



INDUSTRIAL OEM

Pressure Transducer

AST4000

Overview

The AST4000 OEM pressure transducer / transmitter remains the most popular configuration. With its welded stainless steel housing and various electrical connections, the AST4000 can be packaged for virtually any OEM pressure transducer application. Voltage and current output signals are available and all products.

Benefits

- High Strength Stainless Steel Construction
- No Oil, Welds or Internal O-rings
- Wide Operating Temperature
- Pressures up to 10,000 PSI
- Low Static and Thermal Errors
- Unparalleled Price and Performance
- Compatible with Wide Variety of Liquids and Gases
- EMI/RFI Protection
- UL/cUL 508 Approved (with housing)

Applications

- Industrial OEM Equipment
- Water Management
- Pneumatics
- Hydrogen Storage
- Sub Sea Pressure
- HVAC/R Equipment
- Control Panels
- Hydraulic Systems
- Data Loggers

Environmental Data

Ambient Temperature: 25°C (77°F) (Unless otherwise specified)

| | |
|-------------------|-----------------------------|
| Operating Ambient | -40 to 85°C (-40 to 185°F) |
| Storage | -40 to 100°C (-40 to 212°F) |

Electromagnetic Compatibility (EMC)

| Standard | Description | Test Value |
|-------------|--|---|
| EN55011 | Radiated Emissions | Class A, 30-1000 MHz |
| EN61000-4-2 | Electrostatic Discharge Immunity | ±8 kV Air Discharge ±4 kV Contact Discharge, VCP, HCP |
| EN61000-4-3 | Radiated Electromagnetic Field Immunity | 10V/m, 80-2700 MHz 80% 1kHz AM Modulation |
| EN61000-4-4 | Electrical Fast Transient/Burst Immunity | ±0.5 kV, ±1 kV, ±2 kV on DC Mains ±0.5 kV, ±1 kV on I/O Ports |
| EN61000-4-5 | Surge Immunity | ±0.5 kV, ±1 kV, on I/O Ports & DC Lines |
| EN61000-4-6 | Conducted immunity | 10V rms, 0.15-80 MHz, DC Mains 10V rms, 0.15-80 MHz, I/O Ports 80% 1kHz AM Modulation |
| EN61000-4-8 | Power Frequency Magnetic Field Immunity Test | 30 A/m @ (50Hz, 60Hz) 3 orthogonal orientations |

Shock, Vibration & Ingress Protection (IP)

| Standard | Description | Test Value |
|----------------|----------------------|---|
| EN 60067-2-27 | Shock Test | 500m/s ² , 6ms, half sine-wave, 6 shocks (3/direction), horizontal and vertical axis, 12 total shocks |
| EN 60068-2-6 | Sinusoidal Vibration | 5-25 Hz, 2mm, 25-150 Hz, 50m/s, Sweep rate: 1 octave/min, Duration: 24 hours/axis (48 hours total), horizontal and vertical axis |
| EN 60068-2-64 | Random Vibration | 10-2000 Hz, vibration level: 0.0314 (m/s ²) ² /Hz, 24 hrs/axis (48 hrs total), 2 directions: horizontal and vertical |
| IEC 60068-2-32 | Drop Test | Drop of 1 meter to floor made of concrete. Dropped twice on the threaded end and two times perpendicular to the threaded end. |
| IP-66 | Ingress Protection | Dust-tight, protected against powerful water jets |

Performance

Ambient Temperature: 25°C (77°F) (Unless otherwise specified)

| Parameters | MIN | TYP | MAX | UNITS | NOTES |
|-------------------------|------|--|------|---------|-------|
| Accuracy | -0.5 | | +0.5 | %Span | 1 |
| Zero Error | -1.0 | | +1.0 | %Span | 2 |
| Span Error | -1.5 | | +1.5 | %Span | 3 |
| Thermal Error, Zero | -1.5 | | +1.5 | %Span | 4 |
| Thermal Error, Span | -1.5 | | +1.5 | %Span | 5 |
| Stability (1 year) | | ±0.25 | | %Span | |
| Proof Pressure | | 2X Rated Pressure | | PSI | 6 |
| Burst Pressure | | 5X Rated Pressure or 20,000 (whichever is less) | | PSI | 7 |
| Compensated Temp. Range | | 0 - 55° (32 to 132°) | | °C (°F) | |

