



## APPLICATIONS

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

## 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

## 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)<br>Media -4 °F to 185 °F (-20 °C to 185 °C)<br>Ambient -4 °F to 176 °F (-20 °C to 80 °C)<br>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,<br>Max. 70 mA for versions with 4-20 mA output signal,<br>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<br>≥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<br>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

| ORDERING INFORMATION                         |                                 |                                                                     |     |                                             |      |                                                                                        |      |                    |
|----------------------------------------------|---------------------------------|---------------------------------------------------------------------|-----|---------------------------------------------|------|----------------------------------------------------------------------------------------|------|--------------------|
| SERIES                                       | 800 304 Stainless steel housing |                                                                     |     |                                             |      |                                                                                        |      |                    |
| SWITCH FUNCTIONS                             | 1                               | 2 N.O. or N.C. (PNP or NPN)                                         |     |                                             | 5    | 2 N.O. or N.C. switch (PNP/NPN) with 0 Vdc to 10 Vdc 3-wire output *                   |      |                    |
|                                              | 2                               | 1 N.O. or N.C. (PNP or NPN) with 4 mA to 20 mA 3-wire analog output |     |                                             | 6    | 1 N.O. or N.C. switch (PNP/NPN) with 4 mA to 20 mA/0 Vdc to 10 Vdc 3-wire output 2 **  |      |                    |
|                                              | 3                               | 1 N.O. or N.C. (PNP or NPN) with 0 Vdc to 10 Vdc 3-wire output      |     |                                             | 7    | 2 N.O. or N.C. switch (PNP/NPN) with 4 mA to 20 mA/0 Vdc to 10 Vdc 3-wire output *, ** |      |                    |
|                                              | 4                               | 2 N.O. or N.C. (PNP or NPN) with 4 mA to 20 mA analog output *      |     |                                             |      |                                                                                        |      |                    |
| PROCESS CONNECTIONS                          | 2                               | 1/4" NPT male                                                       | 10  | G 1/4 B male                                | 45   | SAE J514 FIG 34B (Non-Adjustable)                                                      |      |                    |
|                                              | 8                               | 1/2" NPT male                                                       | 11  | G 1/2 B male                                |      |                                                                                        |      |                    |
| ADJUSTABLE RANGES<br>(Max. working pressure) | 14.5vac                         | -14.5 psig to 0 psig                                                | 15  | 0 psig to 15 psig                           | 1000 | 0 psig to 1,000 psig                                                                   | 30A  | 0 psia to 30 psia  |
|                                              | 14.5/15                         | -14.5 psig to 15 psig                                               | 25  | 0 psig to 25 psig                           | 1500 | 0 psig to 1,500 psig                                                                   | 50A  | 0 psia to 50 psia  |
|                                              | 14.5/30                         | -14.5 psig to 30 psig                                               | 30  | 0 psig to 30 psig                           | 2000 | 0 psig to 2,000 psig                                                                   | 100A | 0 psia to 100 psia |
|                                              | 14.5/50                         | -14.5 psig to 50 psig                                               | 50  | 0 psig to 50 psig                           | 3000 | 0 psig to 3,000 psig                                                                   | 160A | 0 psia to 160 psia |
|                                              | 14.5/100                        | -14.5 psig to 100 psig                                              | 100 | 0 psig to 100 psig                          | 5000 | 0 psig to 5,000 psig                                                                   | 200A | 0 psia to 200 psia |
|                                              | 14.5/160                        | -14.5 psig to 160 psig                                              | 160 | 0 psig to 160 psig                          | 7500 | 0 psig to 7,500 psig                                                                   | 300A | 0 psia to 300 psia |
|                                              | 14.5/200                        | -14.5 psig to 200 psig                                              | 200 | 0 psig to 200 psig                          | 10A  | 0 psia to 10 psia                                                                      |      |                    |
|                                              | 14.5/300                        | -14.5 psig to 300 psig                                              | 300 | 0 psig to 300 psig                          | 15A  | 0 psia to 15 psia                                                                      |      |                    |
|                                              | 10                              | 0 psig to 10 psig                                                   | 500 | 0 psig to 500 psig                          | 25A  | 0 psia to 25 psia                                                                      |      |                    |
|                                              |                                 |                                                                     |     |                                             |      |                                                                                        |      |                    |
| ELECTRICAL CONNECTIONS                       | 2                               | M12 x 1 (4-pin)                                                     | 3   | M12 x 1 (5-pin), 2 switch and analog output |      |                                                                                        |      |                    |
| OPTIONS                                      | ST8 Threaded Orifice            |                                                                     |     |                                             |      |                                                                                        |      |                    |

