



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

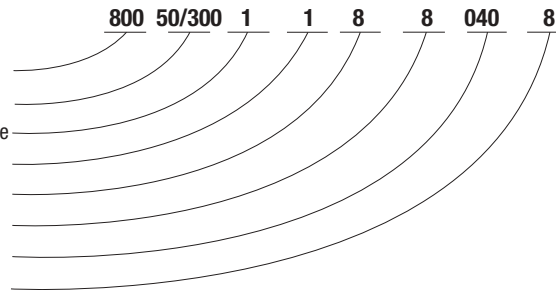
Output signals	4 mA to 20 mA 2-wire, 0 Vdc to 5 Vdc 3-wire 0 Vdc to 10 Vdc 3-wire, 1 Vdc to 5 Vdc 3-wire
Temperature ranges	Standard ranges from -40 °F to 1000 °F
Accuracy	Class B (±0.5 % Full Scale)
Sensor protection	Burnout protected from 3.3 mA to 23 mA
Power supply	12 Vdc to 30 Vdc for 4 mA to 20 mA, 0 Vdc to 5 Vdc, 1 Vdc to 5 Vdc 14 Vdc to 30 Vdc for 0 Vdc to 10 Vdc
Wetted materials	316 stainless steel
Housing material	316 stainless steel
Ambient Temperature	-40 °F to 185 °F (-40 °C to 85 °C)
Storage Temperature	-40 °F to 185 °F (-40 °C to 85 °C)
Environmental rating	IP65 according to EN 60529/IEC 529
Electromagnetic rating	CE compliant to EMC norm EN 61326:1997/A1:1998 RFI, EMI and ESD protection
Electrical protection	Reverse polarity, over-voltage and short circuit protection
Weight	Approximately 4 oz.

ORDERING INFORMATION								
SERIES 800								
TEMPERATURE RANGES	-40°/120°F 25/125°F 0/140°F	-40/120 25/125 0/140	0/200°F 20/240°F 0/250°F	0/200 20/240 0/250	0/300°F 50/300°F 50/500°F	0/300 50/300 50/500	0/750°F 0/1000°F	0/750 0/1000
Other ranges available on special request								
ACCURACY	1 Class B (±0.5 % Full Scale)							
OUTPUT SIGNALS	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	
PROCESS CONNECTIONS	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								
ELECTRICAL CONNECTIONS	1 36 " cable (connected to option 8)			8 Hirschmann w/mating connector				
STEM LENGTH	025 2.5 inch 040 4 inch	060 6 inch 090 9 inch	120 12 inch					
STEM DIAMETER	3 3 mm		6 6 mm		8 8 mm			

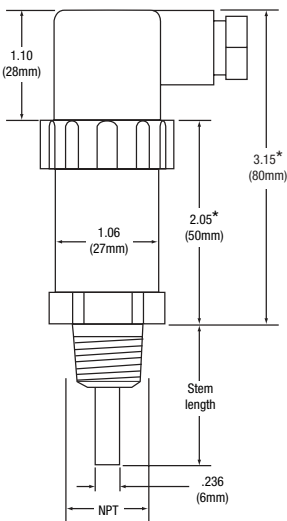
Please consult your local NOSHOK Distributor or NOSHOK, Inc. for availability and delivery information.

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

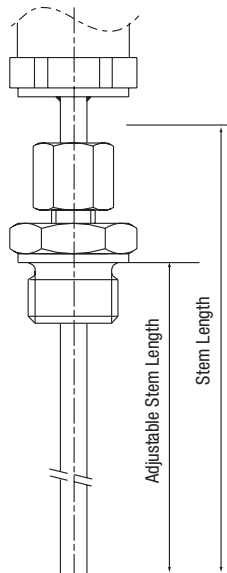


Outline Dimensions

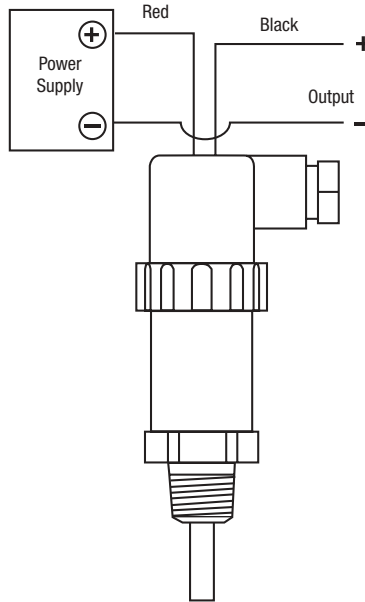


* For temperature ranges above 400°F a 2.05" (50mm) extension must be added to this dimension

Adjustable Compression Fitting

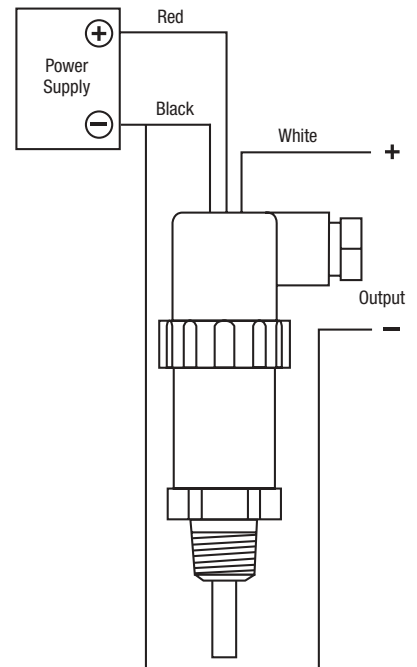


2-Wire



Wiring	Hirschmann	Cable
+ Supply	1	Red
+ Output	2	Black

3-Wire



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