



## SERIES 800

### HIGH PERFORMANCE PLATINUM RESISTANCE TEMPERATURE TRANSMITTERS

The NOSHOK Series 800 temperature transmitter provides an unbeatable level of performance at an economical price. Using the proven reliability and stability of 100 ohm platinum resistance technology, this transmitter offers a broad array of choices for the OEM and user alike.

A rigorous test and inspection process is performed on all NOSHOK temperature transmitters prior to shipment to further ensure 100% “out of the box” reliability.

#### SPECIFICATIONS

<b>Output signals</b>	4 mA to 20 mA 2-wire, 0 Vdc to 5 Vdc 3-wire 0 Vdc to 10 Vdc 3-wire, 1 Vdc to 5 Vdc 3-wire
<b>Temperature ranges</b>	Standard ranges from -40 °F to 1000 °F
<b>Accuracy</b>	
Measuring Element	Class B per EN 60751 (IEC 751) ±[0.30 +0.005* t ] °C
Output	±0.25% Full Scale
<b>Sensor protection</b>	Burnout protected from 3.3 mA to 23 mA
<b>Power supply</b>	10 Vdc to 30 Vdc for 4 mA to 20 mA, 0 Vdc to 5 Vdc, unregulated, 1 Vdc to 5 Vdc 12 Vdc to 30 Vdc for 0 Vdc to 10 Vdc, unregulated
<b>Load limitations</b>	≤ (VPower -10)/0.020 Amp for 4 mA to 20 mA output ≤ 5,000 Ω for 1 Vdc to 5 Vdc output ≤ 10,000 Ω for 0 Vdc to 10 Vdc output ≤ 4,500 Ω for 0.5 Vdc to 4.5 Vdc output
<b>Wetted materials</b>	316 stainless steel
<b>Housing material</b>	316 stainless steel
<b>Ambient Temperature</b>	-40 °F to 185 °F (-40 °C to 85 °C)
<b>Storage Temperature</b>	-40 °F to 185 °F (-40 °C to 85 °C)
<b>Environmental rating</b>	IP65 according to EN 60529/IEC 529
<b>Electromagnetic rating</b>	CE compliant to EMC norm EN 61326:1997/A1:1998 RFI, EMI and ESD protection
<b>Electrical protection</b>	Reverse polarity, over-voltage and short circuit protection
<b>Weight</b>	Approximately 4 oz.

#### FEATURES

- Proven platinum 100 ohm sensor
- Maximum reliability
- Wide variety of temperature ranges and connections
- CE compliant
- Quick response time

#### APPLICATIONS

- Water systems
- Storage tanks
- Industrial machinery and machine tools
- HVAC systems
- Refrigeration systems



Also available with our 1800 Series Attachable Loop Indicator. See page 44 for more information.

