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[SA500PS1C1D](#)

**EN**

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**FR**

Cette fiche technique est  
présentée par le fabricant

# Pressure Sensors

Honeywell has over 40 years of experience in the pressure transducer industry. We offer three pressure sensor measurement types - absolute, differential and gage - including vacuum gage and bidirectional types. A wide variety of pressure ranges, along with both amplified and unamplified versions, are available. Silicon-based versions in stainless steel and brass housings allow for use in harsh environmental conditions. A wide choice of mounting, package, and port configurations allows customers to choose from standard off-the-shelf designs.

Pressure sensors contain sensing elements that consist of four piezoresistors buried in the face of a thin, chemically-etched silicon diaphragm. A pressure change causes the diaphragm to flex, inducing a stress or strain in the diaphragm and the buried resistors. The resistor values change in proportion to the stress applied and produce an electrical output.

All Honeywell pressure sensors feature excellent repeatability, high accuracy and reliability under varying environmental conditions. In addition, they feature highly consistent operating characteristics from one sensor to the next and interchangeability without recalibration.

## *Stainless Steel versions*

Honeywell also offers stainless steel pressure transducers that use bonded strain gauge technology with stainless steel media isolation, which eliminates the need for internal seals. Our stainless steel pressure transducers utilize bonded semiconductor strain gauge technology and are designed for demanding environments involving corrosive media. They are manufactured in a variety of packages that are widely used in medical equipment, compressors, hydraulic controls, transportation, agriculture, and refrigeration applications. Laser trimmed and tested, they are fully calibrated and temperature compensated to assure long-term reliability and performance. Stainless steel pressure transducers are fully compensated to eliminate known sources of errors.

Most of our transducers utilize the 'bonded strain gage' technology and are fully stainless steel media isolated, eliminating the need for internal elastomer seals. Our strain gage design is very resistant to the effects of shock, vibration and hostile environments. All of our transducers are fully compensated and tested against the appropriate specifications before shipment.



### **⚠ WARNING** **PERSONAL INJURY**

DO NOT USE these products as safety or emergency stop devices, or in any other application where failure of the product could result in personal injury.

**Failure to comply with these instructions could result in death or serious injury.**

## Selection guide

### Features

| Pressure Sensor Series | Output    |           |         |           | Pressure Connection |     |           |            |             |        | Termination |      |         |            |     |       | Agency Approvals |    |                   | Page Number |
|------------------------|-----------|-----------|---------|-----------|---------------------|-----|-----------|------------|-------------|--------|-------------|------|---------|------------|-----|-------|------------------|----|-------------------|-------------|
|                        | Millivolt | Amplified | Current | Frequency | Flush               | NPT | G Threads | PT Threads | UNF Threads | Others | Cable       | Pins | Packard | Hirschmann | DIN | Other | UL               | CE | FM Intrinsic Safe |             |
| AB/HP                  | •         |           |         |           | •                   |     |           |            |             |        | •           |      |         |            |     |       |                  | •  |                   | 137         |
| BL                     |           | •         | •       |           | •                   |     |           |            |             |        |             |      |         |            |     | •     |                  |    | •                 | 137         |
| BX                     | •         |           |         |           |                     | •   |           |            |             |        |             |      |         |            |     |       |                  | •  |                   | 138         |
| Datamate               |           | •         | •       |           |                     | •   |           |            |             | •      | •           |      |         |            |     |       |                  |    |                   | 138         |
| EA                     |           | •         |         | •         |                     | •   |           |            | •           |        |             |      |         |            |     | •     | •                |    |                   | 139         |
| Eclipse                |           | •         |         |           |                     | •   | •         | •          | •           | •      | •           |      | •       |            |     |       |                  |    |                   | 139         |
| MediaMate              | •         |           |         |           |                     | •   | •         | •          | •           | •      |             | •    |         | •          | •   |       |                  |    |                   | 141         |
| SA                     |           | •         |         |           |                     | •   | •         | •          | •           | •      | •           |      |         | •          |     |       | •                | •  | •                 | 142         |
| SR                     | •         |           |         |           | •                   |     |           |            |             | •      |             | •    |         |            |     |       |                  |    |                   | 142         |
| ML                     |           | •         | •       |           |                     | •   | •         |            |             |        |             |      | •       |            |     |       |                  | •  |                   | 143         |
| ST                     |           | •         |         |           |                     | •   |           | •          |             |        |             |      | •       |            |     |       |                  | •  | •                 | 143         |
| 19mm                   | •         |           |         |           | •                   | •   | •         | •          | •           | •      |             | •    |         |            |     | •     |                  | •  |                   | 144         |
| 13mm                   | •         |           |         |           | •                   | •   | •         | •          | •           | •      |             | •    |         |            |     | •     |                  | •  |                   | 145         |
| SPT                    | •         | •         | •       |           | •                   | •   | •         | •          | •           | •      | •           |      |         |            |     |       |                  | •  |                   | 146         |

### Applications

| Applications           |               | HVAC/R                |   |          |        | Medical         |                 |                 | Aerospace       |          | Transportation |             |               |               |                   |            |                |                 | Industrial OEMs |           | Process        |                 |              |               |             |
|------------------------|---------------|-----------------------|---|----------|--------|-----------------|-----------------|-----------------|-----------------|----------|----------------|-------------|---------------|---------------|-------------------|------------|----------------|-----------------|-----------------|-----------|----------------|-----------------|--------------|---------------|-------------|
| Pressure Sensor Series | Refrigeration | Air & Gas Compressors |   | Chillers | Valves | Kidney Dialysis | Instrumentation | Blood Diffusion | Cockpit & Cabin | Military | Train Braking  | Diagnostics | Test Vehicles | Transmissions | Off-Road Vehicles | Hydraulics | Diesel Engines | Heavy Equipment | Farm Equipment  | Injection | Printing Press | Food & Beverage | Pulp & Paper | Petrochemical | Page Number |
|                        |               |                       |   |          |        |                 |                 |                 |                 |          |                |             |               |               |                   |            |                |                 |                 |           |                |                 |              |               |             |
|                        |               |                       |   |          |        |                 |                 |                 |                 |          |                |             |               |               |                   |            |                |                 |                 |           |                |                 |              |               |             |
|                        |               |                       |   |          |        |                 |                 |                 |                 |          |                |             |               |               |                   |            |                |                 |                 |           |                |                 |              |               |             |
| AB/HP                  |               |                       |   |          | •      | •               | •               | •               | •               | •        | •              | •           |               |               |                   |            |                |                 |                 |           |                | •               | •            | •             | 137         |
| BL                     |               |                       |   |          | •      | •               |                 |                 | •               |          |                | •           |               |               |                   |            |                |                 |                 |           |                | •               | •            | •             | 137         |
| BX                     |               |                       |   |          |        |                 | •               | •               |                 |          |                | •           |               |               |                   |            |                |                 |                 |           | •              |                 |              |               | 138         |
| Datamate               | •             | •                     | • | •        | •      |                 |                 |                 | •               |          | •              |             |               |               | •                 | •          |                | •               | •               | •         | •              |                 | •            | •             | 138         |
| EA                     | •             | •                     | • | •        | •      |                 |                 |                 |                 |          | •              |             | •             |               | •                 | •          |                | •               | •               | •         | •              |                 | •            | •             | 139         |
| Eclipse                | •             | •                     | • | •        | •      |                 |                 |                 |                 |          | •              |             | •             |               | •                 | •          | •              | •               | •               | •         | •              |                 |              |               | 139         |
| MediaMate              | •             | •                     | • | •        | •      |                 |                 |                 |                 |          | •              |             |               |               |                   | •          |                | •               | •               | •         | •              |                 | •            | •             | 141         |
| SA                     | •             | •                     | • | •        | •      |                 |                 |                 |                 |          | •              |             |               |               | •                 | •          |                | •               | •               | •         | •              |                 | •            | •             | 142         |
| SR                     |               |                       |   |          |        | •               |                 | •               |                 |          |                |             |               |               |                   |            |                |                 |                 |           |                |                 |              |               | 142         |
| ML                     | •             | •                     | • | •        | •      |                 |                 |                 |                 |          | •              | •           | •             |               | •                 | •          |                | •               | •               | •         | •              |                 | •            | •             | 143         |
| ST                     |               | •                     |   |          |        |                 |                 |                 |                 |          |                |             |               |               |                   |            |                |                 |                 |           |                |                 |              |               | 143         |
| 19mm                   |               |                       |   |          | •      | •               | •               |                 |                 |          |                | •           |               |               |                   |            |                |                 |                 |           | •              |                 |              |               | 144         |
| 13mm                   |               |                       |   |          | •      | •               | •               |                 |                 |          |                | •           |               |               |                   |            |                |                 |                 |           | •              |                 |              |               | 145         |
| SPT                    | •             | •                     | • | •        | •      |                 |                 |                 |                 | •        | •              | •           |               |               | •                 | •          | •              | •               | •               | •         | •              | •               | •            | •             | 146         |

