

# High Accuracy Fixed Range



## PT40 SERIES

- Gauge, compound, absolute and vacuum ranges from 2 psig to 15,000 psig
- Premium accuracy
- Current and voltage outputs available
- 316 and 17-4PH Stainless Steel wetted parts
- Field adjustable offset and span
- CE compliant to suppress RFI, EMI and ESD
- RoHS compliant

### APPLICATIONS

- Hydraulics & pneumatics
- Laboratory & test equipment
- Power generation
- Automation
- Mobile equipment
- General industrial

### SPECIFICATIONS

|                               |                                                                                                                        |                                                                            |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| <b>Output signals</b>         | 4 mA to 20 mA, 2-wire; 0 Vdc to 5 Vdc, 0 Vdc to 10 Vdc, 1 Vdc to 5 Vdc, 3-wire                                         |                                                                            |
| <b>Pressure ranges</b>        | Gauge, compound, absolute and vacuum ranges from 2 psi to 15,000 psi                                                   |                                                                            |
| <b>Accuracy*</b>              | ±0.25% of span, optional ±0.125% of span, non-linearity best fit straight line per IEC 61298-2 at reference conditions |                                                                            |
| <b>Adjustment</b>             | ± 10% full scale for zero and span                                                                                     |                                                                            |
| <b>Response time</b>          | Less than 1 ms (between 10% and 90% full scale)                                                                        |                                                                            |
| <b>Service life</b>           | > 100 million load cycles                                                                                              |                                                                            |
| <b>Temperature ranges*</b>    | Compensated:                                                                                                           | 32 °F to 176 °F (0 °C to 80 °C)                                            |
|                               | Media:                                                                                                                 | -22 °F to 212 °F (-30 °C to 100 °C)                                        |
|                               | Ambient:                                                                                                               | -4 °F to 176 °F (-20 °C to 80 °C)                                          |
|                               | Storage:                                                                                                               | -40 °F to 212 °F (-40 °C to 100 °C)                                        |
| <b>Power requirement*</b>     | 10 Vdc to 30 Vdc:                                                                                                      | 4 mA to 20 mA, 2-wire<br>1 Vdc to 5 Vdc, 3-wire,<br>0 Vdc to 5 Vdc, 3-wire |
|                               | 14 Vdc to 30 Vdc:                                                                                                      | 0 Vdc to 10 Vdc, 3-wire                                                    |
| <b>Proof pressure</b>         | < 300 psi:                                                                                                             | 3 times full scale                                                         |
|                               | 300 – 10,000 psi:                                                                                                      | 2 times full scale                                                         |
|                               | > 10,000 psi:                                                                                                          | 1.5 times full scale                                                       |
| <b>Burst pressure</b>         | < 300 psi:                                                                                                             | 5 times full scale                                                         |
|                               | 300 – 10,000 psi:                                                                                                      | 4 times full scale                                                         |
|                               | > 10,000 psi:                                                                                                          | 3 times full scale                                                         |
| <b>Measuring element</b>      | 316 Stainless Steel:                                                                                                   | Vacuum through 300 psi                                                     |
|                               | 17-4PH Stainless Steel:                                                                                                | ≥ 500 psi                                                                  |
| <b>Process connection</b>     | 316 Stainless Steel                                                                                                    |                                                                            |
| <b>Housing material</b>       | 316 Stainless Steel                                                                                                    |                                                                            |
| <b>Environmental rating</b>   | IP65: DIN EN 175301-803 Form C                                                                                         |                                                                            |
|                               | IP67: 4-pin Bayonet, 6-pin Bayonet, 1/2" NPT conduit, M12 x 1 (4-pin), Integral cable                                  |                                                                            |
| <b>Electromagnetic rating</b> | CE compliant to EMC norm EN 61326:2014/A1:1998<br>RFI, EMI and ESD protection                                          |                                                                            |
| <b>Electrical protection</b>  | Reverse polarity, overvoltage and short circuit protection                                                             |                                                                            |
| <b>Shock</b>                  | 1,000 g's according to IEC 60068-2-27                                                                                  |                                                                            |
| <b>Vibration</b>              | 20 g's according to IEC 60068-2-6                                                                                      |                                                                            |
| <b>Weight</b>                 | Approximately 7.5 oz.                                                                                                  |                                                                            |

