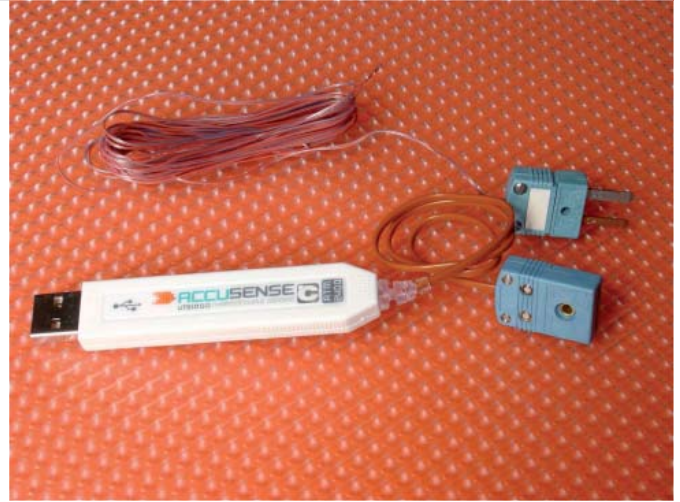


UTS1000 - Thermocouple Sensors for the ATM2400 Measurement System

features

- UTS Series measures surface temperatures
- USB sensor offers up to $\pm 1.5^{\circ}\text{C}$ accuracy when used with appropriate thermocouple
- Compatible with the ATM2400
- Easy to use – just plug in and start measuring
- Electrically isolated up to 1500V.
- Suitable for T thermocouple wire
- Excellent for measuring live electronics
- Thermocouple interchangeable with sensor body



overview

The AccuSense UTS1000 are USB based thermocouple sensors for use with the ATM2400 Measurement System. The ATM2400 data hub holds up to 36 sensors. Users of the ATM2400 can obtain thermocouple measurements as well as airflow and airflow temperature measurements (see UAS1000 Series) in one instrument.

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.

AccuTrac 2005 software allows you to collect, analyze and store 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

Storage temperature	-20°C to 80°C
USB instrument operating temperature	10°C to 60°C
Relative humidity (non-condensing)	5-95%
UTS1000T 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
USB/ATM2400 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 Turn-Key Manufacturer of control solutions for progressive technology industries. With over 15 years of proven experience, we pride ourselves in delivering solutions to our customers that provide the differentiation they need for their rapidly changing competitive landscape.