

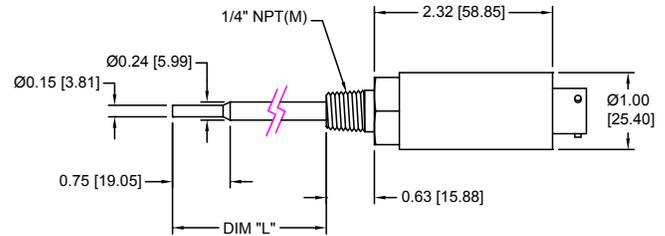
## MODEL 340T/AI/AF/AN HAZARDOUS LOCATION TEMPERATURE TRANSMITTER



### STANDARD WIRING

PIN	MODEL 240T	MODEL 340T
1/RED	+EXC	+EXC/SIG
2/GRN	+SIG	N/C
3/WHT	N/C	N/C
4/BLK	-EXC/SIG	-EXC/SIG
5/BRN	N/C	N/C
6/SHIELD	CASE GND	CASE GND

L = 0.75 TO 7.00 INCH PROBE LENGTH



Inches (mm)



**REF DIMENSIONS ONLY.  
CONSULT FACTORY FOR ACTUAL DIMENSIONS.**

### PRODUCT OVERVIEW:

The Model 340T/AI/AF/AN Hazardous Location Temperature Transmitter is essential where reliable and accurate process temperatures are required. With a large range of temperature ranges and probe lengths available the Model 340T/AI/AF/AN 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.

### 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)
- Probe lengths from 3/4" to 7" (19 mm to 178 mm)
- Accuracy ±1.0 % °F
- Probe pressure rated up to 10,000 PSI
- ATEX & IEC Approvals\*
- CE Compliance

### APPLICATIONS:

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

### OPTIONS:

- Probe lengths from 3/4" to 7"
- Temperature ranges from -40 °F to +300 °F (-40 °C to +149 °C)
- Alternate electrical connectors (Model 340T/AI only) and cable

\*For details of available approvals go to:  
<https://www.gp50.com/certifications>

# GP:50 MODEL 340T /AI/AF/AN

## REFERENCE SPECIFICATIONS

(Standard configurations shown, consult factory for other options)

ELECTRICAL	
Output Signal:	4-20 mA
Excitation Voltage:	10-28 Vdc
R <sub>Load</sub> max:	(4-20 mA) = ((Power supply Voltage - 9.0V) / .020) - Wire Resistance. (Options may affect this, consult factory)
Insulation Resistance:	> 100 MΩ @ 50 Vdc and +70 °F (+21 °C)
Response Time:	<2 sec

MATERIALS OF CONSTRUCTION	
Wetted Parts:	316L Stainless Steel
Housing:	300 Series Stainless Steel

ACCURACY (BFSL): Non-Linearity @ +70 °F	
Standard:	±1.0% FSO
Zero & Span Balance:	4.0 mA ±1% FSO

MECHANICAL	
Process Connection:	1/4" NPT (M) other ports available
Electrical Connection:	(340AI) 6-pin amphenol PT1H-10-6P stainless steel or equivalent standard, options available (340AF) 1/2" NPT (M) conduit with 18" 18 AWG multi-conductor wire
Probe Length:	3/4" thru 7"
Probe Pressure Rating:	3000 PSI maxi with 10K PSI optional
Approximate Weight:	5 oz (0.14 kg)

TEMPERATURE RANGES	
<ul style="list-style-type: none"> <li>• 0 °F to +250 °F (-18 °C to +121 °C)</li> <li>• 0 °F to +300 °F (-18 °C to +149 °C)</li> <li>• -40 °F to +180 °F (-40 °C to +82 °C)</li> <li>• -40 °F to +250 °F (-40 °C to +121 °C)</li> </ul>	

THERMAL SPECIFICATIONS	
Operating Ambient:	max. +185 °F (+85 °C)
Operating Process:	max. +300 F (+149 C)

APPROVALS	
ATEX/IEC Intrinsically Safe: II 1 G Ex ia IIC T5 Ga (Model 340T/AI)	
ATEX/IEC Flameproof: II 2 G Ex b T4 to T6 (Model 340T/AF)	
ATEX Zone 2: II 3 G Ex nA/ic IIC T5 Gc	