\* See user manual for detailed specifications



| ORDERING INFORMATION                                                                                                                                     |         |                                                                               |         |                    |          |                                                                                |           |                       |         |                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------|---------|--------------------|----------|--------------------------------------------------------------------------------|-----------|-----------------------|---------|--------------------------------------------------|
| SERIES                                                                                                                                                   | PT40    |                                                                               |         |                    |          |                                                                                |           |                       |         |                                                  |
| PRESSURE RANGES                                                                                                                                          | 15psiv  | -15 psig to 0 psig                                                            | 3psig   | 0 psig to 3 psig   | 200psig  | 0 psig to 200 psig                                                             | 3000psig  | 0 psig to 3,000 psig  | 30psia  | 0 psia to 30 psia                                |
|                                                                                                                                                          | 15psic  | -15 psig to 15 psig                                                           | 5psig   | 0 psig to 5 psig   | 300psig  | 0 psig to 300 psig                                                             | 4000psig  | 0 psig to 4,000 psig  | 60psia  | 0 psia to 60 psia                                |
|                                                                                                                                                          | 30psic  | -15 psig to 30 psig                                                           | 10psig  | 0 psig to 10 psig  | 500psig  | 0 psig to 500 psig                                                             | 5000psig  | 0 psig to 5,000 psig  | 100psia | 0 psia to 100 psia                               |
|                                                                                                                                                          | 60psic  | -15 psig to 60 psig                                                           | 15psig  | 0 psig to 15 psig  | 600psig  | 0 psig to 600 psig                                                             | 6000psig  | 0 psig to 6,000 psig  | 150psia | 0 psia to 150 psia                               |
|                                                                                                                                                          | 100psic | -15 psig to 100 psig                                                          | 30psig  | 0 psig to 30 psig  | 750psig  | 0 psig to 750 psig                                                             | 7500psig  | 0 psig to 7,500 psig  | 200psia | 0 psia to 200 psia                               |
|                                                                                                                                                          | 200psic | -15 psig to 200 psig                                                          | 60psig  | 0 psig to 60 psig  | 1000psig | 0 psig to 1,000 psig                                                           | 10000psig | 0 psig to 10,000 psig | 300psia | 0 psia to 300 psia                               |
|                                                                                                                                                          | 300psic | -15 psig to 300 psig                                                          | 100psig | 0 psig to 100 psig | 1500psig | 0 psig to 1,500 psig                                                           | 15000psig | 0 psig to 15,000 psig |         |                                                  |
|                                                                                                                                                          | 2psig   | 0 psig to 2 psig                                                              | 150psig | 0 psig to 150 psig | 2000psig | 0 psig to 2,000 psig                                                           | 15psia    | 0 psia to 15 psia     |         |                                                  |
| psiv = vacuum gauge pressure    psic = compound gauge pressure    psig = gauge pressure    psia = absolute pressure    Other ranges available on request |         |                                                                               |         |                    |          |                                                                                |           |                       |         |                                                  |
| Note: Front flush connection is available for pressure ranges up to 0 psig to 8,000 psig                                                                 |         |                                                                               |         |                    |          |                                                                                |           |                       |         |                                                  |
| ACCURACIES                                                                                                                                               | 1       | ±0.25% (of span, non-linearity, BFSL per IEC 61298-2 at reference conditions) |         |                    | 2        | ±0.125% (of span, non-linearity, BFSL per IEC 61298-2 at reference conditions) |           |                       |         |                                                  |
| OUTPUT SIGNALS                                                                                                                                           | 1       | 4 mA to 20 mA, 2-wire                                                         |         |                    | 3        | 1 Vdc to 5 Vdc, 3-wire                                                         |           |                       |         |                                                  |
|                                                                                                                                                          | 2       | 0 Vdc to 5 Vdc, 3-wire                                                        |         |                    | 5        | 0 Vdc to 10 Vdc, 3-wire                                                        |           |                       |         |                                                  |
| PROCESS CONNECTIONS                                                                                                                                      | 1       | 1/8" NPT male                                                                 |         |                    | 9        | SAE J1926-1:7/16-20 female                                                     |           |                       | 13      | G 1 B Front flush (For ranges with span <30 psi) |
|                                                                                                                                                          | 2       | 1/4" NPT male                                                                 |         |                    | 10       | G1/4B EN837                                                                    |           |                       | 45      | 7/16-20 SAE J514 FIG 34B (Non-Adjustable)        |
|                                                                                                                                                          | 8       | 1/2" NPT male                                                                 |         |                    | 11       | G 1/2B Front flush (For ranges with span ≥ 30 psi)                             |           |                       | 83      | G 1/2 B EN837                                    |
| Other connections available upon request                                                                                                                 |         |                                                                               |         |                    |          |                                                                                |           |                       |         |                                                  |
| ELECTRICAL CONNECTIONS                                                                                                                                   | 2       | 4-pin Bayonet                                                                 |         |                    | 16       | 1/2" NPT conduit w/ 3 ft. cable                                                |           |                       | 36      | 3 ft. Integral cable                             |
|                                                                                                                                                          | 3       | 6-pin Bayonet                                                                 |         |                    | 17       | DIN EN 175301-803 Form C w/ 3 ft. cable                                        |           |                       | 70      | DIN EN 175301-803 Form C w/o mating connector    |
|                                                                                                                                                          | 7       | DIN EN 175301-803 Form C                                                      |         |                    | 25       | M12 x 1 (4-pin)                                                                |           |                       |         |                                                  |
| OPTION                                                                                                                                                   | ST8     | SS Threaded Orifice (0.8 mm)                                                  |         |                    |          |                                                                                |           |                       |         |                                                  |

