



## 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

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



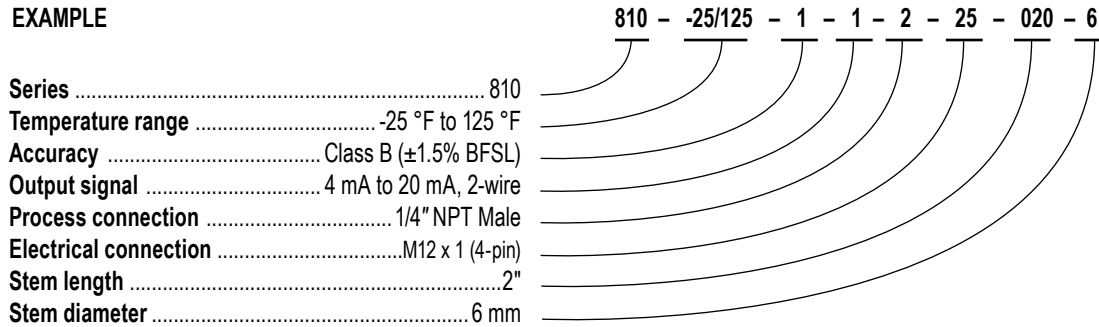
**WARNING:** This product can expose you to chemicals including Chromium (VI) and Nickel, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

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

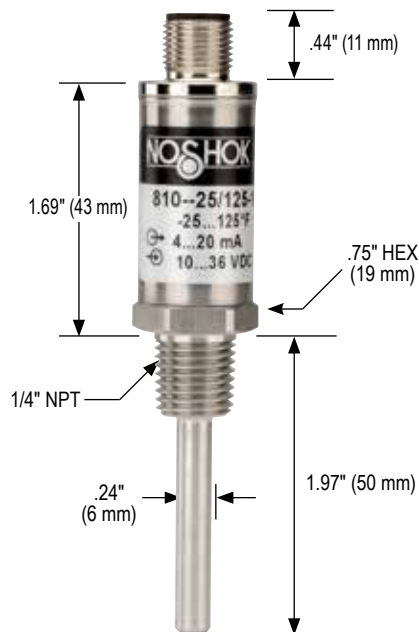
ORDERING INFORMATION			
SERIES	810		
TEMPERATURE RANGES	-25/125 -25 °F to 125 °F	0/140 0 °F to 140 °F	0/250 0 °F to 250 °F
	Custom ranges available on request (54 °F minimum span)		
ACCURACY	1 Class B + (±1.5% BFSL)		
OUTPUT SIGNAL	1 4 mA to 20 mA, 2-wire		
PROCESS CONNECTION	2 1/4" NPT Male		
ELECTRICAL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



**Wiring -  
M12 x 1 (4-pin)  
round connector**

**Current output, 2 wire**

