

Pressure Switches

## Electronic Indicating Transmitter/Switch



## 800 SERIES

- Compound and standard ranges from 0 psig to 10 psig through 0 psig to 7,500 psig
- 316L Stainless steel wetted parts
- Current and voltage outputs available
- 7 different output configurations available
- Display and electrical connection can be rotated independently
- CE compliant to suppress RFI, EMI and ESD
- RoHS compliant

### APPLICATIONS

- Hydraulics & pneumatics
- Power generation
- Pumps & compressors
- Stamping & forming presses
- Water & wastewater

### SPECIFICATIONS

<b>Pressure ranges</b>	Compound and standard ranges from 0 psig to 10 psig through 0 psig to 7,500 psig
<b>Switching parameters</b>	Individually adjustable via external control keys
Number	1 or 2 (PNP or NPN)
Function	N.O., N.C., window, hysteresis (freely adjustable)
Contact rating	250 mA max.
Response time	≤5 ms
Accuracy	≤ 0.5 % of span
Switch point	.25 to 100% of full scale
Hysteresis	Fully adjustable
<b>Transmitter parameters</b>	
Output signal	4 mA to 20 mA or 0 Vdc to 10 Vdc; programmable and freely adjustable
Accuracy	±0.5% of span including non-linearity, hysteresis, zero offset and end value deviation (corresponds to measured error per IEC 61298-2)
Non-repeatability	< 0.1% of span (IEC 61298-2)
Adjustment	Freely scalable within the range of 5:1
<b>Service life</b>	100,000,000 load cycles
<b>Temperature ranges</b>	Compensated 32 °F to 176 °F (0 °C to 80 °C) Media -4 °F to 185 °F (-20 °C to 185 °C) Ambient -4 °F to 176 °F (-20 °C to 80 °C) Storage -4 °F to 158 °F (-20 °C to 70 °C)
<b>Display</b>	14 segment-LED, red 4-digit, height 0.35"
<b>Power requirement*</b>	15 - 35 Vdc
<b>Current consumption</b>	Max. 45 mA for versions without 4-20 mA output signal, Max. 70 mA for versions with 4-20 mA output signal, Total consumption max. 600 mA including switching current
<b>Proof pressure</b>	2 times full scale
<b>Measuring element</b>	<150 psi: 316L Stainless steel ≥150 psi: 316L, PH grade Stainless steel
<b>Housing material</b>	304 Stainless steel
<b>Connection</b>	316 stainless steel
<b>Environmental rating</b>	IP65 and IP67 per IEC 60529
<b>Electromagnetic rating</b>	CE compliant to EMC norm EN 61326:1997/A1:1998 RFI, EMI and ESD protection
<b>Electrical protection</b>	Protected against reverse polarity, over-voltage and short circuit
<b>Shock</b>	> 50 g's according to IEC 60068-2-27
<b>Vibration</b>	> 20 g's according to IEC 60068-2-6
<b>Weight</b>	Approx 0.49 lb.

