T280 Series

Industrial Temperature Transducers

Request a Quote

Description

T280 Series temperature transducers are designed to measure both dynamic and static temperatures. T280 Series transducers utilize an RTD sensing element embedded in the sensor probe. This temperature sensor is constructed of all welded stainless steel with a heavy wall tubing probe that eliminates the need for a thermal well and thus minimizes costs and improves space efficiency. These units measure temperatures in the range of -320°F to +750°F. T280 Series temperature transducers accommodate many application specific features and options including special materials, customer specified process connections, special probe lengths, and customer specified electrical connections. All units are manufactured to be shock and vibration resistant. Each T280 Series temperature transducer is shipped with an NIST traceable calibration certificate.

Standard Features

- No Thermal Well Required
- Compact Size
- Probe Lengths from 1" to 4"
- 10000 psi Working Pressure
- All Stainless Steel Construction
- Shock and Vibration Resistant
- Calibration Record Traceable to NIST

Optional Features

- Alternative Materials
- Probe Length Greater Than 4"
- Customer Specified Electrical Connections
- Customer Specified Process Connections
- Submersible Versions Available
- Temperature Probes From -320°F to 750°F

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LORD DATA SHEET

PERFORMANCE

Temperature Output
Class A RTD 100 ohms or 1000 ohms per DIN EN 60751 (according to IEC 751)
Step Response
Thin wall probe: 1 sec. in liquid (63%)
Standard probe: 3 sec. in liquid (63%)

MECHANICAL CHARACTERISTICS

Working Pressure
10000 psi maximum
Operating Media
Fluids and gases compatible with stainless steel
(Inconel and other materials optional)
Pressure Fitting
1/4" NPT male (standard)
7/16"-20 per MS33656-4 male (optional)
Metric threads (optional)
Enclosure
Body and pressure cavity of stainless steel, hermetically sealed
RTD Probe
Specify probe length desired:
Dimension “L” (see drawing)
Weight
Approx. 5 oz.

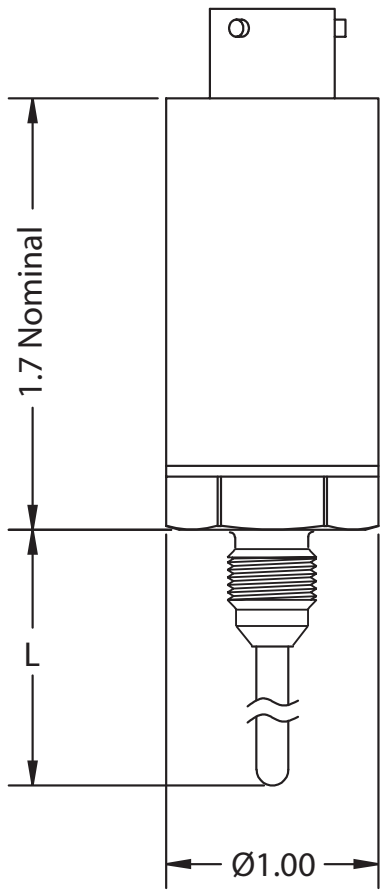
ELECTRICAL CHARACTERISTICS

Measuring Current
100 ohms: 0.3 to 1.0mA
1000 ohms: 0.1 to 0.3 mA
(Self heating has been considered)
RTD Nominal Resistance
100 ohms at 32°F
Insulation Resistance
> 10K megohms at 50 Vdc at 70°F
Electrical Termination
PTIH-10-6P stainless steel connector or equivalent
Optional electrical terminations available.

ENVIRONMENTAL CHARACTERISTICS

Temperature Case
-100°F to +300°F
Temperature Probe
-320°F to +750°F
Note: Consult factory for ranges above 450°F.

DIMENSIONS (inches)



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