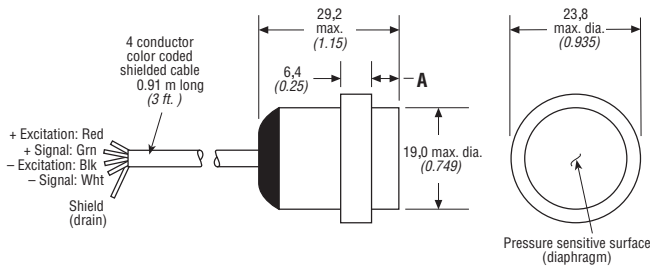
## AB/HP Series



The AB-High Performance pressure transducer is extremely accurate down to 0.25% span over a wide compensated temperature range. Both zero and full-scale temperature compensation are held to extremely narrow limits.

The transducer's body is made in a configuration permitting its use as a 'flush-mounted' device in situations where ease of cleaning or low-fluid volumes are major requirements. It may also be mounted in an adaptor for more conventional installations. Made from 316L or 15-5PH stainless steel, the AB/HP offer premium performance and flexibility at OEM prices.

**Approvals:** CE  
**Supply voltage:** 5.0 Vdc, 6.0 Vdc max.  
**Signal conditioning:** Unamplified compensation  
**Compensated temperature range:** -1 °C to 71 °C (30 °F to 160 °F)  
**Port style:** Flush Diaphragm  
**Output type:** 0 mV to 100 mV



### OPTIONS

**0,91 m (3 ft) 4-Conductor Shielded Cable**  
**-54 °C to 93 °C (-65 °F to 200 °F)**

| MEASUREMENT TYPE | PRESSURE RANGE       | REFERENCE   |
|------------------|----------------------|-------------|
| Absolute         | 0 psia to 15 psia    | ABH015PAC1B |
| Absolute         | 0 psia to 50 psia    | ABH050PAC1B |
| Gauge            | 0 psig to 6 psig     | ABH006PGC1B |
| Gauge            | 0 psig to 25 psig    | ABH025PGC1B |
| Gauge            | 0 psig to 15 psig    | ABH015PGC1B |
| Sealed Gauge     | 0 psis to 100 psis   | ABH100PSC1B |
| Sealed Gauge     | 0 psis to 200 psis   | ABH200PSC1B |
| Sealed Gauge     | 0 psis to 500 psis   | ABH500PSC1B |
| Sealed Gauge     | 0 psis to 1,000 psis | ABH01KPSC1B |
| Sealed Gauge     | 0 psis to 2,000 psis | ABH02KPSC1B |
| Sealed Gauge     | 0 psis to 3,000 psis | ABH03KPSC1B |

**Bendix High Temperature Connector**  
**-54 °C to 149 °C (-65 °F to 300 °F)**

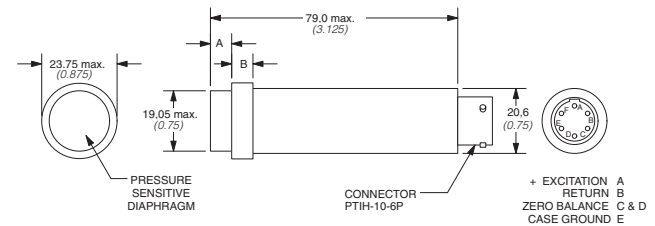
| MEASUREMENT TYPE | PRESSURE RANGE        | REFERENCE  |
|------------------|-----------------------|------------|
| Absolute         | 0 psia to 25 psia     | ABH025PABB |
| Sealed Gauge     | 0 psis to 3,000 psis  | ABH03KPSBB |
| Sealed Gauge     | 0 psis to 10,000 psis | ABH10KPSBB |

## BL Series



The BL pressure transmitter has a conventional 4 mA to 20 mA output and is available with accuracies to 0.25%. It has Factory Mutual approval as an intrinsically safe device for use in hazardous areas. Class I, Division I, Groups A through G (when used within approved barriers).

**Approvals:** CE, FM  
**Supply voltage:** 12.0 Vdc to 30.0 Vdc  
**Signal conditioning:** Amplified compensated  
**Operating temperature range:** -40 °C to 82 °C (-40 °F to 180 °F)  
**Compensated temperature range:** -1 °C to 54 °C (-30 °F to 130 °F)  
**Port style:** Flush Diaphragm  
**Output type:** 4 mA to 20 mA  
**Termination type:** Bendix Connector



### PRESSURE RANGE (PSI)

| Pressure Range (PSI) | Dim. A MAX | Dim. B    |
|----------------------|------------|-----------|
| 0-5                  | .271 (6.9) | .25 (6.4) |
| 1-15 to 0-50         | .232 (5.9) | .25 (6.4) |
| 0-100 to 0-200       | .238 (6.1) | .25 (6.4) |
| 0-500 to 0-1000      | .238 (6.1) | .19 (4.8) |
| 0-2000 to 0-5000     | .273 (6.9) | .19 (4.8) |
| 0-10000              | .287 (7.3) | .19 (4.8) |
| 0-20000              | .285 (7.5) | .19 (4.8) |

### OPTIONS

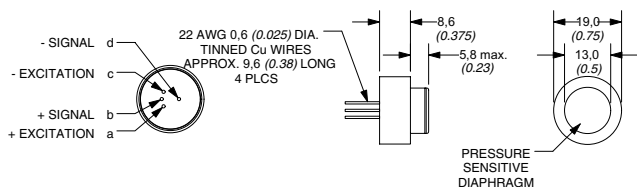
| MEASUREMENT TYPE | PRESSURE RANGE        | REFERENCE  |
|------------------|-----------------------|------------|
| Gauge            | 0 psig to 15 psig     | BLH015PGBG |
| Gauge            | 0 psig to 15 psig     | BL015PGBG  |
| Sealed Gauge     | 0 psis to 100 psis    | BL100PSBG  |
| Sealed Gauge     | 0 psis to 100 psis    | BLH100PSBG |
| Sealed Gauge     | 0 psis to 200 psis    | BL200PSBG  |
| Sealed Gauge     | 0 psis to 500 psis    | BL500PSBG  |
| Sealed Gauge     | 0 psis to 5,000 psis  | BL05KPSBG  |
| Sealed Gauge     | 0 psis to 10,000 psis | BLH10KPSBG |

