

## SERIES <br>  <br> 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.

| 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 $-40^{\circ} \mathrm{F}$ to $1000{ }^{\circ} \mathrm{F}$ |
| Accuracy |  |
| Measuring Element | Class B per EN 60751 (IEC 751) $\pm\left[0.30+0.005^{*} \mathrm{tt}\right]{ }^{\circ} \mathrm{C}$ |
| Output | $\pm 0.5 \%$ Full Scale |
| Sensor protection | Burnout protected from 3.3 mA to 23 mA |
| Power supply | 10 Vdc to 30 Vdc for 4 mA to $20 \mathrm{~mA}, 0 \mathrm{Vdc}$ to 5 Vdc , unregulated, 1 Vdc to 5 Vdc 12 Vdc to 30 Vdc for 0 Vdc to 10 Vdc , unregulated |
| Load limitations | $\begin{aligned} & \leq \text { VPower - } 10) / 0.020 \text { Amp for } 4 \mathrm{~mA} \text { to } 20 \mathrm{~mA} \text { output } \\ & \leq 5,000 \Omega \text { for } 1 \mathrm{Vdc} \text { to } 5 \mathrm{Vdc} \text { output } \\ & \leq 10,000 \Omega \text { for } 0 \mathrm{Vdc} \text { to } 10 \mathrm{Vdc} \text { output } \\ & \leq 4,500 \Omega \text { for } 0.5 \mathrm{Vdc} \text { to } 4.5 \mathrm{Vdc} \text { output } \end{aligned}$ |
| Wetted materials | 316 stainless steel |
| Housing material | 316 stainless steel |
| Ambient Temperature | $-40^{\circ} \mathrm{F}$ to $185^{\circ} \mathrm{F}\left(-40^{\circ} \mathrm{C}\right.$ to $\left.85^{\circ} \mathrm{C}\right)$ |
| Storage Temperature | $-40^{\circ} \mathrm{F}$ to $185^{\circ} \mathrm{F}\left(-40^{\circ} \mathrm{C}\right.$ to $\left.85^{\circ} \mathrm{C}\right)$ |
| Environmental rating | IP65 according to EN 60529/EC 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 40 oz. |



ORDERING INFORMATION DIMENSIONS


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


Optional thermowells available in 316 SS, 304 SS and Brass.

Temperature

# Electronic Indicating Temperature Switch/Transmitter 

FEATURES
$\begin{array}{ll}\text { FEATURES } & \text { APPLICATIONS } \\ \square \text { Compact dimensions } & \square \text { Mechanical engineering } \\ \square \text { Simple handling } & \square \text { Heating and cooling } \\ \square \text { Cost effective } & \text { circuits } \\ \square \text { Service-friendly } & \text { Air conditioning } \\ \square \text { Customized solutions } & \square \text { Plant construction } \\ & \square \text { Environmental technology }\end{array}$

## TEMPERATURE RANGES

-50 to $+400^{\circ} \mathrm{F}$
-50 to $+1100^{\circ} \mathrm{F}$
-50 to $+750^{\circ} \mathrm{F}$
-300 to $+1100^{\circ} \mathrm{F}$


## SERIES:50



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| EXAMPLE |  |
| :---: | :---: |
| Series | 850 |
| Switch Function | 2 N.O. or N.C. (PNP) |
| Process Connection | . 1/4 " NPT Male |
| Temperature Range | $-50^{\circ} \mathrm{F}$ to $400^{\circ} \mathrm{F}$ |
| Electrical Connection | . . M12 x 1 (4-pin) |
| Stem Length | . . . . . 2.5" |
| Stem Diameter | 6 mm |



Stem Diameter 6 mm

Outline Dimensions
Wiring Diagrams


1 switching output (M12 $\times 1$ ) with $\mathbf{4 m A}$ to $\mathbf{2 0} \mathbf{~ m A ~ S i g n a l ~}$ p-switching


2 switching output (M12 x 1) p-switching


