



800 SERIES

- Proven 100 Ω platinum resistance sensor provides reliability, stability and unbeatable performance
- Economical price
- Standard temperature ranges from -40 °F to 120 °F through 50 °F to 400 °F
- Wide variety of temperature ranges and connections
- Quick response time
- 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

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.

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 400 °F
Accuracy	
Measuring element	Class B per EN 60751 (IEC 751)
Output	±[0.30 +0.005* t] °C ±0.5% full scale
Sensor protection	Burnout protected from 3.3 mA to 23 mA
Power requirement*	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	≤ (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
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.

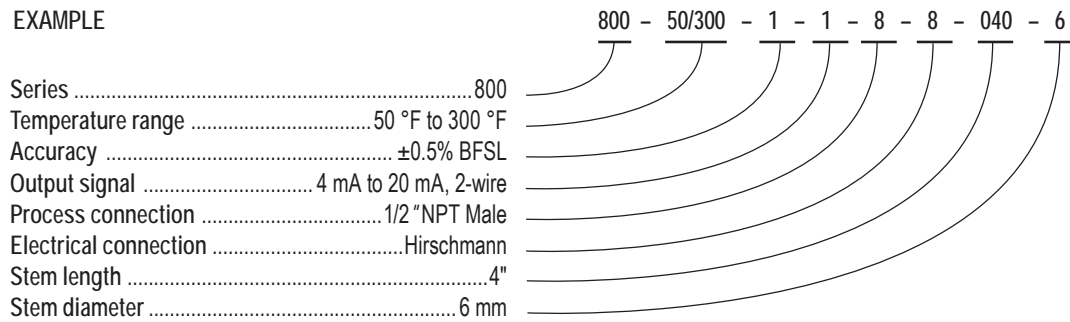
* Unregulated

Thermowells are recommended for pressure, corrosive fluids and high velocity applications, see pages 46-48.

ORDERING INFORMATION						
SERIES	800					
TEMPERATURE RANGES	-40/120	-40 °F to 120 °F	0/200	0 °F to 200 °F	25/125	20 °F to 240 °F
	0/100	0 °F to 100 °F	0/250	0 °F to 250 °F	50/300	50 °F to 300 °F
	0/140	0 °F to 140 °F	20/240	20 °F to 240 °F	50/400	50 °F to 400 °F
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		
	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)			25	M12 x 1 (4-pin)
STEM LENGTHS	025	2.5"	060	6"	120	12"
	040	4"	090	9"		
STEM DIAMETERS	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