## BX Series



The BX pressure sensor is intended for OEMs who need a small, high performance pressure sensor. The unique sensor module design eliminates the need for oil-filled capsules and corrugated diaphragms providing a true, robust sensing surface for long life and superior performance.

|                                       |                                     |
|---------------------------------------|-------------------------------------|
| <b>Supply voltage:</b>                | 5.0 Vdc                             |
| <b>Signal conditioning:</b>           | Unamplified compensated             |
| <b>Operating temperature range:</b>   | -40 °C to 100 °C (-40 °F to 212 °F) |
| <b>Compensated temperature range:</b> | 0 °C to 80 °C (32 °F to 130 °F)     |
| <b>Port style:</b>                    | Flush diaphragm                     |
| <b>Output type:</b>                   | 0 mV to 50 mV                       |
| <b>Termination type:</b>              | 4 - 22 AWG tinned Cu wires          |



### OPTIONS

| MEASUREMENT TYPE | PRESSURE RANGE    | REFERENCE |
|------------------|-------------------|-----------|
| Gauge            | 0 psig to 15 psig | BX015PGTA |

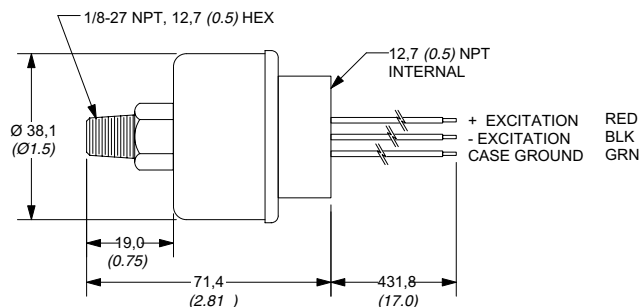
## Datamate Series



The DATAMATE is a two-wire pressure transmitter which is compatible with data loggers and instrumentation used in processing environments. Its 4 mA to 20 mA output is ideal for remote monitoring of both primary and secondary process variables.

The DATAMATE is made of series 300 stainless steel. It is suitable for use with a variety of media that would otherwise require insulators. It is also intrinsically safe (when used within approved barriers) for use in Class I, Division I, Groups A through G hazardous areas.

|                                       |                                              |
|---------------------------------------|----------------------------------------------|
| <b>Approval:</b>                      | FM                                           |
| <b>Supply voltage:</b>                | 12.0 Vdc to 40.0 Vdc                         |
| <b>Signal conditioning:</b>           | Amplified compensated                        |
| <b>Operating temperature range:</b>   | -40 °C to 100 °C (-40 °F to 212 °F)          |
| <b>Compensated temperature range:</b> | -1 °C to 54 °C (30 °F to 130 °F)             |
| <b>Port style:</b>                    | 1/8 - 27 NPT                                 |
| <b>Output type:</b>                   | 4 mA to 20 mA                                |
| <b>Termination type:</b>              | 3-wire, 24 AWG, 1/2 in. NPT internal conduit |



### OPTIONS

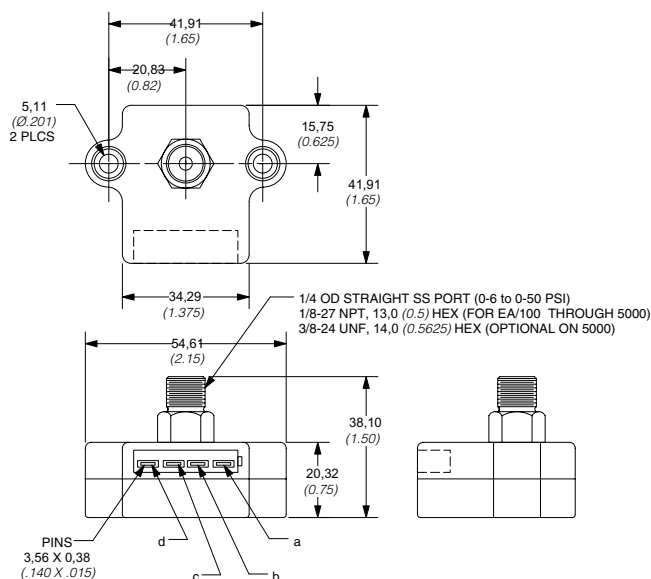
| MEASUREMENT TYPE | PRESSURE RANGE       | REFERENCE  |
|------------------|----------------------|------------|
| Gauge            | 0 psig to 15 psig    | DM015PG1WG |
| Gauge            | 0 psig to 50 psig    | DM050PG1WG |
| Sealed Gauge     | 0 psig to 100 psig   | DM100PS1WG |
| Sealed Gauge     | 0 psig to 200 psig   | DM200PS1WG |
| Sealed Gauge     | 0 psig to 500 psig   | DM500PS1WG |
| Sealed Gauge     | 0 psig to 5,000 psig | DM05KPS1WG |

## EA Series



The EA Series is designed for OEM users requiring high output and corrosion-resistance. It has operated through millions of pressure cycles without damage and is well suited for the cycling regimes found in automatic equipment, robots, and hydraulic systems.

**Approval:** UL  
**Supply voltage:** 85.0 Vdc  
**Signal conditioning:** Amplified compensated  
**Compensated temperature range:** 1 °C to 85 °C (30 °F to 185 °F)  
**Port style:** 1/8 in - 27 NPT  
**Termination type:** Quick disconnect  
**Measurement type:** Gauge



### OPTIONS

**Output 1 Vdc to 6 Vdc**  
**-55 °C to 100 °C (-67 °F to 212 °F)**

| MEASUREMENT TYPE | PRESSURE RANGE       | REFERENCE  |
|------------------|----------------------|------------|
| Gauge            | 0 psig to 6 psig     | EA006PG1QD |
| Gauge            | 0 psig to 15 psig    | EA015PG1QD |
| Gauge            | 0 psig to 25 psig    | EA025PG1QD |
| Gauge            | 0 psig to 100 psig   | EA100PG1QD |
| Gauge            | 0 psig to 200 psig   | EA200PG1QD |
| Gauge            | 0 psig to 300 psig   | EA300PG1QD |
| Gauge            | 0 psig to 500 psig   | EA500PG1QD |
| Gauge            | 0 psig to 1,000 psig | EA1KPG1QD  |
| Gauge            | 0 psig to 5,000 psig | EA5KPG1QD  |

**Output 1 kHz to 6 kHz**  
**-40 °C to 85 °C (-40 °F to 185 °F)**

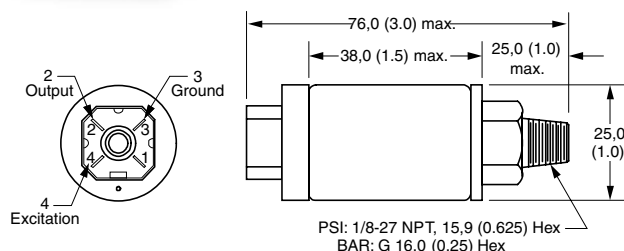
| MEASUREMENT TYPE | PRESSURE RANGE     | REFERENCE  |
|------------------|--------------------|------------|
| Gauge            | 0 psig to 300 psig | EA300PG1QF |
| Gauge            | 0 psig to 500 psig | EA500PG1QF |

## Eclipse Series



The Eclipse (EC) Series pressure transducers are designed for OEMs who require a reliable pressure transducer for industrial or heavy-duty applications. The model EC features our proven all-wetted stainless steel design, rugged packaging, internal signal amplification, and price which makes it an ideal sensor for a variety of applications. The model EC offers a broad selection of pressure ranges, output ranges, process connections, and electrical termination to meet the demanding requirements of customers worldwide.

