WTS5 STRAP ON PROBE

This sensor is used to measure water temperature of heated or chilled water and other liquids found in the various mechanical systems of a building.

The sensor is especially intended for strapping to the outside of a pipe when there is no opportunity to install a well such as in a retro-fit or additions to an existing system.

The strap on probe is also useful in applications such as monitoring batteries,transformers, generators, and generally any place where a complete assembly cannot be mounted. Ice rink slabs and soil temperature are other applications. 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.

Sensor Property	Specification
Thermistor Accuracy	+/-0.2C
Platinum RTD Accuracy	+/-o.4C
Thermistorrange	-70C to 150C
Probe Material	Stainless
Cable Properties	FT4, 80C, 600V

Construction

The sensor probe is made from stainless steel, and is epoxy sealed to provide 100% protection from moisture over time.The thermistor models are accurate to 0.2C while the platinum RTD is accurate to 0.5C.

The cable is 12 in long and fire rated to FT4, 80C with 600V isolation. A nickel coated spring provides strain relief for the cable. The sensor housing is a galvanized electrical box which is sturdy and easy to mount.

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 twited pair is coommon.

WTS5 Typical Installation on pipe surface

Ordering Information

Sensor	DDC System	Part#
10K curve 3	Temco, Andover AAM,Siebe,Multinet	WTS5-7
10K curve 2	ALC, Trane,CSI, Solidyne, Delta	WTS5-24
1000 ohm platinum RTD	Honeywell, Johnson,L&S	WTS5-12
3k thermistor	Alerton	WTS5-6
100k	Landys&Gyr Powers	WTS5-9

Example: a strap on sensor for Andover = WTS5-7