Electronic Temperature Measurement Electronic Indicating Temperature Transmitter/Switch



APPLICATIONS

- Mechanical engineering
- Heating and cooling circuits
- Air conditioning technology
- Plant construction
- Environmental technology

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



B50 SERIES

- Utilizes PT100 technology to provide continuous temperature monitoring, electronic temperature switching, and transmission of analog output of 4 mA to 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 requirement*	12 Vdc to 30 Vdc			
Power consumption	≤ 50 mA, without load			
Signal output	4 mA to 20 mA scalable from 20-100% of range			
Switch points Number Function Adjustment	Individually adjustable via external control keys 1 or 2 (PNP) N.O. / N.C.; 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 +0.25% 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	Approximately 0.66 lb.			

* Unregulated



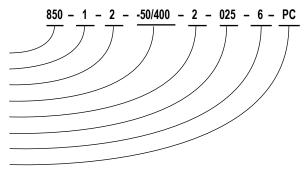
WARNING: This product can expose you to chemicals including Chromium (VI) and Nickel, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

ORDERING INFORMATION							
SERIES	850						
SWITCH FUNCTIONS	1	2 N.O. or N.C. switch-PNP					
	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)	3	M12 x 1(5-pin, 2 switch and	d output)		
STEM LENGTHS	25mm	25 millimeters	100mm	100 millimeters	250mm	250 millimeters	
	50mm	50 millimeters	150mm	150 millimeters	350mm	350 millimeters	
STEM DIAMETERS	6	6 mm					

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

EXAMPLE

Series	
Switch function	2 N.O. or N.C. (PNP)
Process connection	1/4" NPT Male
Temperature range	50 °F to 400 °F
Electrical connection	M12 x 1 (4-pin)
Stem length	2.5"
Stem diameter	6 mm
Option	Protective Cover



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