**Approvals:** UL, CE  
**Supply voltage:** 5.0 Vdc  
**Signal conditioning:** Amplified compensated  
**Operating temperature range:** -40 °C to 105 °C (-40 °F to 221 °F)  
**Compensated temperature range:** -40 °C to 105 °C (-40 °F to 221 °F)



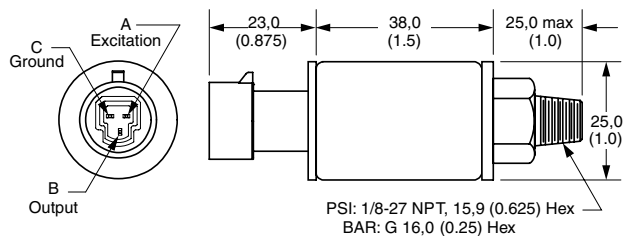
### OPTIONS

The Model Eclipse is available with a mini DIN style electrical connector. This connection is a popular choice throughout the world and offers quick disconnection, but can be rigidly attached with the center screw fastener. The cable exit may be adjusted to any 90° direction.

**Hirschmann - 0.5 Vdc to 4.5 Vdc Output**  
**1/8 in - 27 NPT Connector**

| MEASUREMENT TYPE | PRESSURE RANGE     | REFERENCE  |
|------------------|--------------------|------------|
| Sealed Gauge     | 0 psig to 200 psig | EC200PS1HC |
| Sealed Gauge     | 0 psig to 500 psig | EC500PS1HC |

## Eclipse Series (continued)



### OPTIONS

To meet the requirements of automotive applications, the Model Eclipse is offered with the Packard Metri-Pack™ electrical connector. This connector has been specified for the extreme environments found in engine and hydraulic applications. The connector has a locking lug to maintain the connection with the mating plug.

#### Packard - 0.5 Vdc to 4.5 Vdc Output 1/8 in - 27 NPT Connector

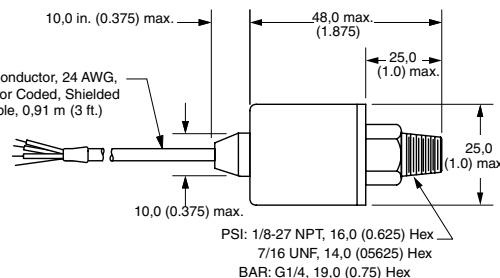
| MEASUREMENT TYPE | PRESSURE RANGE       | REFERENCE  |
|------------------|----------------------|------------|
| Sealed Gauge     | 0 psis to 200 psis   | EC200PS1PC |
| Sealed Gauge     | 0 psis to 300 psis   | EC300PS1PC |
| Sealed Gauge     | 0 psis to 500 psis   | EC500PS1PC |
| Sealed Gauge     | 0 psis to 2,000 psis | EC02KPS1PC |
| Sealed Gauge     | 0 psis to 3,000 psis | EC03KPS1PC |

#### G1/4 in - 19 BSP Connector

| MEASUREMENT TYPE | PRESSURE RANGE   | REFERENCE  |
|------------------|------------------|------------|
| Sealed Gauge     | 0 bar to 350 bar | EC350BS6PC |

#### 4 mA to 20 mA Output G1/4 in - 19 BSP Connector

| MEASUREMENT TYPE | PRESSURE RANGE | REFERENCE  |
|------------------|----------------|------------|
| Gauge            | 0 bar to 1 bar | EC001BG6PG |



### OPTIONS

The Model Eclipse can be provided with an all stainless steel case and an integral cable for electrical connection. The advantage of this arrangement is that the environment rating is increased to IP66 and would be recommended for extreme outdoor or industrial environments.

#### Model Cable

| MEASUREMENT TYPE | PRESSURE RANGE       | REFERENCE  |
|------------------|----------------------|------------|
| Sealed Gauge     | 0 psis to 100 psis   | EC100PS1CG |
| Sealed Gauge     | 0 psis to 5,000 psis | EC05KPS1CG |

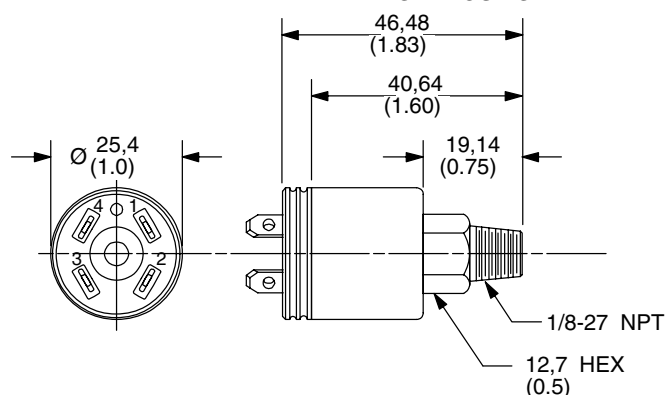
# MediaMate Series



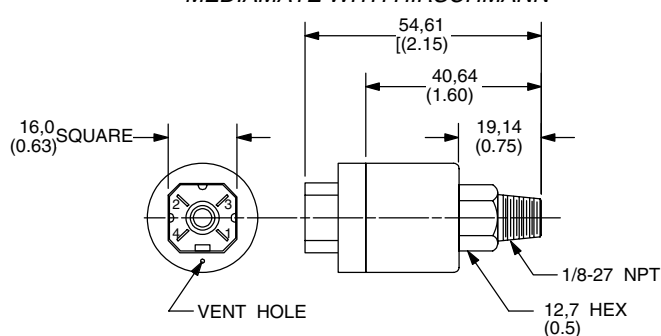
The MEDIAMATE pressure transducer provides the user with the corrosion resistance of stainless steel at low OEM pricing. It is fully compensated and completely interchangeable without further calibration. The MEDIAMATE's wetted parts and outer case are made from 300 series stainless steel. It is now being used with a wide variety of corrosive media such as Freon®, ammonia, water, and hydraulic fluids.

**Approvals:** CE  
**Supply voltage:** 5.0 Vdc, 6.0 Vdc max.  
**Signal conditioning:** Unamplified compensated  
**Operating temperature range:** -40 °C to 100 °C (-40 °F to 212 °F)  
**Compensated temperature range:** -1 °C to 82 °C (30 °F to 180 °F)  
**Output type:** 0 mV to 50 mV Gauge  
**Measurement type:**

MEDIAMATE WITH HOLLINGSWORTH



MEDIAMATE WITH HIRSCHMANN



PIN CODES ARE FOR OPTIONAL HIRSCHMANN AND HOLLINGSWORTH CONNECTORS

| Hollingsworth Pin Code | Hirschmann Pin Code | Function     |
|------------------------|---------------------|--------------|
| 1                      | 1                   | + Signal     |
| 2                      | 2                   | + Excitation |
| 3                      | 3                   | - Signal     |
| 4                      | 4                   | - Excitation |

## OPTIONS

### Hollingsworth - 1/8 in - 27 NPT Connector

| MEASUREMENT TYPE | PRESSURE RANGE       | REFERENCE  |
|------------------|----------------------|------------|
| Gauge            | 0 psig to 15 psig    | MM015PG1QA |
| Gauge            | 0 psig to 100 psig   | MM100PG1QA |
| Gauge            | 0 psig to 200 psig   | MM200PG1QA |
| Gauge            | 0 psig to 500 psig   | MM500PG1QA |
| Gauge            | 0 psig to 1,000 psig | MM01KPG1QA |
| Gauge            | 0 psig to 5,000 psig | MM05KPG1QA |

