



DEGREE CONTROLS, INC.

Your Partner for Airflow Sensing & Controls

UTS1000



Features

- USB sensor offers up to $\pm 1.5^{\circ}\text{C}$ accuracy when used with appropriate thermocouple
- Measures surface temperatures
- Compatible with the $^{\circ}\text{C}$ Port family of instruments
- Electrically isolated up to 1500V.
- Suitable for T thermocouple wire
- Thermocouple interchangeable with sensor body
- Excellent for measuring live electronics
- Easy to use – just plug in and start measuring

Overview

The AccuSense™ UTS1000 are USB based thermocouple sensors for use with the $^{\circ}\text{C}$ Port family of data acquisition instruments. The $^{\circ}\text{C}$ Port3600 data acquisition instrument holds up to 36 sensors (12 sensors for the $^{\circ}\text{C}$ Port1200.) Users of the $^{\circ}\text{C}$ Port3600/1200 can obtain thermocouple measurements as well as airflow and airflow temperature measurements (see UAS1000 Series) in one instrument.

Users of the $^{\circ}\text{C}$ Port3600/1200 can obtain thermocouple measurements simultaneously with air velocity and air temperature measurements, (see UAS1000 Series) in one set-up. This is critical in determining relationships between air velocity and surface temperatures within the assembly under test. These types of airflow and thermocouple tests are used in heat conduction engineering, vent design, and air mover redundancy work. The UTS1000 is built with 1500 VDC of isolation, to protect the $^{\circ}\text{C}$ Port instrument, when used in these types of powered test methodologies.

The UTS1000T is equipped with standard miniature connectors and has a measurement range of -50°C to 250°C . The intrinsic accuracy is $\pm 1.0^{\circ}\text{C}$, with a cumulative accuracy of $\pm 1.5^{\circ}\text{C}$ when used with the supplied thermocouple. The thermocouple is constructed of 5 meter 30AWG sheathed SLE (Special Limited Error) grade cable for abrasion resistance and optimum measurement accuracy.

Our AccuTrac™ software allows you to collect, analyze, and store all the data quickly and easily. Data is collected for each sensor in an Excel format, with a choice of statistical calculations of each sensor reading such as min/max, standard deviation, and averaging.

Specifications

Operating Temperature	0°C to 70°C
Storage Temperature	-40°C to 85°C
Relative Humidity (non-condensing)	5-95%
Measurement Range	-50°C to 250°C
Step Change Settling Time	4 seconds max
Response Time	2 seconds typical
Stability	$\pm 0.2^{\circ}\text{C}$ over 1 minute period
Accuracy	$\pm 1^{\circ}\text{C}$ (Sensor without thermocouple, $\pm 1.5^{\circ}\text{C}$ with supplied thermocouple)
Supply Voltage	Supplied via USB
Connector Dimensions	100 mm long X 17 mm wide X 8 mm thick

Degree Controls, Inc.

is an ISO-9001 certified, world-class designer and manufacturer of airflow sensing, monitoring, and control solutions. With over 20 years of proven experience, we pride ourselves on delivering solutions which provide the value, differentiation, and service required by our customers, to meet the rapidly changing competitive landscape that they face.

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