

USB Temperature Acquisition System

Description

A high precision thermistor is combined with a 14 bit analog to digital converter and a simple USB communication interface to capture **real-time** temperature data. The **DIRECTEMP™** device can communicate either as a Human Interface Device which auto installs to interface with the **DIRECTEMP™** data logging software, or as a virtual serial port with which custom or third party software may be used. **DIRECTEMP™** probes are calibrated in QTI's metrology laboratory and can be recalibrated and returned to service for extended life. The absolute accuracy and repeatable precision of the **DIRECTEMP™** USB temperature acquisition system will become invaluable to your most critical application.

Specifications

- Up to ±0.1 °C absolute accuracy
- Up to 0.01 °C resolution*
- Choose probe style, cable length, and critical temperature point
- PC powered, no batteries
- Temperature range: -55 °C to 150 °C with proper probe selection
- RoHS compliant

TOLERANCE	±0.1 °C: 0 °C to 100 °C ±1.5 °C: -55 °C to 150 °C
RESOLUTION	0.01 °C
RoHS COMPLIANT	Yes
CURRENT DRAW	< 100mA

Available Interface Options

HID Configuration

(Plug & Play, DirecTemp™ Software Included)

- Windows data logging software included (right)
- Automatically recognized and installed by Microsoft Windows
- Stream data to a plot and record to file for future analysis
- Compatible with Win 2000, XP, Vista 32-bit systems



DirecTemp™ Software
(HID Configuration Only)

Serial Configuration

(Virtual Com Port, For OEM & Proprietary Software Applications)

- Virtual serial device
- Designed for integration with custom third party software applications
- Free Windows demo software & LabVIEW VI available upon request
- Communication protocol information available upon request
- Compatible with Linux, Windows, and MacOS systems

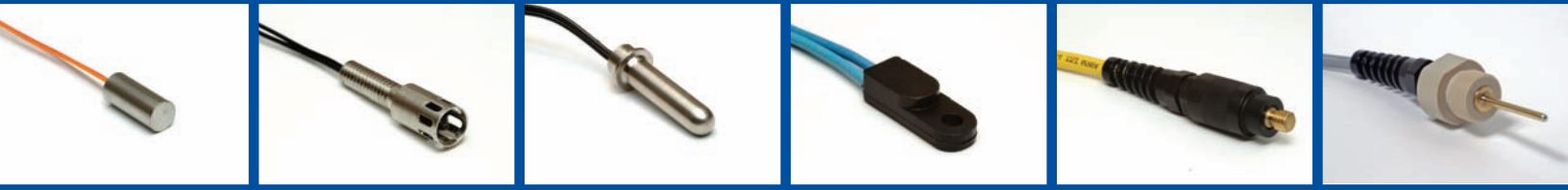


Customizable USB Probe
(See Reverse Side)

*Windows 32 bit versions work with included DirecTemp™ software
**User specified single point temperatures and tolerances available

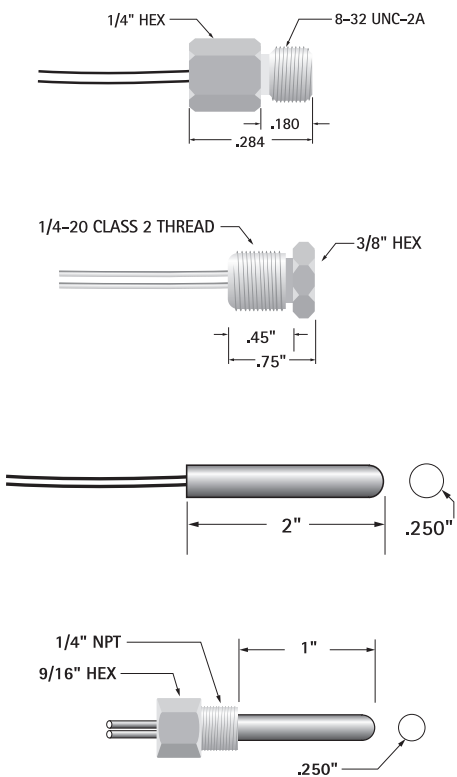
Warning: Do not use in human life support applications.

This device is not designed nor intended to operate in situations where human injury will result in the event of a failure.

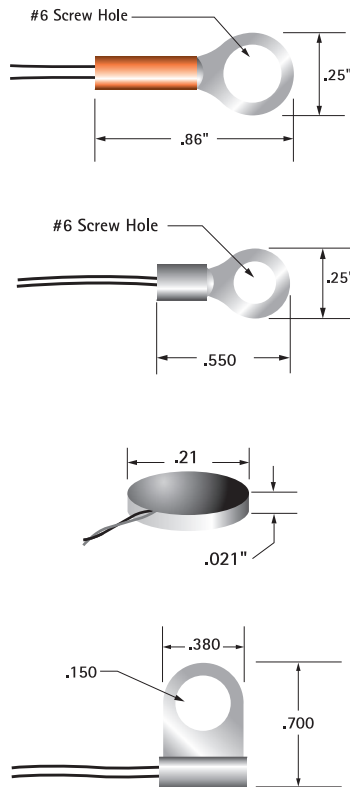


Select Probe Housing

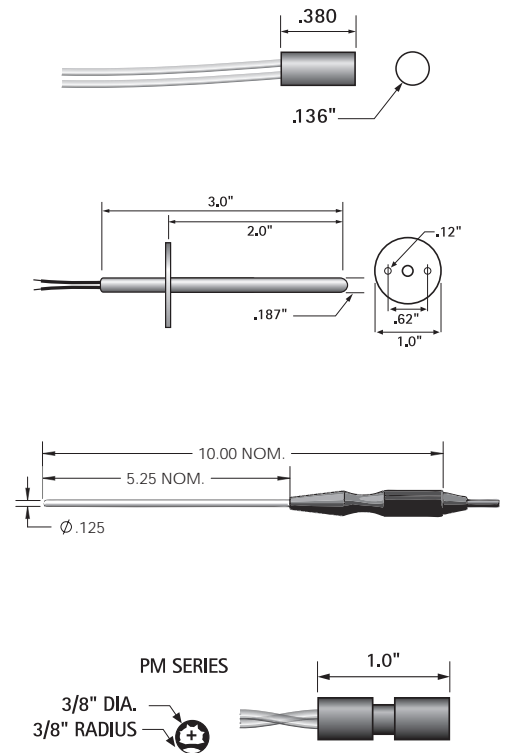
Liquid



Surface



General Purpose



Select Cable

Material Length

PVC	10'
Teflon	25'
	50'