### Hollingsworth - 3/8 in UNF Connector

| MEASUREMENT TYPE | PRESSURE RANGE       | REFERENCE  |
|------------------|----------------------|------------|
| Gauge            | 0 psig to 5,000 psig | MM05KPG3QA |

## OPTIONS

### Hirschmann - G-1/8 in BSP Connector

| MEASUREMENT TYPE | PRESSURE RANGE       | REFERENCE   |
|------------------|----------------------|-------------|
| Gauge            | 0 psig to 25 psig    | MM025PG10HA |
| Gauge            | 0 psig to 200 psig   | MM200PG10HA |
| Gauge            | 0 psig to 5,000 psig | MM05KPG10HA |
| Gauge            | 0 psig to 7,000 psig | MM07KPG10HA |

### Hirschmann - 1/8 in - 27 NPT Connector

| MEASUREMENT TYPE | PRESSURE RANGE     | REFERENCE   |
|------------------|--------------------|-------------|
| Gauge            | 0 psig to 50 psig  | MM050PG11HA |
| Gauge            | 0 psig to 100 psig | MM100PG11HA |

### Hirschmann - G-1/4 in BSP Connector

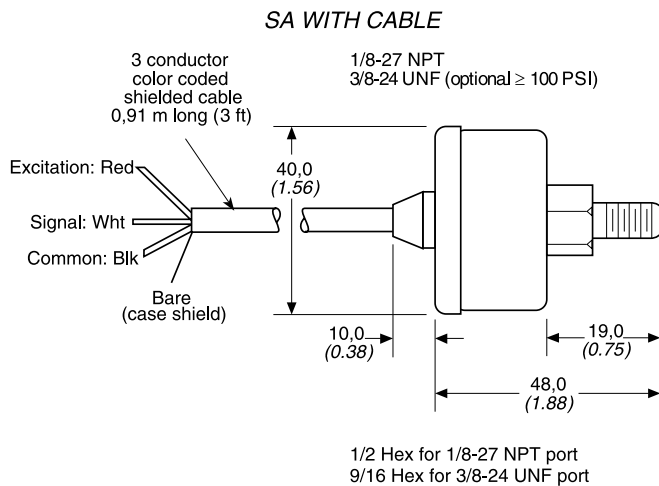
| MEASUREMENT TYPE | PRESSURE RANGE       | REFERENCE  |
|------------------|----------------------|------------|
| Gauge            | 0 psig to 5,000 psig | MM05KPG6HA |

# SA Series



The harsh duty SA pressure transducer has a water resistant, stainless steel case for complete protection from harsh environments. Internal hermetic sealing is used to provide measurement from absolute pressures (psia) or pressures referenced to a sealed chamber (psis). Underwriters Laboratories has approved the SA as a component in float and pressure-operated motor controllers (File #E93356).

**Approvals:** UL (\*C1D products)  
CE (\*C1DE products)  
**Supply voltage:** 9.0 Vdc to 24.0 Vdc  
**Signal conditioning:** Amplified compensated  
**Operating temperature range:** -55 °C to 105 °C (-48 °F to 221 °F)  
**Compensated temperature range:** -1 °C to 85 °C (30 °F to 185 °F)  
**Port style:** 1/8-27 NPT  
**Output type:** 1 Vdc to 6 Vdc  
**Termination type:** 0,91 m (3 ft) 3-conductor shielded cable



## OPTIONS

### UL Approval

| MEASUREMENT TYPE | PRESSURE RANGE       | REFERENCE   |
|------------------|----------------------|-------------|
| Absolute         | 0 psia to 15 psia    | SA015PA1C1D |
| Absolute         | 0 psia to 25 psia    | SA025PA1C1D |
| Absolute         | 0 psia to 50 psia    | SA050PA1C1D |
| Absolute         | 0 psia to 100 psia   | SA100PA1C1D |
| Gauge            | 0 psig to 15 psig    | SA015PG1C1D |
| Sealed Gauge     | 0 psis to 100 psis   | SA100PS1C1D |
| Sealed Gauge     | 0 psis to 200 psis   | SA200PS1C1D |
| Sealed Gauge     | 0 psis to 500 psis   | SA500PS1C1D |
| Sealed Gauge     | 0 psis to 3,000 psis | SA03KPS1C1D |

### CE Approval

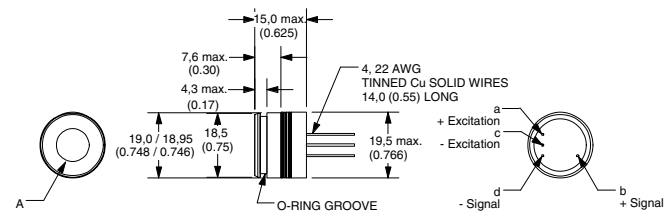
| MEASUREMENT TYPE | PRESSURE RANGE    | REFERENCE    |
|------------------|-------------------|--------------|
| Absolute         | 0 psia to 25 psia | SA025PA1C1DE |
| Absolute         | 0 psia to 50 psia | SA050PA1C1DE |

# SR Series



The Model SR is intended for OEMs requiring a small pressure sensor with high pressure capability and superior corrosion resistance. Constructed of brazen assembly of 300 series stainless steels, the SR can tolerate a wide variety of corrosive media without risk of leaking. The SR's design provide high working pressures and high overload and burst pressures at no extra cost.

**Supply voltage:** 5.0 Vdc  
**Signal conditioning:** Unamplified compensated  
**Operating temperature range:** -40 °C to 100 °C (-40 °F to 212 °F)  
**Compensated temperature range:** 0 °C to 75 °C (32 °F to 167 °F)  
**Port style:** Capsule  
**Output type:** 0 mV to 100 mV  
**Termination type:** 4 - 22 AWG tinned Cu wires



**PRESSURE RANGE (PSI)**

| Pressure Range (PSI) | * A          |        |                 |              |
|----------------------|--------------|--------|-----------------|--------------|
|                      | Bore Dia.    | O-Ring | Sealing Depth** | Cavity Depth |
| 15-500               | .500 (12.70) | 2-012  | .21 (5.33)      | .22 (5.58)   |
| 1000-1500            | .375 (9.52)  | 2-010  | .21 (5.33)      | .22 (5.58)   |
| 2000                 | .375 (9.52)  | 2-010  | .21 (5.33)      | .22 (5.58)   |

CAUTION: Contact with sensing surface at bottom of cavity will affect accuracy and may cause damage. The O-ring groove on 2000 psi unit is wider to accommodate a backup ring behind the O-ring.  
All dimensions in inches (mm).

