

TempHion® T-2 SUBMERSIBLE WATER QUALITY SENSOR



FEATURES

- mV signal
- Double-sealing
- Modular design
- Small diameter
- Measures temperature and one ion parameter
- Submersible to 250'
- Long-term sensor stability
- Solution ground for excellent noise protection

DESCRIPTION

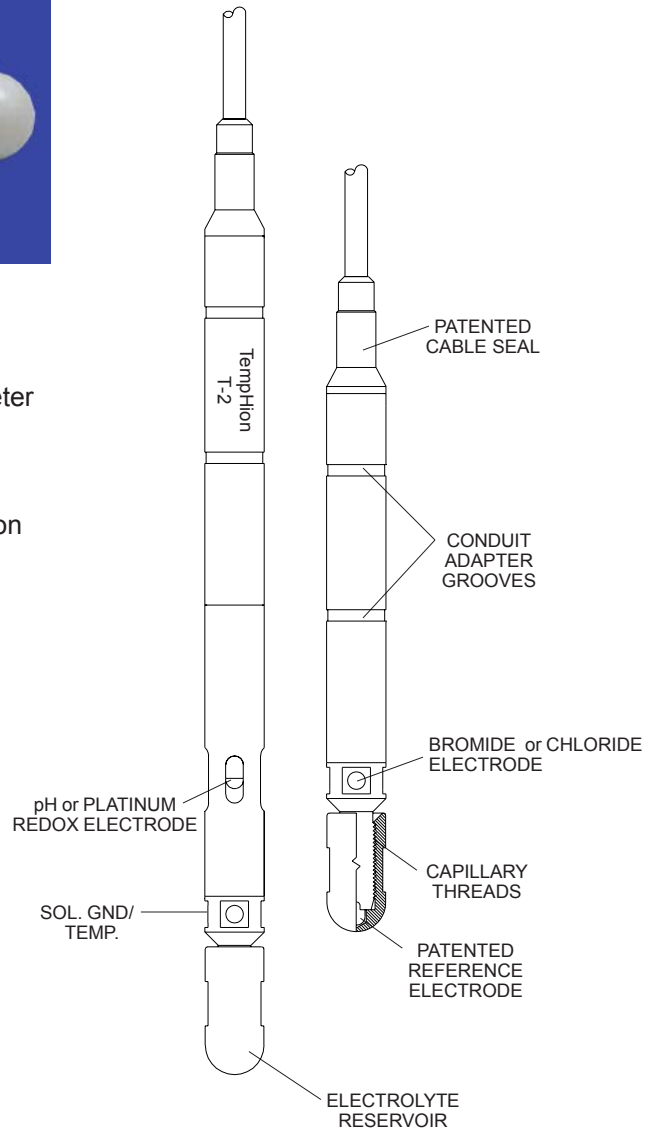
INW's TempHion® is a submersible water quality sensor that provides accurate and stable water quality measurements. Each unit comes with one interchangeable electrode for measuring either pH, redox, bromide or chloride. All units include a thermistor for measuring temperature. The updated cable harness design reduces the probability of leakage and protects the cable jacket from damage by providing double-sealing. Stainless steel, Viton®, Delrin® and Teflon® construction increases corrosion resistance. A 4-20 mA interface card is available.

OPERATION

The T-2 is compatible with most pH/mV meters. The signal conditioning includes amplified mV output. The temperature measurement is made through a direct thermistor connection compatible with Orion® pH meters and Campbell Scientific Dataloggers.

APPLICATIONS

The TempHion® may be used for precise single- or multi-well tracer tests, saltwater intrusion tracking, tidal influence studies, wastewater treatment discharge and pH monitoring. Its patented reference electrode provides long-term stability for continuous or intermittent monitoring making unattended insitu water quality measurement and testing possible (without frequent calibrations or service).



TempHion-2 Features

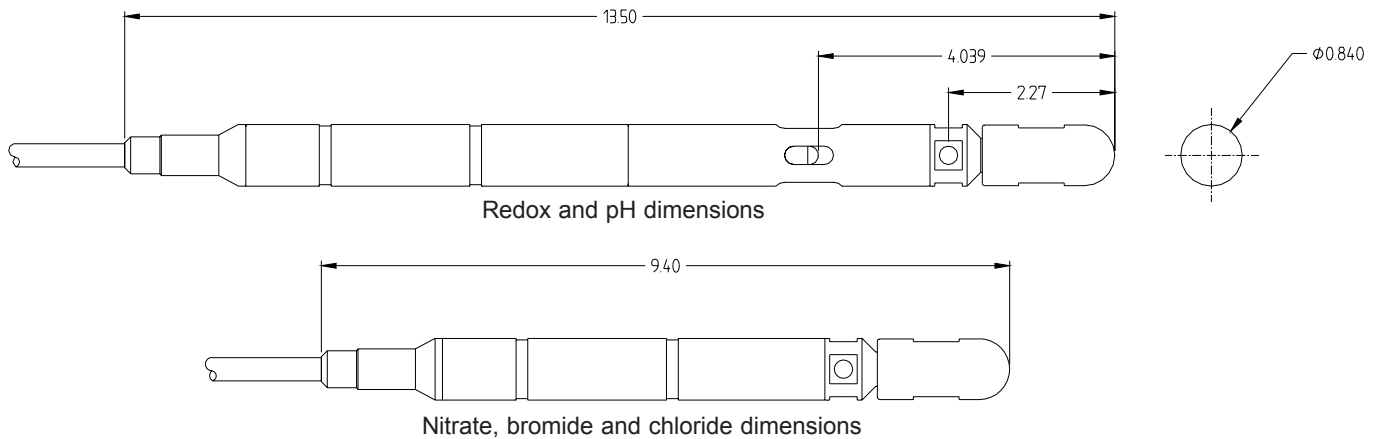


**INSTRUMENTATION
NORTHWEST, INC.**

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

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DIMENSIONS AND SPECIFICATIONS



HOW TO ORDER

- Pick sensor type.
- Specify cable length.
- Specify connector option.

TEMPHION-2 SENSOR TYPES			
4T753	T-2 with pH	4T750	T-2 with bromide
4T754	T-2 with redox (platinum)	4T751	T-2 with chloride
TEMPHION-2 CABLE TYPES			
6E540	9-Conductor, PU Cable		
6E542	9-Conductor, HDPE Cable		
6E543	9-Conductor, FEP Teflon® Cable		
MISCELLANEOUS			
4N120	Orion® 250A Meter		
4N125	Orion® 290A Meter		
4T300	Orion® Meter Break Out Box		
4N370	INW's TempHion reference electrolyte - Standard		
4T301	mV to 4-20 mA Interface		
4T302	Application Kit for Campbell Scientific dataloggers		

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
Bromide Electrode	Solid State
Chloride Electrode	Solid State
Nitrate Electrode	Solid State
Redox	platinum
Accuracy (typical)	± 5% of reading or .02 pH units
Long Term Stability	< 10% over 12 months in laboratory conditions
Weight	1 lb.
CABLE	
Standard Cable	9-conductor shielded cable with polyurethane jacket
Weight	4 lbs. per 100 feet

ELECTRICAL

Temperature	30K Ohm thermistor; no amplification required
Gain/Output	1-1 amplification with input noise filtration
Power Supply*	8-24 Volts DC
Typical Current Consumption	2.3 mA

*Reverse polarity protected

INSTRUMENTATION NORTHWEST, INC.



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