



## 810 SERIES

- Compact size, economical price
- Proven 100  $\Omega$  platinum resistance sensor provides reliability, stability and unbeatable performance
- Standard temperature ranges from -25 °F to 125 °F through 0° F to 250 °F
- 4 mA to 20 mA transmitter included
- 316 stainless steel housing
- CE compliant to suppress RFI, EMI, and ESD

### APPLICATIONS

- Mobile hydraulics
- Automotive
- Heat exchangers
- HVAC
- Transportation
- Refrigeration controls

### SPECIFICATIONS

Output signal	4 mA to 20 mA, 2-wire	
Temperature ranges	Standard ranges from -25 °F to 250°F (-30 °C to 120°C)	
Accuracy	Measuring element	PT100 Class B $\pm[0.30 + 0.005 \cdot  t ]$ °C
	Output	$\pm 1.5\%$ full scale
Failure signal	Sensor burnout	23 mA
	Sensor short circuit	3.3 mA
Power requirement*	10 Vdc to 36 Vdc	
Load limitations	$\leq (V_{power} - 10)/0.020$ A	
Wetted materials	316 stainless steel	
Housing material	316 stainless steel	
Ambient temperature	Maximum 185 °F (85 °C)	
Storage temperature	-40°F to 185 °F (-40°C to 85 °C)	
Electromagnetic rating	CE compliant to EMC norm DIN EN 61326 RFI, EMI and ESD protection	
Electrical protection	Reverse polarity, over-voltage and short circuit protection	
Pressure rating	8,700 psi (600 bar) <sup>1</sup>	

\* Unregulated

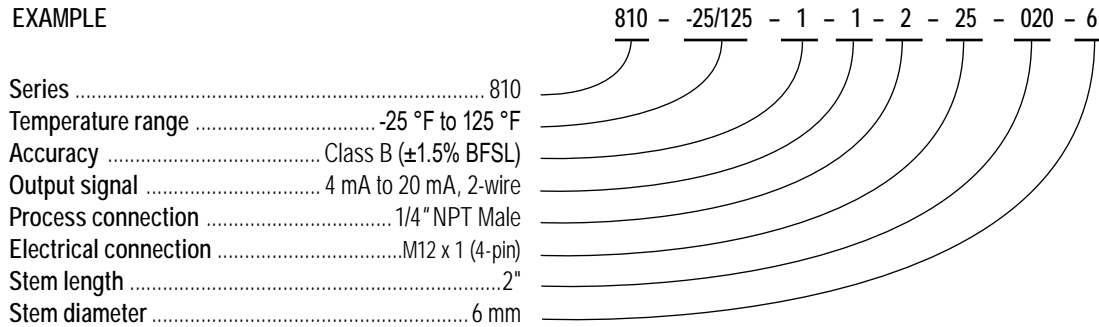
<sup>1</sup> Pressure rating may vary based on the process medium, temperature and flow rate.

Thermowells are recommended for pressure, corrosive fluids and high velocity applications, see pages 36-37.

ORDERING INFORMATION			
SERIES	810		
TEMPERATURE RANGES	-25/125 -25 °F to 125 °F	0/140 0 °F to 140 °F	0/250 0 °F to 250 °F
	Custom ranges available on request (54 °F minimum span)		
ACCURACY	1 Class B + (±1.5% BFSL)		
OUTPUT SIGNAL	1 4 mA to 20 mA, 2-wire		
PROCESS CONNECTION	2 1/4" NPT Male		
ELECTRICAL CONNECTION	25 M12 x 1 (4-pin)		
STEM LENGTHS	010 1"	020 2"	
STEM DIAMETER	6 6 mm		

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

**EXAMPLE**



## 810 Series Compact OEM Temperature Transmitter