\* Unregulated

## 800 SERIES ORDERING INFORMATION DIMENSIONS

ORDERING INFORMATION								
<b>SERIES</b>	<b>800</b>	304 Stainless steel housing						
<b>SWITCH FUNCTIONS</b>	<b>1</b>	2 N.O. or N.C. (PNP or NPN)		<b>5</b> 2 N.O. or N.C. switch (PNP/NPN) with 0 Vdc to 10 Vdc 3-wire output *				
	<b>2</b>	1 N.O. or N.C. (PNP or NPN) with 4 mA to 20 mA 3-wire analog output		<b>6</b> 1 N.O. or N.C. switch (PNP/NPN) with 4 mA to 20 mA/0 Vdc to 10 Vdc 3-wire output 2 **				
	<b>3</b>	1 N.O. or N.C. (PNP or NPN) with 0 Vdc to 10 Vdc 3-wire output		<b>7</b> 2 N.O. or N.C. switch (PNP/NPN) with 4 mA to 20 mA/0 Vdc to 10 Vdc 3-wire output * **				
	<b>4</b>	2 N.O. or N.C. (PNP or NPN) with 4 mA to 20 mA analog output *						
<b>PROCESS CONNECTIONS</b>	<b>2</b>	1/4" NPT male	<b>10</b>	G 1/4 B male				
	<b>8</b>	1/2" NPT male	<b>11</b>	G 1/2 B male				
<b>ADJUSTABLE RANGES (Max. working pressure)</b>	<b>14.5vac</b>	-14.5 psig to 0 psig	<b>15</b>	0 psig to 15 psig	<b>1000</b>	0 psig to 1,000 psig	<b>30A</b>	0 psia to 30 psia
	<b>14.5/15</b>	-14.5 psig to 15 psig	<b>25</b>	0 psig to 25 psig	<b>1500</b>	0 psig to 1,500 psig	<b>50A</b>	0 psia to 50 psia
	<b>14.5/30</b>	-14.5 psig to 30 psig	<b>30</b>	0 psig to 30 psig	<b>2000</b>	0 psig to 2,000 psig	<b>100A</b>	0 psia to 100 psia
	<b>14.5/50</b>	-14.5 psig to 50 psig	<b>50</b>	0 psig to 50 psig	<b>3000</b>	0 psig to 3,000 psig	<b>160A</b>	0 psia to 160 psia
	<b>14.5/100</b>	-14.5 psig to 100 psig	<b>100</b>	0 psig to 100 psig	<b>5000</b>	0 psig to 5,000 psig	<b>200A</b>	0 psia to 200 psia
	<b>14.5/160</b>	-14.5 psig to 160 psig	<b>160</b>	0 psig to 160 psig	<b>7500</b>	0 psig to 7,500 psig	<b>300A</b>	0 psia to 300 psia
	<b>14.5/200</b>	-14.5 psig to 200 psig	<b>200</b>	0 psig to 200 psig	<b>10A</b>	0 psia to 10 psia		
	<b>14.5/300</b>	-14.5 psig to 300 psig	<b>300</b>	0 psig to 300 psig	<b>15A</b>	0 psia to 15 psia		
	<b>10</b>	0 psig to 10 psig	<b>500</b>	0 psig to 500 psig	<b>25A</b>	0 psia to 25 psia		
	<b>ELECTRICAL CONNECTIONS</b>	<b>2</b>	M12 x 1 (4-pin)	<b>3</b>	M12 x 1 (5-pin), 2 switch and analog output			
	<b>OPTIONS</b>	<b>ST8</b>	Threaded Orifice					

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

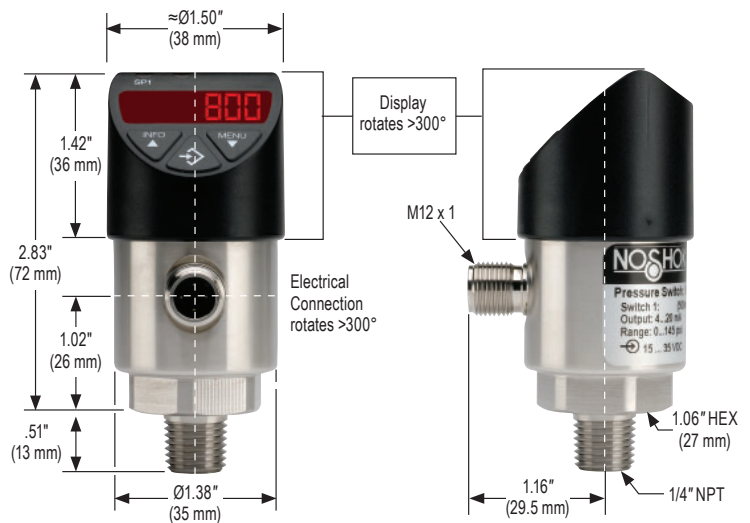
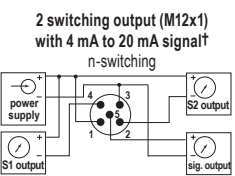
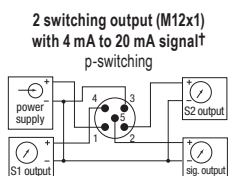
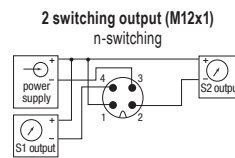
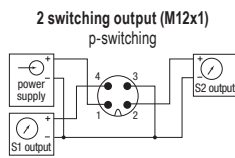
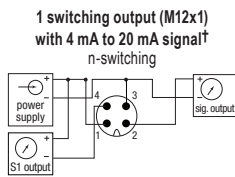
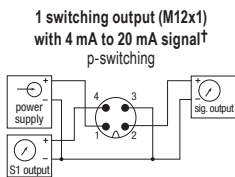
\* Available only with a M12 x 1 (5-pin) connector

\*\* Can switch between 4 mA to 20 mA / 0 Vdc to 10 Vdc

### EXAMPLE

Series ..... 800 Series  
 Switch function ..... 2 N.O. or N.C. (PNP or NPN)  
 Process connection ..... 1/4" NPT Male  
 Adjustable range ..... 0 psig to 160 psig  
 Electrical connection ..... M12 x 1 (4-pin)  
 Option ..... Threaded Orifice

800 - 1 - 2 - 160 - 2 - ST8



† Also applies to 0 Vdc to 10 Vdc output