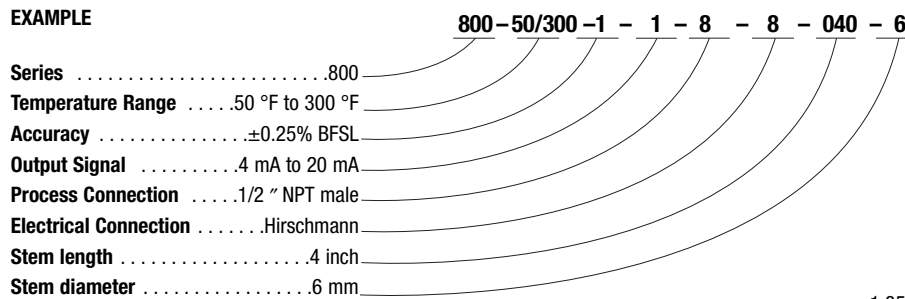


Optional USB programmable output

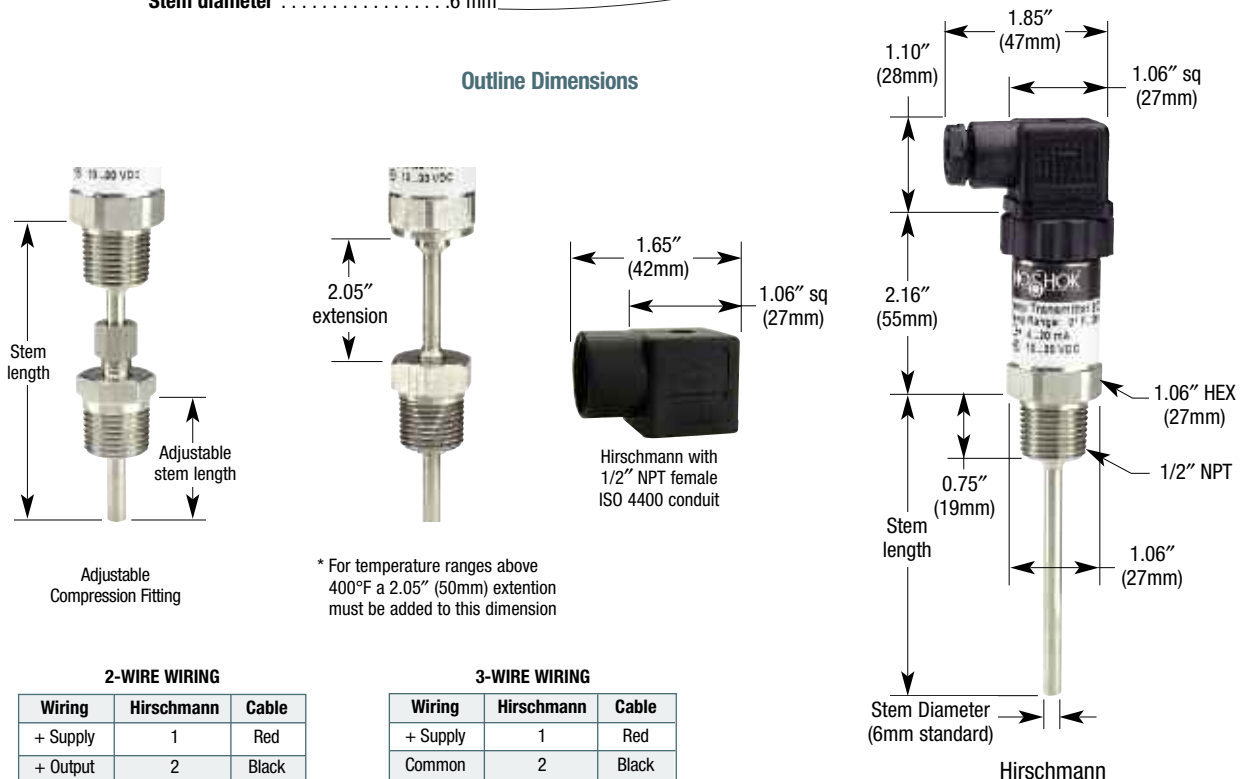
ORDERING INFORMATION								
<b>SERIES 800</b>								
<b>TEMPERATURE RANGES</b>	-40/120°F	<b>-40/120</b>	0/200°F	<b>0/200</b>	0/300°F	<b>0/300</b>	0/750°F	<b>0/750</b>
	25/125°F	<b>25/125</b>	20/240°F	<b>20/240</b>	50/300°F	<b>50/300</b>	0/1000°F	<b>0/1000</b>
	0/140°F	<b>0/140</b>	0/250°F	<b>0/250</b>	50/500°F	<b>50/500</b>		
	Other ranges available on special request							
<b>ACCURACY</b>	<b>1</b> Class B + (±0.25 % BFSL)							
<b>OUTPUT SIGNALS</b>	<b>1</b> 4 mA to 20 mA, 2-wire	<b>2</b> 0 Vdc to 5 Vdc, 3-wire	<b>3</b> 1 Vdc to 5 Vdc, 3-wire	<b>5</b> 0 Vdc to 10 Vdc, 3-wire	<b>34</b> 4 mA to 20 mA, 2-wire, USB programmable			
<b>PROCESS CONNECTIONS</b>	<b>2</b> 1/4 " NPT male			<b>8</b> 1/2 " NPT male				
	<b>48</b> 1/2 " NPT male w/Adjustable Compression Fitting							
<b>ELECTRICAL CONNECTIONS</b>	<b>1</b> 36 " cable (connected to option 8)			<b>8</b> Hirschmann (DIN EN 175301-803 Form A)		<b>14</b> Hirschmann connection w/ISO 4400 1/2 " NPT conduit		
<b>STEM LENGTH</b>	<b>025</b> 2.5 inch		<b>060</b> 6 inch		<b>120</b> 12 inch			
	<b>040</b> 4 inch		<b>090</b> 9 inch					
<b>STEM DIAMETER</b>	<b>3</b> Tapered from 6mm - 3mm tip			<b>6</b> 6 mm		<b>8</b> 8 mm		

Please consult your local NOSHOK Distributor or NOSHOK, Inc. for availability and delivery information.

**EXAMPLE**



**Outline Dimensions**



Optional thermowells available in 316 SS, 304 SS and Brass.