



800 SERIES

- Proven 100 Ω platinum resistance sensor provides reliability, stability and unbeatable performance
- Economical price
- Standard temperature ranges from -40 °F to 1,000 °F
- Wide variety of temperature ranges and connections
- Quick response time
- Optional USB programmable output available
- 316 stainless steel housing
- Burnout protection from 3.3 mA to 23 mA
- Also available with our 1800 Series attachable loop indicator
- CE compliant to suppress RFI, EMI, and ESD
- Final calibration tests prior to shipment ensures 100% "out of the box" reliability

TRANSCAT

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35 Vantage Point Drive // Rochester, NY 14624 // Call 1.800.800.5001

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 1,000 °F
Accuracy	
Measuring element	Class B per EN 60751 (IEC 751)
Output	$\pm[0.30 + 0.005 \cdot t]$ °C $\pm 0.5\%$ full scale
Sensor protection	Burnout protected from 3.3 mA to 23 mA
Power supply*	10 Vdc to 30 Vdc (4 mA to 20 mA, 2-wire) 10 Vdc to 30 Vdc (0 Vdc to 5 Vdc, 3-wire) 10 Vdc to 30 Vdc (1 Vdc to 5 Vdc, 3-wire) 14 Vdc to 30 Vdc (0 Vdc to 10 Vdc, 3-wire)
Load limitations	$\leq (V_{Power} - 10)/0.020$ Amp for 4 mA to 20 mA output $\leq 5,000 \Omega$ for 1 Vdc to 5 Vdc output $\leq 10,000 \Omega$ for 0 Vdc to 10 Vdc output $\leq 4,500 \Omega$ for 0.5 Vdc to 4.5 Vdc output
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.

* Unregulated power supplies

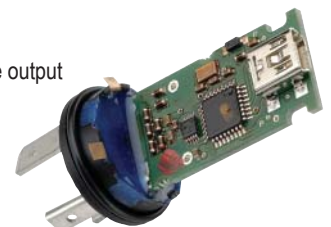
APPLICATIONS

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



Also available with our 1800 Series attachable loop indicator. See www.noshok.com for details.

Optional USB programmable output

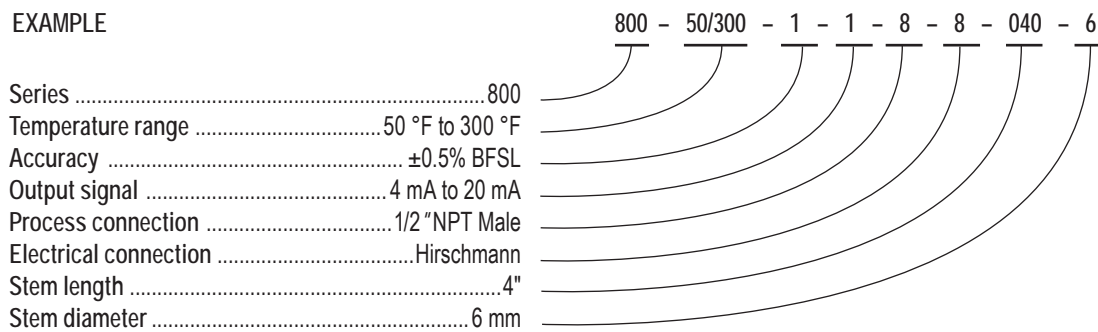


Thermowells are recommended for pressure, corrosive fluids and high velocity applications, see pages 34-35.

ORDERING INFORMATION								
SERIES	800							
TEMPERATURE RANGES	-40/120	-40 °F to 120 °F	0/200	0 °F to 200 °F	0/300	0 °F to 300 °F	0/750	0 °F to 750 °F
	25/125	25 °F to 125 °F	20/240	20 °F to 240 °F	50/300	50 °F to 300 °F	0/1000	0 °F to 1,000 °F
	0/140	0 °F to 140 °F	0/250	0 °F to 250 °F	50/500	50 °F to 500 °F	Custom ranges available on request (30K minimum span)	
ACCURACY	1 Class B + (±0.5% BFSL)							
OUTPUT SIGNALS	1	4 mA to 20 mA, 2-wire	3	1 Vdc to 5 Vdc, 3-wire	34	4 mA to 20 mA, 2-wire, USB programmable		
	2	0 Vdc to 5 Vdc, 3-wire	5	0 Vdc to 10 Vdc, 3-wire				
PROCESS CONNECTIONS	2	1/4" NPT Male	48			1/2" NPT Male w/adjustable compression fitting		
	8	1/2" NPT Male						
ELECTRICAL CONNECTIONS	1	36" cable (connected to option 8)	14				Hirschmann connection w/ISO 4400 1/2" NPT conduit	
	8	Hirschmann (DIN EN 175301-803 Form A)						
STEM LENGTHS	025	2.5"	060	6"	120	12"		
	040	4"	090	9"				
STEM DIAMETERS	3	Tapered from 6 mm - 3 mm tip	6	6 mm	8	8 mm		

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

EXAMPLE



800 Series Platinum Resistance Temperature Transmitter

