ ISE is a submersible water quality sensor and datalogger that comes with powerful, easy-to-use Aqua4Plus software. Each unit includes a bromide sensing 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 possible without frequent calibrations or service.

FEATURES

- **Measures bromide and temperature**
- **RS485 network**
- **Integrated datalogger collects 200,000+ records**
- **Low power**
field replaceable AA batteries
- **Dual protocol (Modbus® and SDI-12)**
great flexibility
- **Patented reference electrode**
*6-month sensor stability**
- **Solution ground**
for excellent noise protection
- **Small diameter**
0.75" (1.9 cm)
- **260,000 record non-volatile memory**
no data loss in the event of a power failure
- **Wireless connectivity**
radios and/or cellular
- **Includes Aqua4Plus software**

* may vary due to environmental factors

APPLICATIONS

- **Single- or multi-well tracer tests**
- **Waste water treatment discharge**



CALL GEOTECH TODAY (800) 833-7958

Geotech Environmental Equipment, Inc.

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SPECIFICATIONS

Housing & Cable

| | |
|--------------------|---|
| Weight | 0.8 lb. (0.4 kg) |
| Body Material | Acetal & 316 stainless or titanium |
| Wire Seal Material | Fluoropolymer and PTFE |
| Cable | Submersible: polyurethane, polyethylene, or ETFE (4 lb./100 ft., 1.8 kg/30 m) |
| Field Connector | Standard |

Temperature

| | |
|-----------------|--|
| Operating Range | 0° to 55°C (32° to 131°F) |
| Storage Range | Without batteries: -20° to 80°C (-4° to 176°F) |

Power

| | |
|------------------|--|
| Internal Battery | Two lithium 'AA' batteries – Expected battery life: 18 months at 15 min. polling interval (may vary do to environmental factors) |
| Auxiliary | 12 VDC – Nominal, 6-16 VDC – range |

Communication

| | |
|---------|--|
| Modbus® | RS485 Modbus® RTU, output = 32-bit IEEE floating point |
| SDI-12 | SDI-12 (ver. 1.3) – ASCII |

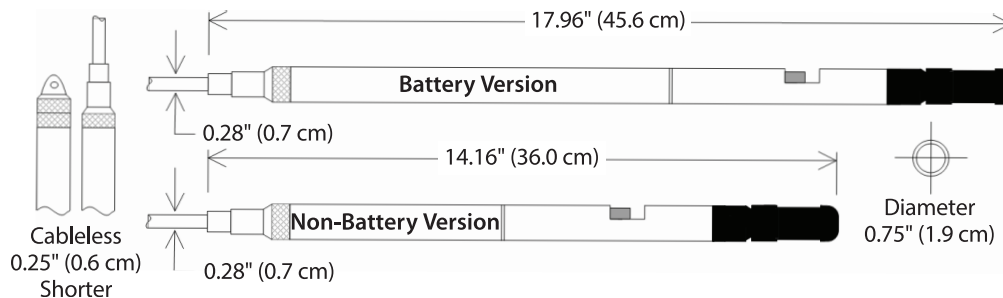
Logging

| | |
|---------------|---|
| 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 Aqua4Plus 2.0 and Aqua4Plus Lite |
| Networking | 32 available addresses per junction (Address range: 1 to 255) |
| File Formats | .a4d and .csv |

Output Channels

| | Temperature | Bromide |
|-----------------------|--|--|
| Probe Material | 30K ohm thermistor, Epoxy bead/external housing | Ag/AgCl solid-state electrode |
| Measurement Principle | | Ion electrode method |
| Accuracy | ±0.2°C | ±5.0% of measured value (typical) |
| Resolution | 0.1°C | 0.1 ppm |
| Units | Celsius, Fahrenheit, Kelvin | ppm, mV |
| Range | 0° to 55°C (32° to 131°F) | 0-10,000 ppm |
| Thermal Compensation | – | Isopotential point characterization |
| Calibration | – | One or two point calibration w/ionic strength adjustment |
| Reference | Ag/AgCl solid state electrode, capillary liquid junction, TempHion™ reference solution | |
| Maximum Depth | 230 ft. (70m)/100psi | |
| Environmental | IP-68, NEMA 6P | |

Specifications subject to change.
Modbus is a registered trademark of Schneider Electric.



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