## OPTIONS

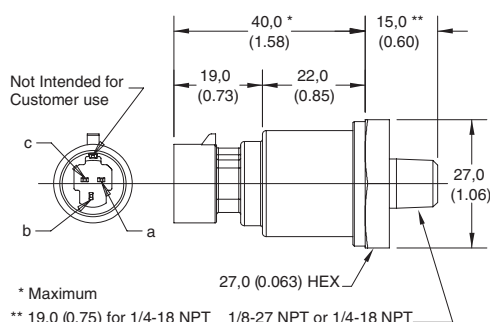
| MEASUREMENT TYPE | PRESSURE RANGE       | REFERENCE |
|------------------|----------------------|-----------|
| Gauge            | 0 psig to 15 psig    | SR015PGTB |
| Gauge            | 0 psig to 25 psig    | SR025PGTB |
| Gauge            | 0 psig to 50 psig    | SR050PGTB |
| Gauge            | 0 psig to 100 psig   | SR100PGTB |
| Gauge            | 0 psig to 200 psig   | SR200PGTB |
| Gauge            | 0 psig to 300 psig   | SR300PGTB |
| Gauge            | 0 psig to 500 psig   | SR500PGTB |
| Gauge            | 0 psig to 1,000 psig | SR01KPGTB |
| Gauge            | 0 psig to 2,000 psig | SR02KPGTB |

## ML Series



The Model ML pressure transducers combines the latest in ASIC technology with our proven stainless steel design. This digitally compensated transducer offers an unparalleled value and performance combination making it the ideal pressure sensing solution for demanding automotive and industrial applications. Fully temperature compensated, calibrated, and amplified, the ML is available in 100 to 5,000 psig pressure ranges.

**Approval:** UL  
**Supply voltage:** 5.0 Vdc  
**Signal conditioning:** Amplified compensated  
**Operating temperature range:** -40 °C to 105 °C (-40 °F to 221 °F)  
**Compensated temperature range:** -40 °C to 105 °C (-40 °F to 221 °F)  
**Termination type:** Packard Metri-Pack™ Connector  
**Measurement type:** Sealed Gauge



### OPTIONS

#### 0.5 Vdc to 4.5 Vdc Output 1/8 in - 27 NPT Connector

| SUPPLY VOLTAGE | PRESSURE RANGE       | REFERENCE  |
|----------------|----------------------|------------|
| 5.0 Vdc        | 0 psig to 1,000 psig | ML01KPS1PC |
| 5.0 Vdc        | 0 psig to 100 psig   | ML100PS1PC |

#### 1/4 in - 18 NPT Connector

| SUPPLY VOLTAGE | PRESSURE RANGE  | REFERENCE  |
|----------------|-----------------|------------|
| 5.0 Vdc        | 0 bar to 10 bar | ML010BS2PC |

#### 4 mA to 20 mA Output 1/8 in - 27 NPT Connector

| SUPPLY VOLTAGE      | PRESSURE RANGE     | REFERENCE  |
|---------------------|--------------------|------------|
| 9.5 Vdc to 35.0 Vdc | 0 psig to 100 psig | ML100PS1PG |

#### 1/4 in - 18 NPT Connector

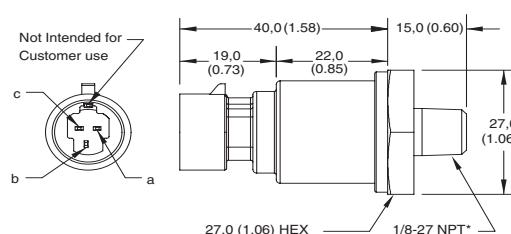
| SUPPLY VOLTAGE      | PRESSURE RANGE     | REFERENCE  |
|---------------------|--------------------|------------|
| 9.5 Vdc to 35.0 Vdc | 0 psig to 100 psig | ML100PS2PG |
| 9.5 Vdc to 35.0 Vdc | 0 psig to 300 psig | ML300PS2PG |
| 9.5 Vdc to 35.0 Vdc | 0 bar to 60 bar    | ML060BS2PG |

## ST Series



The Model ST pressure transducer combines Honeywell's proven silicon pressure sensing with the latest in ASIC technology in a rugged, industrial package. High value, coupled with outstanding performance, make this an ideal transducer for industrial control applications such as air compressors and pneumatic equipment.

**Signal conditioning:** Amplified compensated  
**Operating temperature range:** -40 °C to 100 °C (-40 °F to 212 °F)  
**Compensated temperature range:** -40 °C to 100 °C (-40 °F to 212 °F)  
**Termination type:** Packard Metri-Pack™ Connector  
**Measurement type:** Gauge



### OPTIONS

#### 4.0 mA to 20 mA Output 1/8 in - 27 NPT Connector

| SUPPLY VOLTAGE    | PRESSURE RANGE     | REFERENCE    |
|-------------------|--------------------|--------------|
| 9.5 Vdc to 35 Vdc | 0 bar to 10 bar    | ST010BG1SPGF |
| 9.5 Vdc to 35 Vdc | 0 psig to 200 psig | ST200PG1SPGF |

#### 1/4 in - 18 NPT Connector

| SUPPLY VOLTAGE    | PRESSURE RANGE   | REFERENCE    |
|-------------------|------------------|--------------|
| 9.5 Vdc to 35 Vdc | 0 bar to 10 bar  | ST010BG2SPGF |
| 9.5 Vdc to 35 Vdc | 0 bar to 2.5 bar | ST2R5BG2SPGF |
| 9.5 Vdc to 35 Vdc | 0 bar to 6.0 bar | ST006BG2SPGF |

#### 0.5 Vdc to 4.5 Vdc Ratiometric Output 1/4 in - 18 NPT Connector

| SUPPLY VOLTAGE | PRESSURE RANGE    | REFERENCE    |
|----------------|-------------------|--------------|
| 5.0 Vdc        | 0 psig to 50 psig | ST050PG2SPCF |

# 19mm Series

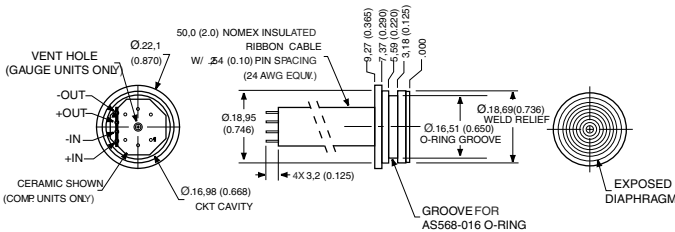


The ICT stainless steel 19C and 19 Vacuum Gauge Series devices are designed for pressure applications that involve measurement of hostile media in harsh environments compatible with 316 stainless steel. The special Vacuum Gauge Series devices are specifically designed for applications that can be exposed to a vacuum.

**Supply voltage:** 1.5 mA or 10.0 Vdc  
**Signal conditioning:** Unamplified compensated  
**Operating temperature range:** -40 °C to 125 °C (-40 °F to 257 °F)  
**Compensated temperature range:** 0 °C to 82 °C (32 °F to 179 °F)  
**Output type:** 98 mV to 102 mV  
**Termination type:** 50,0 mm (2.0 in) Nomex ribbon cable

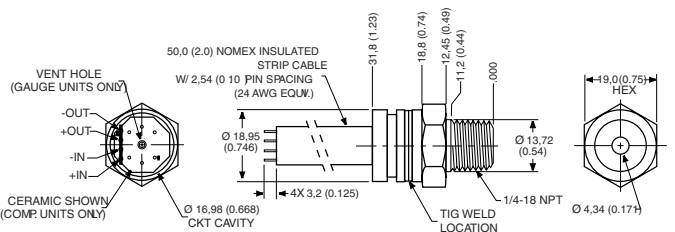
## OPTIONS

### 19 Vacuum Gauge Series - Flush Mount with Flange



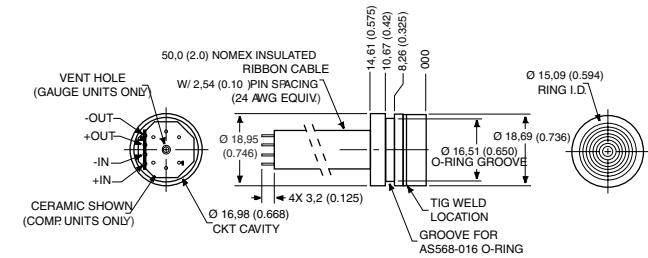
| MEASUREMENT  | PRESSURE RANGE    | REFERENCE  |
|--------------|-------------------|------------|
| Vacuum Gauge | 0 psig to 15 psig | 19C015PV3K |