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

#### EXAMPLE

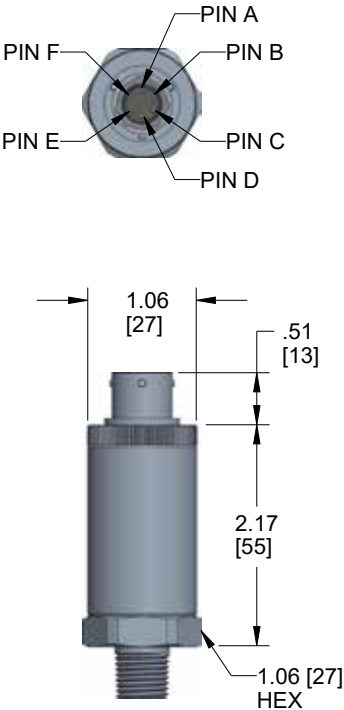
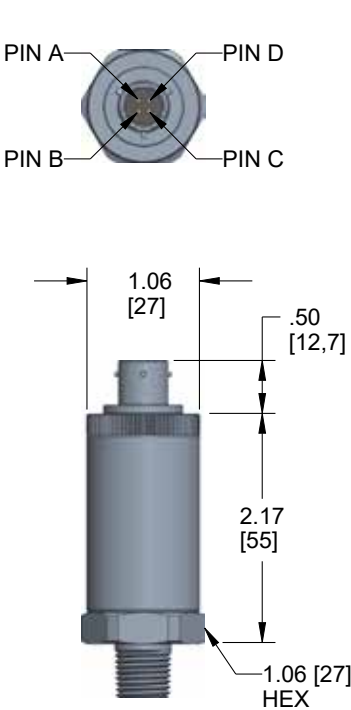
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|-----------------------------|--------------------------|---|-----------|---|---|---|---|---|---|---|---|---|-----|
|                             | PT40                     | - | 15000psig | - | 1 | - | 1 | - | 8 | - | 7 | - | ST8 |
| Series .....                | PT40 Series              |   |           |   |   |   |   |   |   |   |   |   |     |
| Pressure range .....        | 0 psig to 15,000 psig    |   |           |   |   |   |   |   |   |   |   |   |     |
| Accuracy .....              | ±0.25% of span (BFSI)    |   |           |   |   |   |   |   |   |   |   |   |     |
| Output signal .....         | 4 mA to 20 mA, 2-wire    |   |           |   |   |   |   |   |   |   |   |   |     |
| Process connection .....    | 1/2 NPT male             |   |           |   |   |   |   |   |   |   |   |   |     |
| Electrical connection ..... | DIN EN 175301-803 Form C |   |           |   |   |   |   |   |   |   |   |   |     |
| Option .....                | SS Threaded orifice      |   |           |   |   |   |   |   |   |   |   |   |     |

| UNINSTALLED OPTIONS   |                                      |
|-----------------------|--------------------------------------|
| G1A-WELD-ON-ADAPTER   | Weld on adapter for front flush only |
| G1/2A-WELD-ON-ADAPTER | Weld on adapter for front flush only |

