



## 625/626 SERIES

- Low pressure ranges for vapor recovery applications, vacuum and compound ranges through 0 psig to 15,000 psig; absolute ranges from 0 psia to 15 psia through 0 psia to 300 psia
- Current output
- 316 and 13-8PH Stainless Steel wetted parts
- Factory Mutual and Canadian Standards Association approved
- ANSI/ISA-12.27.01 approved single seal

### APPLICATIONS

- Chemical processing
- Gas pressure measurement
- Oil field & offshore
- Mining
- Vapor recovery systems
- Well head measurement

NOSHOK 625 and 626 Series transmitters are Factory Mutual and Canadian Standards Association approved for use in hazardous location applications as follows:

Intrinsically Safe, entity approval for Class I, II and III, Division 1, Groups A, B, C, D, E, F and G; and Class I, Zone 0 Aex ia IIC Dust Ignition-proof for Class II and III, Division 2, Groups F and G Non-incendive for Class I, Division 2, Groups A, B, C and D. ANSI/ISA-12.27.01, Approved single seal.

### SPECIFICATIONS

|                        |                                                                                                                                                                                                                                                                      |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Output signal          | 4 mA to 20 mA, 2-wire                                                                                                                                                                                                                                                |
| Pressure ranges        | Vacuum through 0 psig to 15,000 psig<br>Absolute from 0 psia to 15 psia through 0 psia to 300 psia                                                                                                                                                                   |
| Accuracy               | ±0.25% full scale (BFSL); optional ±0.125% full scale (BFSL) (Includes the effects of non-linearity, hysteresis, non-repeatability, zero point and full scale errors)                                                                                                |
| Stability              | ≤ ±0.2% full scale for 1 year, non-accumulating                                                                                                                                                                                                                      |
| Adjustment             | ± 10% full scale for zero and span                                                                                                                                                                                                                                   |
| Response time          | ≤ 1 ms (between 10% and 90% full scale)                                                                                                                                                                                                                              |
| Service life           | > 100,000,000 load cycles                                                                                                                                                                                                                                            |
| Temperature ranges     | Compensated 32 °F to 176 °F (0 °C to 80 °C)<br>Zero effect is ±0.011% full scale/ °F<br>Span effect is ±0.011% full scale/ °F<br>Media -4 °F to 185 °F (-20 °C to 85 °C)<br>Ambient -4 °F to 176 °F (-20 °C to 80 °C)<br>Storage -22 °F to 221 °F (-30 °C to 105 °C) |
| Power requirement*     | 10 Vdc to 30 Vdc (4 mA to 20 mA, 2-wire)                                                                                                                                                                                                                             |
| Load limitations       | ≤ (VPower-10)/0.020 Amp                                                                                                                                                                                                                                              |
| Proof pressure         | 3.5 times full scale for ranges 0 psi to 5 psi through 0 psi to 200 psi<br>2 times full scale for ranges 0 psi to 300 psi through 0 psi to 10,000 psi<br>1.5 times full scale for 0 psi to 15,000 psi                                                                |
| Burst pressure         | 4 times full scale for ranges 0 psi to 5 psi through 0 psi to 200 psi<br>4 times full scale for ranges 0 psi to 300 psi through 0 psi to 10,000 psi<br>3 times full scale for 0 psi to 15,000 psi                                                                    |
| Measuring element      | 625 Series is 316 Stainless Steel for ranges up through 0 psi to 300 psi, 316 Stainless Steel with 13-8PH Stainless Steel for ≥300 psi;<br>626 Series is 316 Stainless Steel with NBR o-ring                                                                         |
| Connection             | 316 Stainless Steel                                                                                                                                                                                                                                                  |
| Housing material       | 316 Stainless Steel                                                                                                                                                                                                                                                  |
| Environmental rating   | IP65 to IP67 depending upon electrical connection                                                                                                                                                                                                                    |
| Electromagnetic rating | Built to suppress RFI, EMI and ESD protection                                                                                                                                                                                                                        |
| Electrical protection  | Reverse polarity, over-voltage and short circuit protected                                                                                                                                                                                                           |
| Shock                  | 1,000 g's according to IEC 60068-2-27                                                                                                                                                                                                                                |
| Vibration              | 20 g's according to IEC 60068-2-6                                                                                                                                                                                                                                    |
| Weight                 | Approximately 7 oz.                                                                                                                                                                                                                                                  |

