

Resistance/Temperature Measurement

NIST Traceable Accuracy

± 1 °F including all effects of linearity, repeatability, hysteresis, and temperature with Pt100 Probe connected.

Operating Temperature

-4°F to +122°F (-20°C to +50°C)

Temperature Update Rate

14 readings per second

Overall Technical Specifications

Material

Base Plate is 6061-T6 Aluminum

Power

USB: high power (500 mA) USB port or USB hub

Media Compatibility

Clean, dry, non-corrosive gases only (brass, 316 SS, Viton, Silicon gel)

Connections

Pressure: ¼" FNPT

Power & Communications: USB – receptacle type

Mini B

RTD: M12 Connector

Software

Supported Operating Systems

Vista

Windows XP

Windows 7

Software Development Kit (SDK)

Example Programs with Source Code in

LabVIEW® and C#

Supporting .NET (C# / VB)



Temperature Sensor Specifications

Accuracy

Class A Tolerance Class (per IEC 60751)

Temperature Range

-58°F to 482°F (-50°C to 250°C)

Connector is 185°F (85°C Max)

Material

316L Stainless Steel Sheath and Housing

Temperature Probe

Pt100 (100 Ohms at 0°C, .00385 TCR (alpha))

Probe Dimensions

¼" diameter, 6" long

Connection

5 meter M12, molded cordset

Enclosure Dimensions

Weight

1.5 lbs. (Hook up fittings add .26 lbs.)

Height

H x 2.6", W x 3.6", L x 5.6"

H x 66 mm, W x 91 mm, L x 142 mm

Compatible with All Meriam Laminar Flow Element Models Including



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