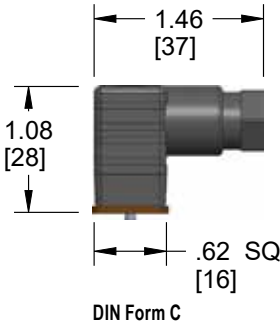
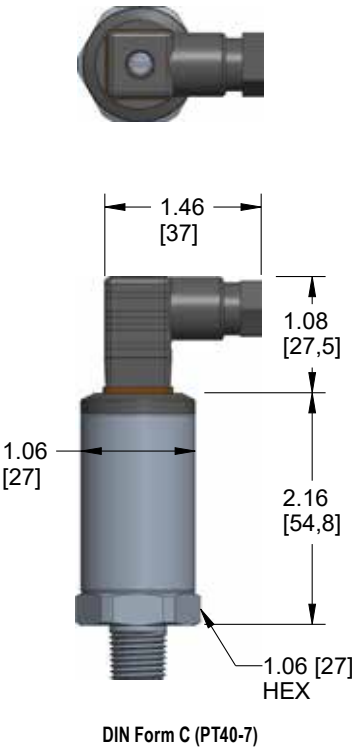
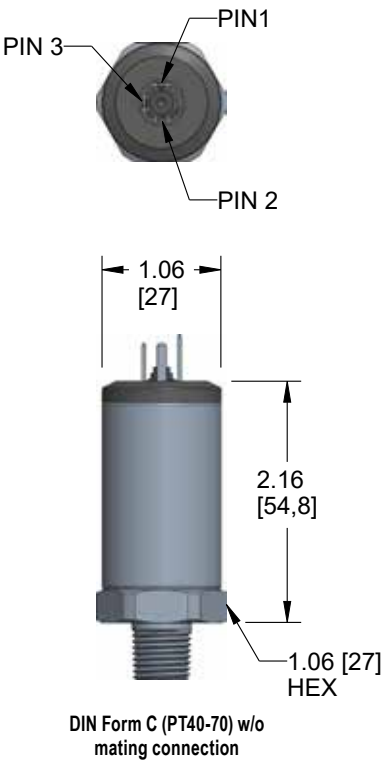
Dimensions

PT40-2 (4-Pin Bayonet)

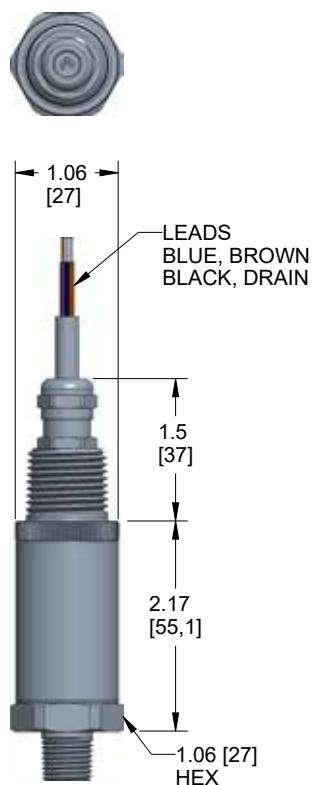
PT40-3 (6-Pin Bayonet)



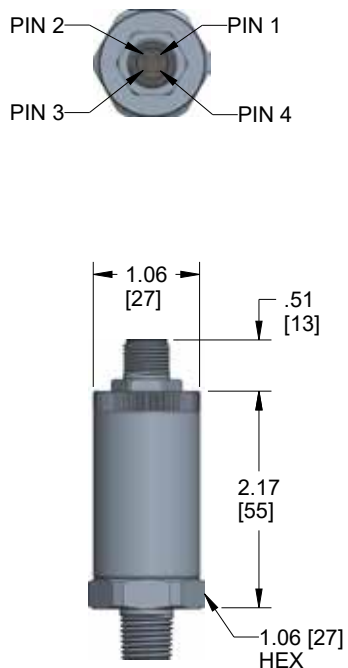
PT40 (DIN EN 175301-803 Form C)



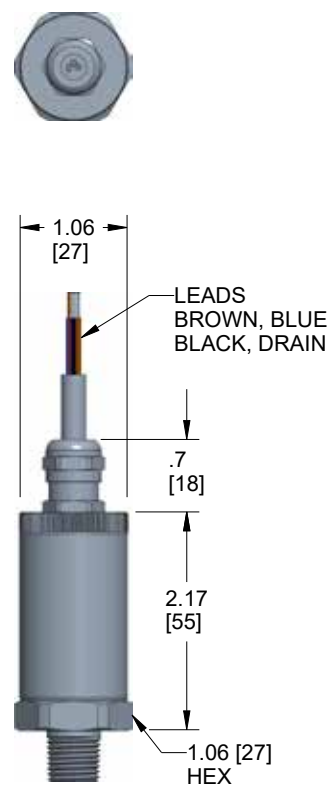
PT40-16 (1/2" NPT conduit w/ 3 ft. cable)



PT40-25 (M12 x 1 4-pin)



PT40-36 (3 ft. Integral Cable)



## PT40 Process Connections