\* Unregulated



**WARNING:** This product can expose you to chemicals including Lead 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](http://www.P65Warnings.ca.gov)

## ORDERING INFORMATION

| ORDERING INFORMATION                                                                                                                                                   |                         |                                                |        |                      |      |                                                              |       |                       |      |                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------------------------|--------|----------------------|------|--------------------------------------------------------------|-------|-----------------------|------|---------------------------|
| SERIES                                                                                                                                                                 | 625                     | Stainless Steel threaded connection            |        |                      | 626  | 316 Stainless Steel flush diaphragm                          |       |                       | 626H | Hastelloy flush diaphragm |
| PRESSURE RANGES                                                                                                                                                        | 4/12 oz/in <sup>2</sup> | -4 oz/in <sup>2</sup> to 12 oz/in <sup>2</sup> | 30/100 | -30 inHg to 100 psig | 150  | 0 psig to 150 psig                                           | 5000  | 0 psig to 5,000 psig  | 100A | 0 psia to 100 psia        |
|                                                                                                                                                                        | 12 oz/in <sup>2</sup>   | 0 oz/in <sup>2</sup> to 12 oz/in <sup>2</sup>  | 30/150 | -30 inHg to 150 psig | 200  | 0 psig to 200 psig                                           | 6000  | 0 psig to 6,000 psig  | 150A | 0 psia to 150 psia        |
|                                                                                                                                                                        | 16 oz/in <sup>2</sup>   | 0 oz/in <sup>2</sup> to 16 oz/in <sup>2</sup>  | 30/200 | -30 inHg to 200 psig | 300  | 0 psig to 300 psig                                           | 7500  | 0 psig to 7,500 psig  | 200A | 0 psia to 200 psia        |
|                                                                                                                                                                        | 50 inH <sub>2</sub> O   | 0 inH <sub>2</sub> O to 50 inH <sub>2</sub> O  | 3      | 0 psig to 3 psig     | 500  | 0 psig to 500 psig                                           | 8000  | 0 psig to 8,000 psig  | 250A | 0 psia to 250 psia        |
|                                                                                                                                                                        | 100 inH <sub>2</sub> O  | 0 inH <sub>2</sub> O to 100 inH <sub>2</sub> O | 5      | 0 psig to 5 psig     | 750  | 0 psig to 750 psig                                           | 10000 | 0 psig to 10,000 psig |      |                           |
|                                                                                                                                                                        | 30vac                   | -30 inHg to 0 psig                             | 15     | 0 psig to 15 psig    | 1000 | 0 psig to 1,000 psig                                         | 15000 | 0 psig to 15,000 psig |      |                           |
|                                                                                                                                                                        | 30/15                   | -30 inHg to 15 psig                            | 30     | 0 psig to 30 psig    | 1500 | 0 psig to 1,500 psig                                         | 15A   | 0 psia to 15 psia     |      |                           |
|                                                                                                                                                                        | 30/30                   | -30 inHg to 30 psig                            | 60     | 0 psig to 60 psig    | 2000 | 0 psig to 2,000 psig                                         | 30A   | 0 psia to 30 psia     |      |                           |
|                                                                                                                                                                        | 30/60                   | -30 inHg to 60 psig                            | 100    | 0 psig to 100 psig   | 3000 | 0 psig to 3,000 psig                                         | 60A   | 0 psia to 60 psia     |      |                           |
| psig = gauge pressure    psia = absolute pressure    Other ranges available on request    Note: 626 Series is available for pressure ranges up to 0 psig to 8,000 psig |                         |                                                |        |                      |      |                                                              |       |                       |      |                           |
| ACCURACY                                                                                                                                                               | 1                       | ±0.25% full scale (BFSL)                       |        |                      | 2    | ±0.125% full scale (BFSL)                                    |       |                       |      |                           |
| OUTPUT SIGNAL                                                                                                                                                          | 1                       | 4 mA to 20 mA, 2-wire                          |        |                      |      |                                                              |       |                       |      |                           |
| PROCESS CONNECTIONS                                                                                                                                                    | 2                       | 1/4" NPT male                                  |        |                      | 13   | G 1 B (626 Series only, <30 psig)                            |       |                       |      |                           |
|                                                                                                                                                                        | 8                       | 1/2" NPT male                                  |        |                      | 45   | 7/16-20 SAE J514 FIG 34B (Non-Adjustable)                    |       |                       |      |                           |
|                                                                                                                                                                        | 11                      | G 1/2 B *                                      |        |                      |      |                                                              |       |                       |      |                           |
| ELECTRICAL CONNECTIONS                                                                                                                                                 | 1                       | DIN EN 175301-803 Form A w/ 36" Cable          |        |                      | 14   | DIN EN 175301-803 Form A with 1/2" NPT female conduit – IP65 |       |                       |      |                           |
|                                                                                                                                                                        | 3                       | 6-pin Bayonet - IP65                           |        |                      | 25   | M12x1 (4-pin) IP67                                           |       |                       |      |                           |
|                                                                                                                                                                        | 8                       | DIN EN 175301-803 Form A                       |        |                      | 36   | Integral cable 36" - IP67                                    |       |                       |      |                           |
| OPTION                                                                                                                                                                 | ST8                     | Threaded Orifice (625 Series only)             |        |                      |      |                                                              |       |                       |      |                           |

