

## WATER TEMPERATURE SENSOR

This sensor is used to measure water temperature of heated or chilled water and other liquids in mechanical systems. The sensor includes a brass well which allows the probe to be removed from the pipe without draining the system and protects the probe. There are four thermistor based models, and one RTD version to provide compatibility with the majority of DDC systems. The sensors are accurate enough that calibration is not usually required.



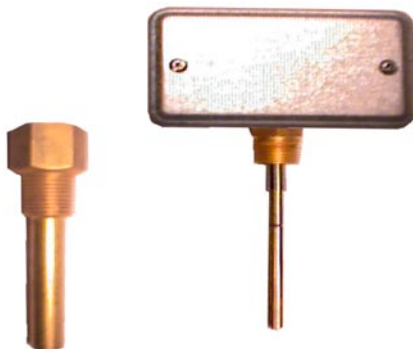
- A ½” NPT female pipe fitting is welded into the pipe. These fittings are usually supplied and installed by the piping trade under direction of the controls trade.
- Choose an orientation where any condensation will not collect, such as the top of a horizontal pipe section or at a 45deg angle from horizontal
- Before threading the sensor into the well, deposit some thermal paste in the bottom of the well to improve heat conduction between the metal parts.
- The sensor is wired with two conductor 18ga, unshilded twisted pair.

Sensor Property	Specification
Thermistor Accuracy	+/-0.2C
Platinum RTD Accuracy	+/-0.4C
Thermistorrange	-70C to 150C
Probe Material	Stainless
Cable Properties	FT4, 80C, 600V

### Construction

The sensor probe is made to industrial standards, the stainless steel probe is welded, ground down and finally pressure tested. The probe assembly is baked and epoxy sealed to provide long term protection from moisture. The probe is spring loaded to ensure thermal contact with the bottom of the well. The thermistors are accurate to 0.2C while the platinum RTD is accurate to 0.5C. The well is made from machined brass, and fits a standard ½” NPT fitting. The sensor housing is a galvanized electrical box.

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TORONTO

361 Steelcase Road West, Suite 6  
Markham, Ontario, L3R 3V8

tel: (905) 477-2133  
fax: (905) 477-4219

MONTRÉAL

280 Frenette  
Rosemère, Québec, J7A 2Z3

tél: (450) 621-3626  
télé: (450) 621-4089

TOLL FREE  
1-800-567-8686

NUMÉRO SANS FRAIS  
1-888-621-3626