



SUBMERSIBLE SMART pH SENSOR

WITH DATA LOGGING



FEATURES

- RS485/RS232 interface
- Small diameter
- pH, temperature & time
- 65,000+ records / non-volatile
- 316 stainless steel, Viton®, Delrin® and Teflon® construction
- Polyethylene, polyurethane and FEP Teflon® cable options
- Solution ground for excellent noise protection
- Long-term sensor stability
- MODBUS® protocol
- Easy export to spreadsheets & databases

DESCRIPTION

The AquiStar® TempHion™ Smart Sensor is a submersible pH/temperature sensor and datalogger combined in one small diameter unit. The TempHion™ Smart Sensor records over 65,000 records of pH, temperature, and time, operates on low power, and features easy-to-use software with powerful features.

Several TempHions, or a combination of TempHions and PT2X Pressure/Temperature Smart Sensors, can be networked together and controlled from one location, either directly from a single computer or via a WaveData™ Wireless Data Collection System.

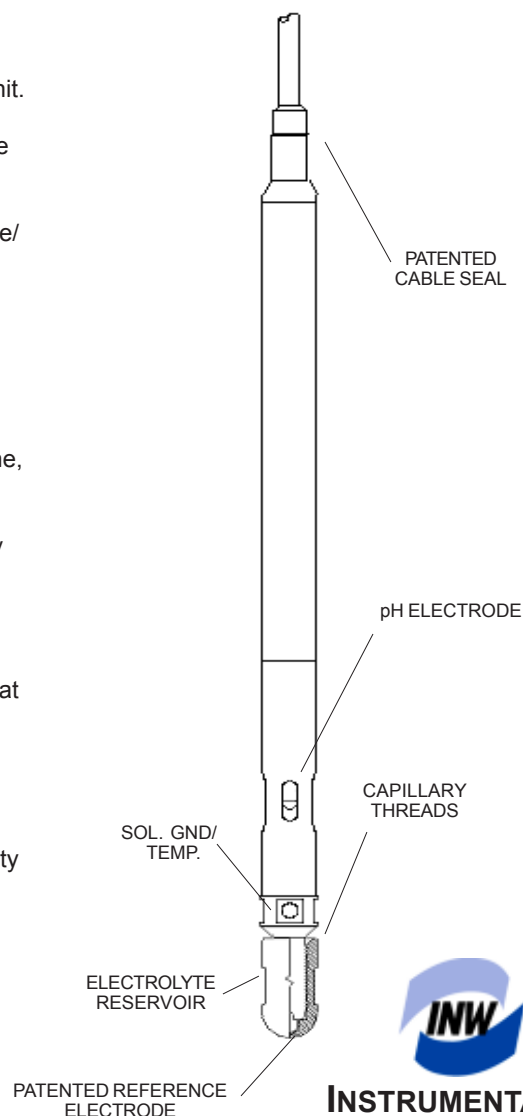
OPERATION

The TempHion™ is powered internally with two AA batteries or with an auxiliary power supply for data intensive applications. INW offers alkaline, rechargeable, and other auxiliary power systems.

The internal processor in the TempHion™ Smart Sensor allows for easy calibration, using the calibration utilities in INW's Aqua4Plus software. Once calibrated, this calibration data is stored in non-volatile memory within the Smart Sensor. When data is collected, this calibration information, along with sensor specific temperature and pH calibration information, is applied to the data, resulting in highly accurate readings at a wide range of temperatures.

APPLICATIONS

The TempHion™ can be used for pH monitoring in a wide variety of applications. Its patented reference electrode provides long-term stability for continuous or intermittent monitoring making unattended insitu pH testing possible, without frequent calibrations or service.



**INSTRUMENTATION
NORTHWEST, INC.**

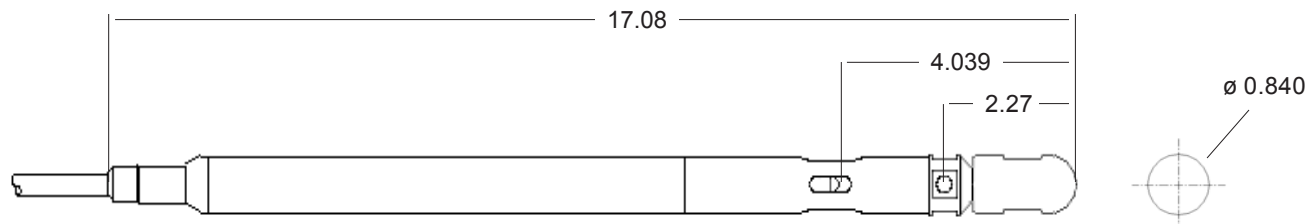
1-800-776-9355
<http://www.inwusa.com>



AquiStar® TempHion™

SUBMERSIBLE SMART pH SENSOR

DIMENSIONS AND SPECIFICATIONS



HOW TO ORDER

- Select sensor.
- Specify cable length.
- Select accessories.

TEMPHION SMART SENSOR	
3C391	TempHion Smart Sensor / pH
TEMPHION CABLE TYPES	
6E540	9-Conductor, PU Cable
6E542	9-Conductor, HDPE Cable
6E543	9-Conductor, FEP Teflon® Cable
ACCESSORIES	
3P902	2" well seal adaptor
3P904	4" well seal adaptor
6E517	Cable strain relief kit
6E520	200' capacity reel
3B835	Interface cable
3B830	RS485/RS232 adaptor w/Aqua4Plus software
4N370	INW's TempHion reference electrolyte - Standard
4N311	pH 4 Buffer, 1 liter
4N312	pH 7 Buffer, 1 liter
4N313	pH 10 Buffer, 1 liter

Information in this document is subject to change without notice.

MECHANICAL

Body Materials	Delrin® and 316 stainless steel
Seal Material	Viton® and Teflon®
Reference Electrode	Patented capillary liquid junction with Ag/AgCl electrode
Reference Electrolytes	TempHion no heavy metals & non-contaminating
Thermistor	30K Ohm
pH Electrode	General purpose glass
Weight	1 lb.
CABLE	
Standard Cable	9-conductor shielded cable with polyurethane jacket
Weight	4 lbs. per 100 feet

OPERATING SPECIFICATIONS

pH	
Accuracy	± 0.02 pH units
Resolution	0.001 units
Temperature	
Accuracy	± 0.5°
Resolution	0.1° C
Time	
Accuracy	± 6 sec/day ± 2 sec/day, typical
Recommended Operating Temperature Range	0° C to 40° C
Temperature Range	Contact factory for extended temperature ranges

POWER SUPPLY

Internal	2 AA Alkaline Batteries
Auxiliary	6 - 13 VDC, 15 mA

INSTRUMENTATION NORTHWEST, INC.



Sales and Service Locations

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