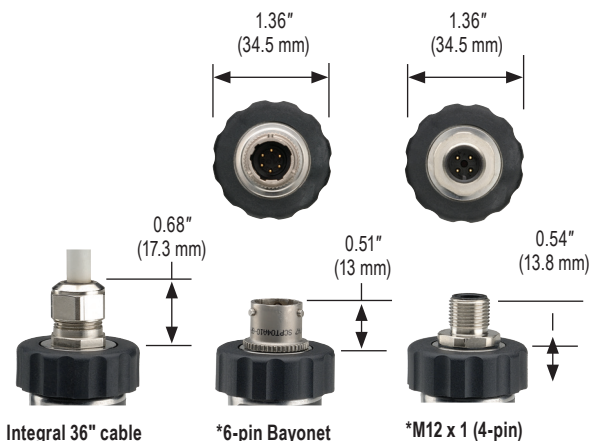
Please consult your local NOSHOK Distributor or NOSHOK, Inc. for availability and delivery information.

\* 626 Series only, G 1/2 B Flush (≥ 30 psig).

## EXAMPLE

Series ..... 625 Series  
 Pressure range ..... 0 psig to 500 psig  
 Accuracy ..... ±0.25% full scale (BFSL)  
 Output signal ..... 4 mA to 20 mA, 2-wire  
 Process connection ..... 1/2" NPT Male  
 Electrical connection ..... DIN EN 175301-803 Form A  
 Option ..... Threaded Orifice

625 - 500 - 1 - 1 - 8 - 8 - ST8



\*Note: mate supplied separately

## 2-WIRE WIRING

|    | DIN EN 175301-803 Form A | Cable       | M12 | Bayonet |
|----|--------------------------|-------------|-----|---------|
| V+ | 1                        | Red/Brown   | 1   | A       |
| V- | 2                        | Black/Green | 3   | B       |

## NOTE

See 621/622 Series for G1/2B and G1B Front Flush Process Connection Dimensions pg. 85

