

WTS5 SERIES STRAP ON WATER TEMPERATURE SENSOR

⚙️ Description:

Omicron Sensing Inc manufactures water temperature sensors. This document shows the enclosures and temperature vs resistance curves for the standard sensors.



⚙️ Features:

The sensors employ precision interchangeable thermistors and RTD which are compatible with all the major building automation systems.

- Designed for temperature sensing in an HVAC and light industrial control applications
- Precision interchangeability eliminates the necessity for individual circuit calibration.
- Omicron is able to produce custom sensors in small volume at standard sensor pricing

There are several sensor element ranges to choose from, which guarantee compatibility with all popular DDC systems. The sensor elements are precision thermistors or platinum RTDs. Field calibration is not generally required. The probe is epoxy sealed to prevent moisture from migrating into the probe. Custom probe lengths, wire types and sensor elements are available for large OEM projects. Ask about our plastics & metal manufacturing capabilities for custom housings as well.

⚙️ Specifications:

Thermistor Accuracy	:	± 0.1°C
Platinum RTD Accuracy	:	± 0.2°C
Thermistor Range	:	-70°C to 150°C
Platinum RTD Range	:	-200°C to 300°C
Probe Material	:	Stainless Steel
Cable Properties	:	FT4, 80°C, 600V

⚙️ Installation:

For measuring water temperature, the probe is strapped with plastic tie wraps or a metal strap onto the outside of the pipe and covered with insulation. The electrical box is mounted on a strut bar or on the wall near the pipe. Two conductors are required, 18ga, unshielded twisted pair is common.

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Dimension:



HOW TO ORDER

Description:

WTS5

WTS5 Water Temperature Sensor

Enclosure:

WP

M1 Metal 11-10 electrical box WP Watertight plastic box

Temperature Curve:

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2	PT-100 3 Wire	5	1.8KΩ Thermistor	6	3kΩ Thermistor
7	10KΩ Thermistor, Type 2	9	100KΩ Thermistor	11	LM334 IC SENSOR
12	PT-1000, 2 Wire	13	Ni-1000, 2 Wire	20	20kΩ Thermistor
21	LM335 IC SENSOR	24	100KΩ Thermistor, Type 3		

*Thermistors, pt elements and probe sizes for all popular control systems are available, send us an email if you don't see what you need online.

Ordering Example: WTS5 - WP - 7