Electronic Indicating Temperature Transmitter/Switch





FEATURES

- Compact dimensions
- Simple handling
- Cost effective
- Service-friendly
- Customized solutions

TEMPERATURE RANGES

-50 °F to 400 °F

-50 °F to 1,100 °F

-50 °F to 750 °F

-300 °F to 1,100 °F

Protective Cover Option

- Made of a thermoplastic polyurethane (TPU) material which is resistant to oil, grease and abrasion
- Protects the sensor while maintaining clear viewing and rotation of the display
- The elastic properties of the material allows set point programming without having to remove the cover
- Increases environmental protection to IP67 for indoor and outdoor use



Mechanical engineering

 Heating and cooling circuits

Air conditioning

Plant constructionEnvironmental technology

technology

850 SERIES

- Utilizes PT100 technology to provide continuous temperature monitoring, electronic temperature switching, and transmission of analog output of 4-20 mA while providing local digital indication
- · Allows for one or two switching outputs as well as an optional analog output
- Two buttons on top allow simple adjustment of the temperature set points, reset points, switching functions and the measuring range of the optional analog output
- Wide measuring range (between -300 °F and 1,100 °F / -200 °C and 600 °C) covers the majority of temperature measuring and switching applications
- 1/2" NPT male standard connection, 1/4" NPT optional
- A variety of stem lengths are available for maximum versatility (also available with adjustable insertion lengths)
- · A version with tapered stem is also available for rapid response times
- · Durable stainless steel housing and wetted parts
- The housing and replaceable measuring insert are screwed together to allow the exchange of the measuring insert without opening the connection to the process

SPECIFICATIONS						
Temperature ranges	Standard ranges from -300 °F to 1,100 °F (-200 °C to 600 °C) Selectable display for °F or °C					
Temperature sensor	Platinum resistor (PT100 2-wire, Class B)					
Wetted materials	316Ti Stainless steel					
Housing material	Stainless steel					
Working pressure	6 mm Stem Diameter; 600 psi 8 mm Stem Diameter; 1,500 psi					
Power supply*	12 Vdc to 30 Vdc, unregulated					
Power consumption	≤ 50 mA, without load					
Signal output	4 mA to 20 mA scaleable from 20-100% of range					
Switch Points Number Function Adjustment	Individually adjustable via external control keys 1 or 2 (PNP) NO / NC; windows-and hysteresis function freely adjustable Set point: 0.1° steps within temperature range Reset point: 0.1° steps from beginning temperature range until (set point -0.1°)					
Switch rating	100 mA per switch					
Electrical connection	M12 x 1 (4-pin)					
Accuracy	Class B +0.1% of the temperature range					
Display	7 Segment-LED, red 4-digit, height 0.3"					
Temperature ranges Storage Ambient Influence	-22 °F to 176 °F (-30 °C to 80 °C) -13 °F to 158 °F (-25 °C to 70 °C) ±0.006% of measuring range per °F					
Environmental protection	NEMA 4; IP65 (IEC 529)					
Weight	0.66 lb. depending on stem length					

^{*} Unregulated power supply

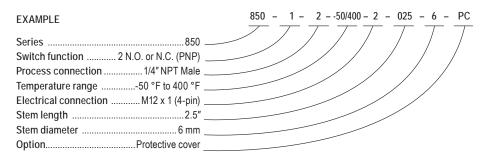
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850 SERIES

WIRING DIAGRAMS
ELECTRICAL CONNECTIONS

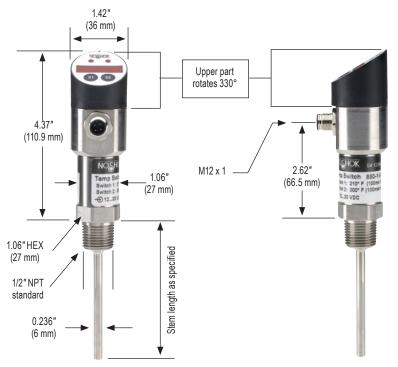
ORDERING INFORMATION								
SERIES	850							
SWITCH FUNCTIONS	1	2 N.O. or N.C. switch-PNP						
	2	2 1 N.O. or N.C. switch-PNP (with 4 mA to 20 mA analog output)						
PROCESS CONNECTIONS	2	1/4" NPT Male	8	1/2" NPT Male				
TEMPERATURE RANGES	-50/400	-50 °F to 400 °F	32/1100	32 °F to 1,100 °F				
	32/750	32 °F to 750 °F	-300/1100	-300 °F to 1,100 °F				
ELECTRICAL CONNECTION	2	M12 x 1 (4-pin)						
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			
OPTION	PC	Protective Cover (IP67)						

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



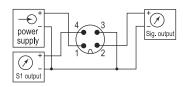
Additional Ordering Information Switch Set Point(s) (please specify)

Outline Dimensions



Wiring Diagrams

1 switching output (M12 x 1) with 4 mA to 20 mA Signal p-switching



2 switching output (M12 x 1) p-switching

