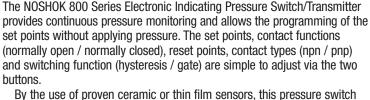
Electronic Indicating Pressure Switch/Transmitter



SERIES 800/810

Switching Output Options Available:

- 2 switching outputs
- 1 switching output and 1 analog output (4...20 mA or 0...10 V)
- 2 switching outputs and 1 analog output (4...20 mA)



By the use of proven ceramic or thin film sensors, this pressure switch features a high level of repeatability and durability. The turnable display and the optional turnable process connection allow ease of installation and wiring.



FEATURES

- Pressure Ranges from -14.5 psig to 9999 psig
- 330° Rotatable Display-Head
- Integrated Password Protection
- Simple 2-Key Programming
- Four-Digit LED-Display
- Scaleable Analog Output
- Fast Response Time

OPTIONAL FEATURES

- 330° Rotatable Pressure Connection
- Minimum/Maximum Value Memory
- Output Dampening up to 2,000 msec
- Switching Time Delay

APPLICATIONS

- Hydraulic and Pnuematic Systems
- Molding and Extruding Equipment
- Stamping and Forming
- Pumps and Compressors
- HVAC
- Power Generation
- Transportation Equipment
- Marine

	SPECIFICATIONS		
Pressure Ranges	Standard gauge ranges from -14.5 psig to 30 psig through		
. roodard rianged	O psig to 9999 psig		
Pressure Sensor	Thick film ceramic strain gage for ranges through -15 psig to 1450 psig Sputtered thin film strain gage for all higher pressure ranges		
Proof Pressure	2 times Full Scale for ranges Vacuum through 0 psig to 1450 psig. 1.75 times Full scale for ranges 0 psig to 1500 psig through 0 psig to 10000 psig		
Burst Pressure	2.5 times Full Scale for ranges Vacuum through 0 psig to 1450 psig. 4 times Full scale for ranges 0 psig to 1500 psig through 0 psig to 10000 psig.		
Wetted Materials	Stainless Steel with ceramic sensor and viton seal on ranges through 0 psig to 1450 psig (other sealing materials available upon request) Stainless Steel only for higher pressure ranges.		
Housing Material	800-Stainless Steel, 810-Black Anodized Aluminum		
Power Supply	12 - 30 Vdc unregulated		
Signal Output	4 to 20 mA or 0 to 10 Vdc; programmable and freely adjustable		
Switch Points	Individually adjustable via external control keys		
Number Function	1 or 2 (PNP or NPN) NO/NC; windows - and hysteresis function freely adjustable		
Switching rating	0.5 A max		
Response time	<10 ms		
Accuracy	<1% Full Scale		
Display	7-Segment-LED, red 4-digit, height 0.3		
Adjustment	Programmable on the display		
Switch Point Hysteresis	0.5 to 100% of Full Scale 0.5 to 99% of Full Scale		
Current Consumption	<50 mA (without load)		
Accuracy	<0.5% Full Scale (Best Fit Straight Line) ±1 Digit		
Hysteresis	<0.2% Full Scale (<0.3 with pressure range <0 psi - 230 psi)		
Repeatability	<0.2% Full Scale		
Stability	<0.2% Full Scale (<0.3 with pressure range <0 psi - 230 psi)		
Temperature Limits Media	-4°F to 176°F (-20°C to 85°C) (Thin Film Sensor)		
-	-4°F to 176°F (-20°C to 85°C) (Ceramic Sensor)		
Ambient Storage	-4°F to 158°F (-20°C to 70°C)		
Compensated Temp Range	-22°F to 176°F (-30°C to 80°C) 32°F to 176°F (0°C to 80°C)		
Thermal Zero Effect	± 0.07% Full Scale/°F		
Thermal Span Effect	± 0.07% Full Scale/°F		
CE compliance	89/336EWG interference emission and immunity see EN 61 326		
	97/23/EG Pressure equipment directive, Appendix 1		
Vibration	> 10 g according to IEC 60068-2-6		
Shock	> 50 g according to IEC 60068-2-27		
Electrical Protection	Protected against reverse polarity, overvoltage and short circuit		
Environmental Protection	NEMA 4 Per IEC 60529/EN 60529		
Durability	>10 million Full Scale Cycles		
Weight	Approx 0.62 lbs		

WIRING DIAGRAMS

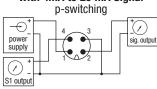
ORDERING INFORMATION					
SERIES 800/810					
SWITCH FUNCTION	1 2 N.O. or 2 N.C. (PNP or NPN)	2 1 N.O. or 1 N.C. (PNP or NF with 4 mA to 20 mA Analogous	,		
	3 1 N.O. or 1 N.C. (PNP or NPN) with 0 Vdc to 10 Vdc Analog Output	4 2 N.O. or 1 N.C. (PNP or NF with 4 mA to 20 mA Analog	,		
PROCESS CONNECTIONS	2 1/4 " NPT male 5 1/4 " NPT female 11 G1/2B male 19 G1/4B female	8 1/2 " NPT male 10 45 7/16-20 UNF SAE #4	O G 1/4 B male 4 (Non-Adjustable)		
SWITCH ADJUSTMENT	-14.5 psig to 30 psig 14.5/30 () psig to 145 psig 14	45 0 psig to 3750 psig 3750		
RANGE (MAXIMUM WORK	-14.5 psig to 75 psig 14.5/75 () psig to 300 psig 30	300 0 psig to 6000 psig 6000		
PRESSURE)	-14.5 psig to 145 psig 14.5/145 () psig to 750 psig 75	750 0 psig to 9000 psig 9000		
	0 psig to 30 psig 30 () psig to 1450 psig 145	150		
	0 psig to 75 psig 75 0	psig to 2400 psig 240	100		
ELECTRICAL CONNECTIONS	ELECTRICAL CONNECTIONS 2 M12 x 1 (4-Pin) 3 M12 x 1 (5-Pin), 2 switch and analog output				
OPTIONS	ORF Threaded Orifice RB Rotata	ble Base EH En	Enhanced Software ¹		

¹Includes Minimum/Maximum Value Memory, Output Dampening, Switching Time Delay

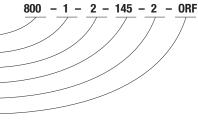
EXAMPLE



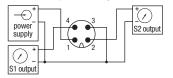
1 switching output (M12 x 1) with 4mA to 20 mA Signal



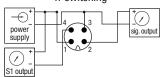
Switch Function . . . 2 N.O. or N.C. (pnp or npn) Process Connection1/4 " NPT male Switch Adjustment Range .0 psig to 145 psig Electrical ConnectionM12 x 1 (4-pin) Option Orifice



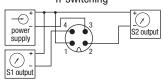
2 switching output (M12 x 1) p-switching



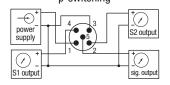
1 switching output (M12 x 1) with 4mA to 20 mA Signal n-switching



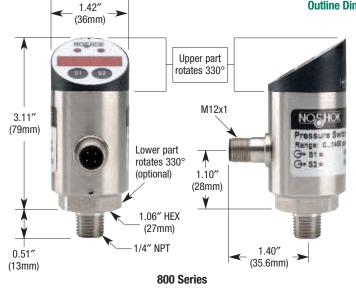
2 switching output (M12 x 1) n-switching



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



Outline Dimensions







810 Series Black anodized Aluminum Housing