



## Platinum Resistance Temperature Transmitters



## 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.

### FEATURES

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

### APPLICATIONS

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

### 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>	Class B (±0.5 % Full Scale)
<b>Sensor protection</b>	Burnout protected from 3.3 mA to 23 mA
<b>Power supply</b>	12 Vdc to 30 Vdc for 4 mA to 20 mA, 0 Vdc to 5 Vdc, 1 Vdc to 5 Vdc 14 Vdc to 30 Vdc for 0 Vdc to 10 Vdc
<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.

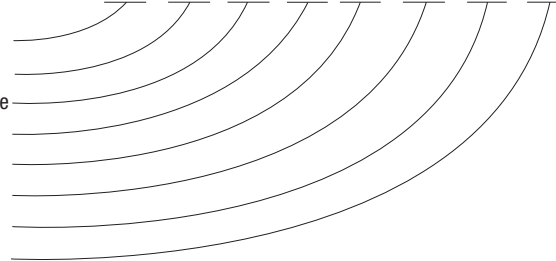
ORDERING INFORMATION								
<b>SERIES 800</b>								
<b>TEMPERATURE RANGES</b>	-40°/120°F 25/125°F 0/140°F	<b>-40/120</b> <b>25/125</b> <b>0/140</b>	0/200°F 20/240°F 0/250°F	<b>0/200</b> <b>20/240</b> <b>0/250</b>	0/300°F 50/300°F 50/500°F	<b>0/300</b> <b>50/300</b> <b>50/500</b>	0/750°F 0/1000°F	<b>0/750</b> <b>0/1000</b>
Other ranges available on special request								
<b>ACCURACY</b>	1 Class B (±0.5 % Full Scale)							
<b>OUTPUT SIGNALS</b>	1 4 mA to 20 mA, 2-wire		2 0 Vdc to 5 Vdc		3 1 Vdc to 5 Vdc		5 0 Vdc to 10 Vdc, 3-wire	
<b>PROCESS CONNECTIONS</b>	2 1/4 " NPT male (available with 3mm stem diameter only)				8 1/2 " NPT male			
48 1/2 " NPT male w/Adjustable Compression Fitting								
<b>ELECTRICAL CONNECTIONS</b>	1 36 " cable (connected to option 8)			8 Hirschmann w/mating connector				
<b>STEM LENGTH</b>	<b>025</b> 2.5 inch <b>040</b> 4 inch	<b>060</b> 6 inch <b>090</b> 9 inch	<b>120</b> 12 inch					
<b>STEM DIAMETER</b>	3 3 mm		6 6 mm		8 8 mm			

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

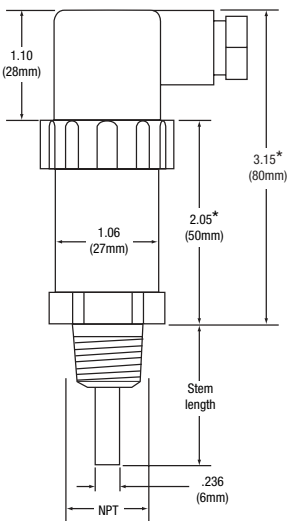
**EXAMPLE**

**Series** 800  
**Temperature Range** 50 °F to 300 °F  
**Accuracy** ±0.5% Full Scale  
**Output Signal** 4 mA to 20 mA  
**Process Connection** 1/2 " NPT male  
**Electrical Connection** Hirschmann  
**Stem length** 4 inch  
**Stem diameter** 8 mm

800 50/300 1 1 8 8 040 8

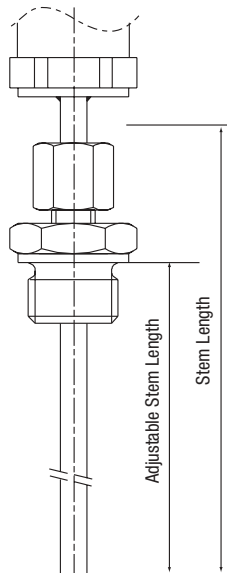


**Outline Dimensions**

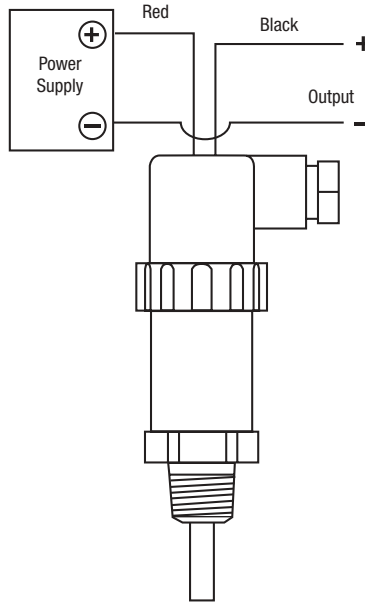


\* For temperature ranges above 400°F a 2.05" (50mm) extension must be added to this dimension

**Adjustable Compression Fitting**

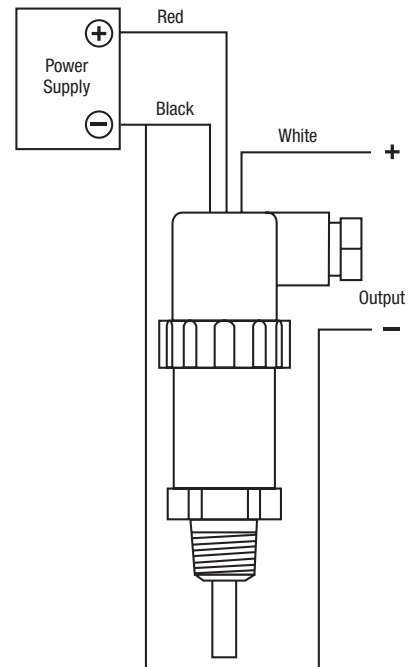


**2-Wire**



Wiring	Hirschmann	Cable
+ Supply	1	Red
+ Output	2	Black

**3-Wire**



Wiring	Hirschmann	Cable
+ Supply	1	Red
+ Output	3	White
Common	2	Black