



HAZARDOUS LOCATION TEMPERATURE TRANSMITTER



Model 340T
Temperature Transmitter

MODEL 340T/AI/AN

FEATURES:

- Compact, welded design
- 4-20 mA or 0 to 5 Vdc output
- Maximum process temperatures from -65 °F to +300 °F (-54 °C to +149 °C) maximum ambient temperature 185 °F (85 °C)
- Probe lengths from 3/4" to 7" (19 mm to 178 mm)
- Accuracy $\pm 1.0\%$
- Probe pressure rated up to 10,000 PSI
- ATEX & IEC Approvals

APPLICATIONS:

- Oil and gas
- Chemical industries
- Automotive test stand
- Power generation
- Medical and laboratory R&D

PRODUCT OVERVIEW:

The Model 340T temperature transducer is essential where reliable and accurate process temperatures are required. With a large range of temperatures ranges and probe lengths available the model 340T is adaptable for most temperature applications or processes. The compact size provides easy installation for on-board vehicles used in the oil and gas industry.

APPROVALS:

- ATEX/IEC
- ATEX Zone 2: II 3 G Ex nA/ic IIC T5 Gc

FIELD OPTIONS:

- Probe lengths from 3/4" to 7"
- Temperature ranges from -40 °F to +300 °F (-40 °C to +149 °C)
- Alternate electrical connectors and cable



GP:50 MODEL 340T/AI/AN

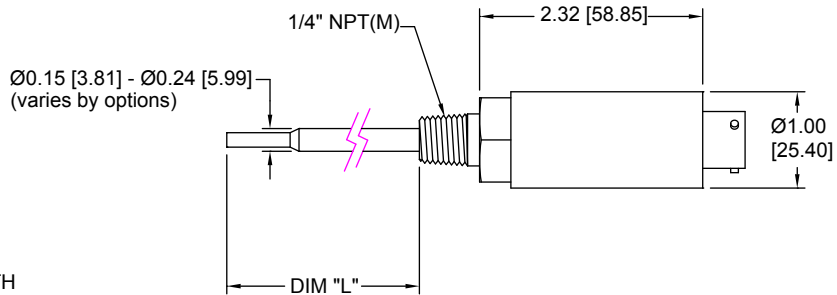
DIMENSIONAL DRAWING

All dimensions are in inches (mm)

STANDARD WIRING

| PIN | MODEL 340T |
|----------|------------|
| 1/RED | +EXC/SIG |
| 2/GRN | N/C |
| 3/WHT | N/C |
| 4/BLK | -EXC/SIG |
| 5/BRN | N/C |
| 6/SHIELD | CASE GND |

L = 0.50 TO 7.00 INCH PROBE LENGTH



REFERENCE SPECIFICATIONS

ELECTRICAL

- **Supply Voltage:** 9.0 to 36 Vdc, 10-28 Vdc for approved models
- **Output Signal:** 4-20 mA \pm 1% FSO
- **Output Current:** 2.0 mA max. for <0.1% FSO attenuation
- **Load Impedance:** 1,350 Ω max. at 36 Vdc and 750 Ω max. Vdc
- **Insulation Resistance:** > 100 M Ω at 50 Vdc and +70 °F (+21 °C)
- **Connection:** 6-pin bendix PT1H-10-6P stainless steel or equivalent standard, options available

MATERIALS OF CONSTRUCTION

- **Wetted Parts:** 316L stainless steel
- **Housing:** 300 series stainless steel

ACCURACY (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F)

- 1.0% FSO
- **Zero Balance:** 4.0 mA \pm 1% FSO

MECHANICAL

- **Process Connection:** 1/4" NPT (M) (other ports available)
- **Probe Length:** 3/4" thru 7"
- **Approximate Weight:** 5 ounces
- **Probe Pressure Rating:** 3,000 PSI, optional 10K PSI

TEMPERATURE RANGES

- 0 °F to +250 °F (-18 °C to +121 °C)
 - 0 °F to +300 °F (-18 °C to +149 °C)
 - -40 °F to +180 °F (-40 °C to +82 °C)
 - -40 °F to +250 °F (-40 °C to +121 °C)
- (consult factory for other ranges)

THERMAL SPECIFICATIONS

- **Thermal Response Time:** <2 secs
- **Operating Ambient:** max. +185 °F (+85 °C)
- **Operating Process:** max. +300 °F (+149 °C)

**Standard configurations shown.
Please consult factory for other options.**

All specifications are for reference purposes only. In the interests of continuous product improvement, all specifications are subject to change without notice. Please contact GP:50 for assistance with your application.

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