MODEL 340T/240T

FEATURES:
- Compact, welded design
- 4-20 mA or 0 to 5 Vdc output (240T)
- Maximum process temperatures from -65 °F to +300 °F (-54 °C to +159 °C)
- Probe lengths from 3/4” to 7” (19 mm to 178 mm)
  Accuracy ±1.0% FSO

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.

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
DIMENSIONAL DRAWING
All dimensions are in inches (mm)

STANDARD WIRING

<table>
<thead>
<tr>
<th>PIN</th>
<th>MODEL 240T</th>
<th>MODEL 340T</th>
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</thead>
<tbody>
<tr>
<td>1/RED</td>
<td>+EXC</td>
<td>+EXC/SIG</td>
</tr>
<tr>
<td>2/GRN</td>
<td>+SIG</td>
<td>N/C</td>
</tr>
<tr>
<td>3/WHT</td>
<td>N/C</td>
<td>N/C</td>
</tr>
<tr>
<td>4/BLK</td>
<td>-EXC/SIG</td>
<td>-EXC/SIG</td>
</tr>
<tr>
<td>5/BRN</td>
<td>N/C</td>
<td>N/C</td>
</tr>
<tr>
<td>6/SHIELD</td>
<td>N/C</td>
<td>N/C</td>
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</tbody>
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L = 0.75 TO 7.00 INCH PROBE LENGTH

REFERENCE SPECIFICATIONS

ELECTRICAL

- Supply Voltage:
  - 340T: 9-36 Vdc
  - 240T: 9-32 Vdc
- Output Signal:
  - 340T: 4-20 mA
  - 240T: 0-5Vdc, 0-10 Vdc
- Input Current (240T): 8 mA typical
- Load Impedance:
  - 340T: 750 Ω max. at 24 Vdc
  - 240T: 50K Ω at 24 Vdc
- Insulation Resistance: >100 MΩ at 50 Vdc and +70 °F (+21 °C)
- Response Time: < 2 sec
- Connection: 6-pin bendix PT1H-10-6P stainless steel or equivalent standard, options available

MECHANICAL

- Process Connection: 1/4” NPT (M) (other ports available)
- Probe Length: 3/4” thru 7”
- Approximate Weight: 5 ounces

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)

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: ±1% FSO

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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