### 1/4 in - 18 NPT



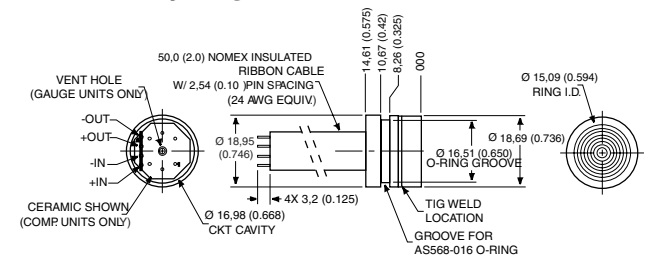
| MEASUREMENT  | PRESSURE RANGE     | REFERENCE  |
|--------------|--------------------|------------|
| Vacuum Gauge | 0 psig to 100 psig | 19C100PV5L |
| Vacuum Gauge | 0 psig to 15 psig  | 19C015PV5L |

### Cell with Body Ring, 10 Vdc Excitation



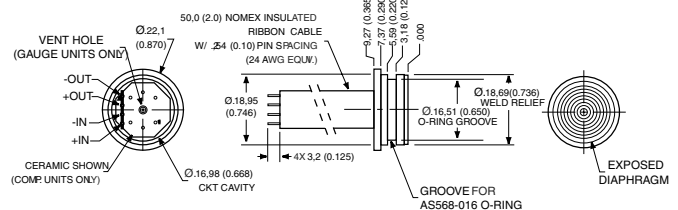
| MEASUREMENT | PRESSURE RANGE     | REFERENCE  |
|-------------|--------------------|------------|
| Gauge       | 0 psig to 15 psig  | 19C015PG1K |
| Gauge       | 0 psig to 5.0 psig | 19C005PG1K |

### Cell with Body Ring, 1.5 mA Excitation



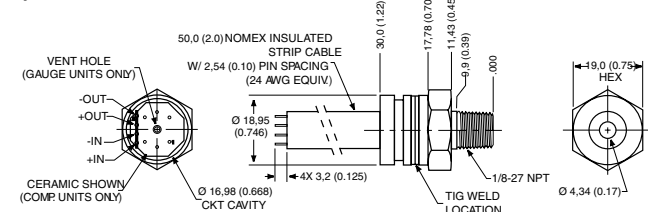
| MEASUREMENT | PRESSURE RANGE     | REFERENCE  |
|-------------|--------------------|------------|
| Gauge       | 0 psig to 100 psig | 19C100PG1L |
| Gauge       | 0 psig to 300 psig | 19C300PG1L |
| Gauge       | 0 psig to 3.0 psig | 19C003PG1L |
| Gauge       | 0 psig to 5.0 psig | 19C005PG1L |

### Flush Mount with Flange



| MEASUREMENT | PRESSURE RANGE     | REFERENCE  |
|-------------|--------------------|------------|
| Gauge       | 0 psig to 5.0 psig | 19C005PG3K |

### 1/8 in - 27 NPT



| MEASUREMENT | PRESSURE RANGE     | REFERENCE  |
|-------------|--------------------|------------|
| Gauge       | 0 psig to 15 psig  | 19C015PG4K |
| Gauge       | 0 psig to 300 psig | 19C300PG4K |

# 13mm Series

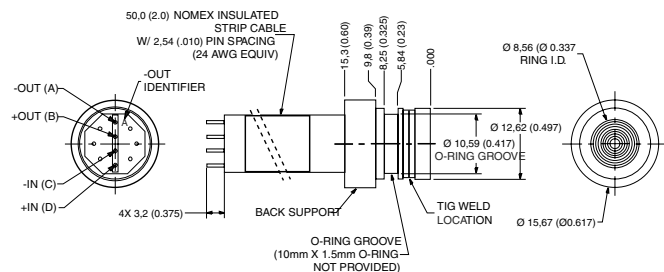


These ICT 13 mm stainless steel devices are designed for high pressure applications that involve measurement of hostile media in harsh environments. This series uses ICT's proven piezoresistive semiconductor sensor chip in an oil-isolated housing with or without an integral ceramic for temperature compensation and calibration. This design has proven to be highly reliable, stable, and accurate.

**Supply voltage:** 1.5 mA or 10 Vdc  
**Signal conditioning:** Unamplified  
**Operating temperature range:** -40 °C to 125 °C (-40 °F to 257 °F)  
**Compensated temperature range:** 0 °C to 82 °C (32 °F to 179 °F)

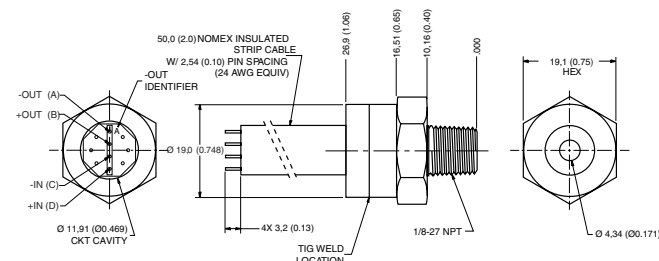
## OPTIONS

**Compensated Series - Ring with Back Support**  
**50,0 mm (2.0 in) Nomex ribbon cable**



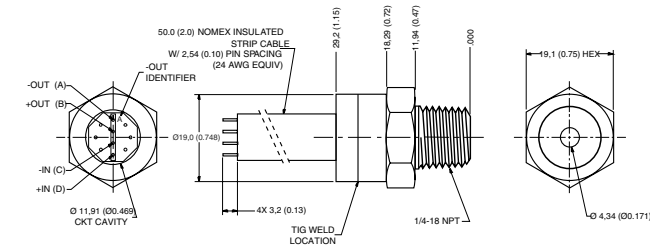
| MEASUREMENT TYPE | PRESSURE RANGE     | OUTPUT TYPE      | REFERENCE   |
|------------------|--------------------|------------------|-------------|
| Sealed Gauge     | 0 psi to 5,000 psi | 148 mV to 152 mV | 13C5000PS1L |
| Sealed Gauge     | 0 psi to 3,000 psi | 98 mV to 102 mV  | 13C3000PS1L |
| Sealed Gauge     | 0 psi to 1,000 psi | 98 mV to 102 mV  | 13C1000PS1L |

**1/8 in - 27 NPT**  
**50,0 mm (2.0 in) Nomex ribbon cable**



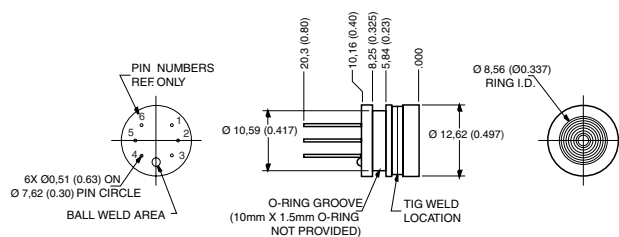
| MEASUREMENT TYPE | PRESSURE RANGE     | OUTPUT TYPE      | REFERENCE   |
|------------------|--------------------|------------------|-------------|
| Absolute         | 0 psi to 5,000 psi | 148 mV to 152 mV | 13C5000PA4K |

