# **TRANSMITTERS**

143

# SLIMLINE TEMPERATURE TRANSMITTER

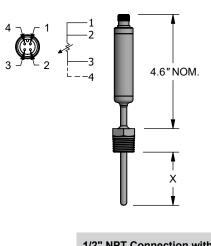
Reotemp's Slimline Temperature Transmitter is a compact, rugged transmitter for applications where space is limited. The fully sealed design keeps out any water, liquids or moisture. It's great for applications where the transmitter is exposed to the elements or equipment is washed down. Our thick-walled 316SS construction makes this transmitter shock and vibration resistant, increasing product longevity.



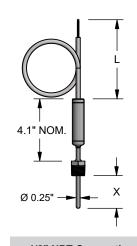


### **FEATURES / BENEFITS**

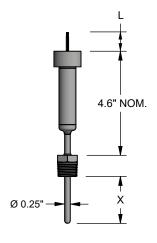
- · Minimal Installation Space Required
- Rugged, Vibration & Impact Resistant Transmitters
- Hermetically Sealed (IP67)
- All-Welded 316SS Construction
- 4-20mA Linearized Two Wire Output
- Wide Temperature Range with High Accuracy
- A Variety of Process Connections and Electrical Terminations



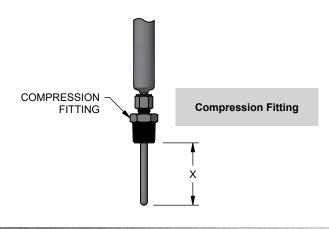
1/2" NPT Connection with M12 Out

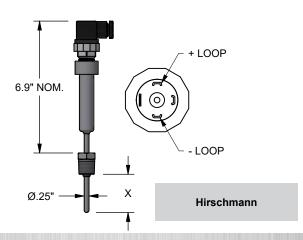


1/2" NPT Connection with Lead Wire Out



1/2" NPT Connection with 1/2" NPT Conduit Out





# **SLIMLINE TEMPERATURE TRANSMITTER**

### **SENSOR SPECIFICATIONS**

<b>Environmental Conditions</b>		
Maximum Process Temperature	-328/400°F	
Con	nmon Specifications	
Wire Types	Teflon insulated 24 AWG stranded, PVC insulated 24 AWG Stranded, or Teflon insulated 24 AWG Stranded with Aluminum Mylar Shield and Drain Wire	
Wetted Material	316 Stainless Steel	
Housing Material	316 Stainless Steel	
RTD Accuracy	Class A = ± (0.15 + 0.002 t )°C [-30/200°C] 1/10 B = ± (0.03 + 0.0005 t )°C [ 0/50°C] Outside of Stated Ranges = ± (0.3 + 0.005 t )°C [ -200/200°C]	
In	put Specifications	
RTD Type	Pt100, Ni100	

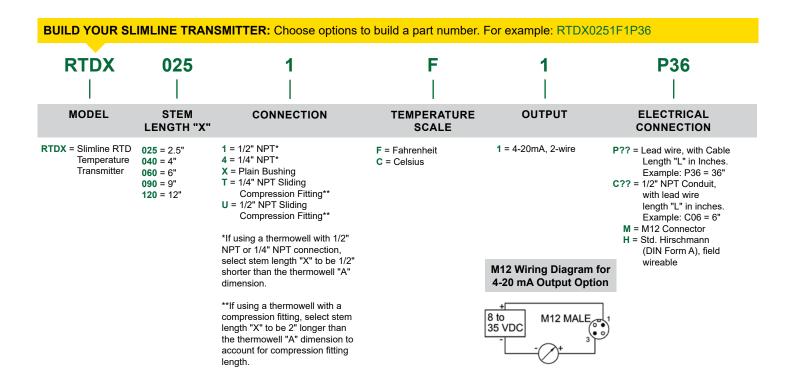
Observed Authority Requirements	
RoHS	2011/65/EU

# TRANSMITTER SPECIFICATIONS

Environn	nental Conditions
Ambient Temperature	-40/185°F
Relative humidity	<95% relative humidity (non-condensing)
Commo	n Specifications
Supply Voltage	8.0 to 35 VDC
Internal Power Dissipation	25 mW to 0.8 W
Response Time (Programmable)	0.33 to 60s
Voltage Drop	8.0 VDC
Warm-up Time	5 min.
Effect of Supply Voltage Change	< 0.005% of Span / VDC
Accuracy	Better than 0.1% of selected range + RTD Accuracy
EMC Immunity Influence	<±0.5% of Span

Output	Specifications
Updating Time	135 ms
Signal Range	4-20 mA
Min. Signal Range	16 mA
Load (@ current output)	$\leq$ (Vsupply - 8) / 0.023 [ $\Omega$ ]
Load Stability	≤ 0.01% of span /100Ω
Sensor Error Indication	Programmable 3.5 to 23 mA
NAMUR NE43 Upscale/ Downscale	23 mA / 3.5 mA
Of Span	= of the presently selected range
Input \$	Specifications
Cable Resistance Per Wire	10 Ω (max.)
Sensor Current	> 0.2 mA, < 0.4 mA
Effect of Sensor Cable Resistance (3-wire)	< 0.002 Ω/Ω
Sensor Error Detection	Yes
Max. Offset	50% of selected max. value

## SLIMLINE TEMPERATURE TRANSMITTER



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