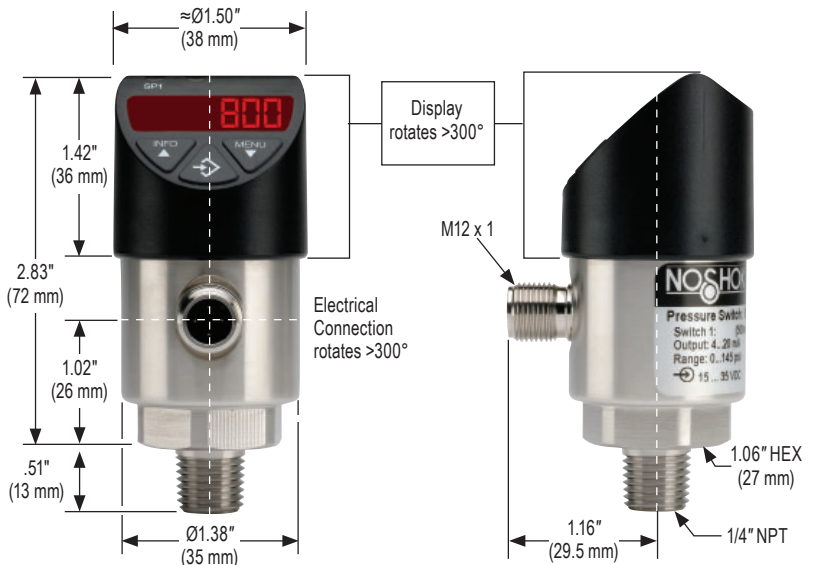
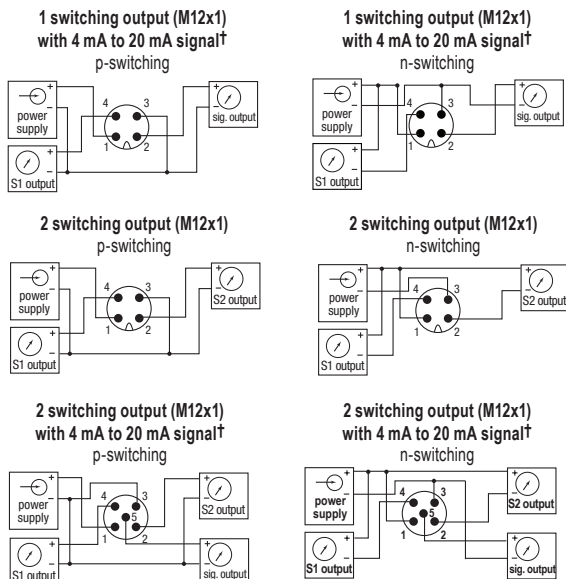
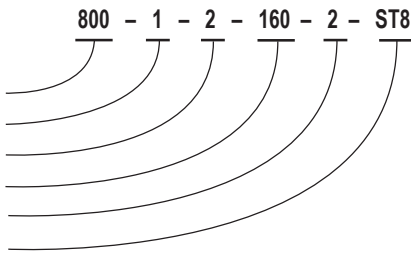
Please consult your local NOSHOK Distributor or NOSHOK, Inc. for availability and delivery information.

\* 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



† Also applies to 0 Vdc to 10 Vdc output