**1/4 in - 18 NPT**  
**50,0 mm (2.0 in) Nomex ribbon cable**



| MEASUREMENT TYPE | PRESSURE RANGE     | OUTPUT TYPE      | REFERENCE   |
|------------------|--------------------|------------------|-------------|
| Sealed Gauge     | 0 psi to 1,000 psi | 98 mV to 102 mV  | 13C1000PS5L |
| Sealed Gauge     | 0 psi to 5,000 psi | 148 mV to 152 mV | 13C5000PS5L |
| Sealed Gauge     | 0 psi to 3,000 psi | 98 mV to 102 mV  | 13C3000PS5L |

**Uncompensated Series**  
**Pin Connector**



| MEASUREMENT TYPE | PRESSURE RANGE     | OUTPUT TYPE      | REFERENCE   |
|------------------|--------------------|------------------|-------------|
| Absolute         | 0 psi to 1,000 psi | 175 mV to 300 mV | 13U1000PA0K |
| Absolute         | 0 psi to 5,000 psi | 290 mV to 500 mV | 13U5000PA0K |

# SPT Series

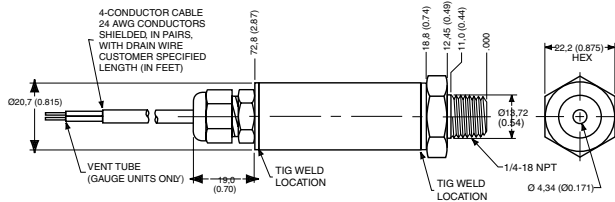


The SPT stainless steel devices are designed for pressure applications that involve measurement of hostile media in harsh environments and will accommodate any media that will not adversely attack 304 or 316 stainless steel wetted parts. The SPT stainless steel devices are rugged and reliable transducers for use in a wide variety of pressure sensing applications where corrosive liquids or gases are monitored.

**Signal conditioning:** Amplified and unamplified compensated  
**Compensated temperature range:** -10 °C to 85 °C (14 °F to 185 °F)  
**Operating temperature range:** -40 °C to 125 °C (-40 °F to 257 °F)  
**Measurement type:** Absolute, Sealed, and Gauge

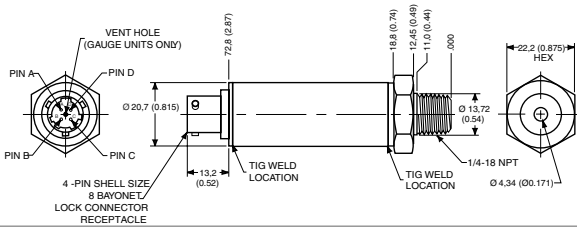
## OPTIONS

**4mA to 20 mA Output**  
**0,609 m (2 ft) 4-Conductor shielded pairs**



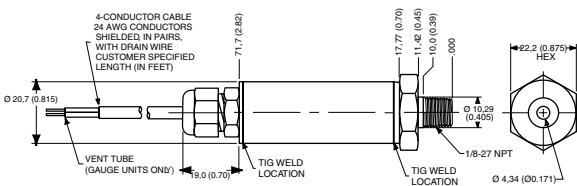
| SUPPLY VOLTAGE       | PRESSURE RANGE     | REFERENCE       |
|----------------------|--------------------|-----------------|
| 12.5 Vdc to 30.0 Vdc | 0 psi to 100 psi   | STPMA0100PG5W02 |
| 12.5 Vdc to 30.0 Vdc | 0 psig to 5.0 psig | SPTMA0005PG5W02 |

**1/4 in - 18 NPT - 0 mV to 100 mV Output**  
**Bayonet Connector**



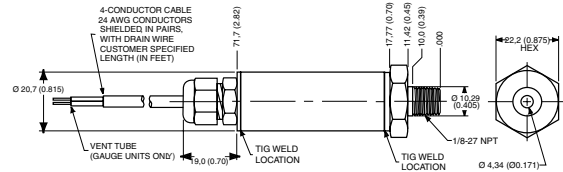
| SUPPLY VOLTAGE | PRESSURE RANGE     | REFERENCE     |
|----------------|--------------------|---------------|
| 10.0 Vdc       | 0 psig to 100 psig | STPMA0100PG5B |

**1/8 in - 27 NPT - 0 mV to 100 mV Output**  
**0,609 m (2 ft) 4-Conductor shielded pairs**



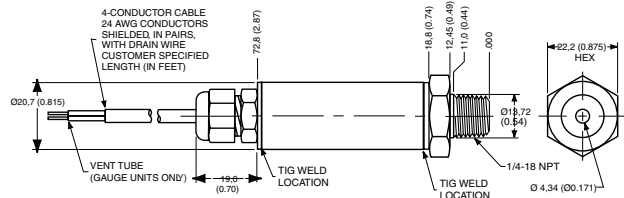
| SUPPLY VOLTAGE | PRESSURE RANGE   | REFERENCE       |
|----------------|------------------|-----------------|
| 10.0 Vdc       | 0 psi to 100 psi | SPTMV0100PG4W02 |

**1/8 in - 27 NPT**  
**0,609 m (2 ft) 4-Conductor shielded pairs**  
**1.0 Vdc to 5.0 Vdc Output**



| SUPPLY VOLTAGE       | PRESSURE RANGE  | REFERENCE       |
|----------------------|-----------------|-----------------|
| 12.0 Vdc to 30.0 Vdc | 0 psi to 15 psi | SPT4V0015PG4W02 |

**1/4 in - 18 NPT**  
**0,304 m (1 ft) 4-Conductor shielded pairs**  
**1.0 Vdc to 5.0 Vdc Output**

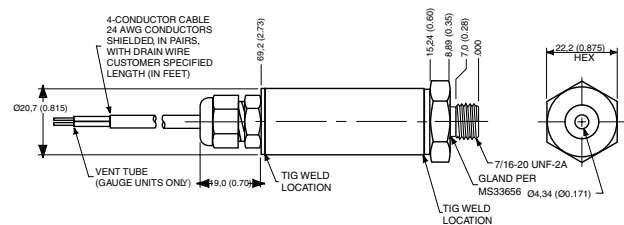


| SUPPLY VOLTAGE       | PRESSURE RANGE    | REFERENCE       |
|----------------------|-------------------|-----------------|
| 12.0 Vdc to 30.0 Vdc | 0 psig to 10 psig | SPT4V0010PG5W01 |

**1/4 in - 18 NPT**  
**0,609 m (2 ft) 4-Conductor shielded pairs**  
**1.0 Vdc to 5.0 Vdc Output**

| SUPPLY VOLTAGE       | PRESSURE RANGE   | REFERENCE       |
|----------------------|------------------|-----------------|
| 12.0 Vdc to 30.0 Vdc | 0 psi to 100 psi | STP4V0100PG5W02 |

**7/16 in UNF**  
**1.0 Vdc to 5.0 Vdc Output**



| SUPPLY VOLTAGE       | PRESSURE RANGE   | REFERENCE       |
|----------------------|------------------|-----------------|
| 12.0 Vdc to 30.0 Vdc | 0 psi to 200 psi | SPT4V0200PG6W02 |

**EN** - For pricing and availability in your local country please visit one of the below links:

**DE** - Informationen zu Preisen und Verfügbarkeit in Ihrem Land erhalten Sie über die unten aufgeführten Links:

**FR** - Pour connaître les tarifs et la disponibilité dans votre pays, cliquez sur l'un des liens suivants:

[SA500PS1C1D](#)

**EN**

This Datasheet is presented by  
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