Electrical Data

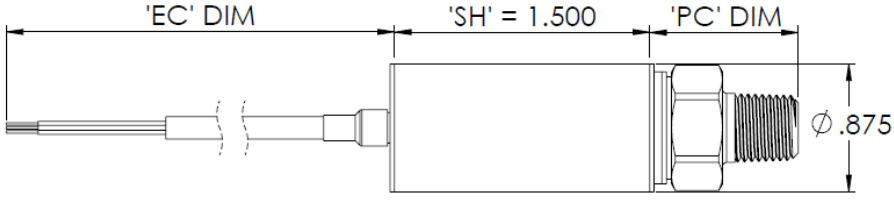
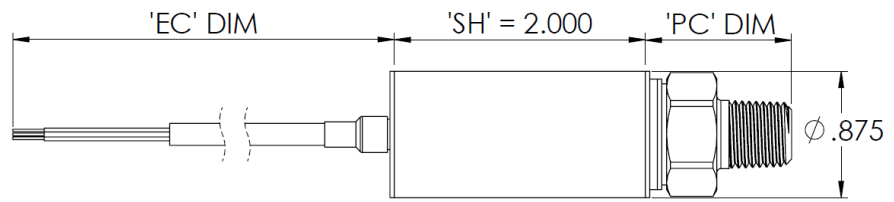
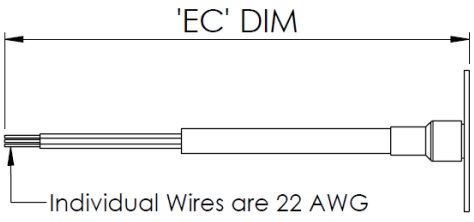
| Model | AST4000 | | |
|-----------------------------|-----------|------------|----------------------|
| Output | 4-20mA | 1-5V, 1-6V | 0.5-4.5V Ratiometric |
| Excitation | 10-28VDC | 10-28VDC | 5.0 ± 0.5VDC |
| Output Impedance | > 10k Ω | < 100 Ω | < 100 Ω |
| Current Consumption | - | <10mA | <10mA |
| Output Noise | - | <2mV RMS | <2mV RMS |
| Output Load | 0-800Ω | 10k Ω Min. | 10k Ω Min. |
| Reverse Polarity Protection | Yes | Yes | Yes |
| Bandwidth | DC-250 Hz | DC-1kHz | DC-1kHz |

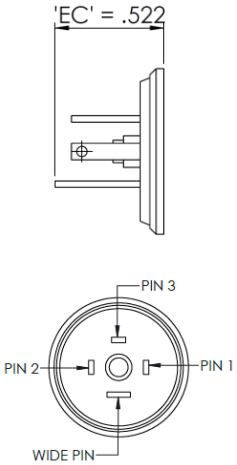
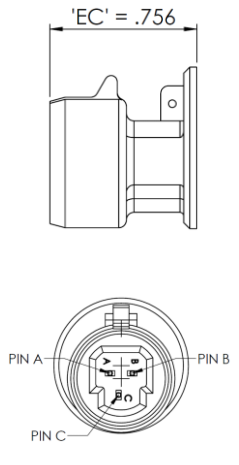
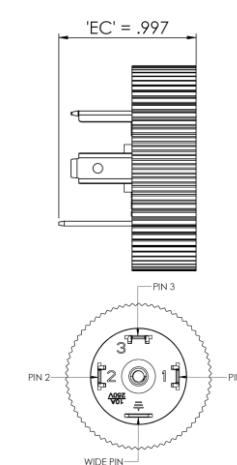
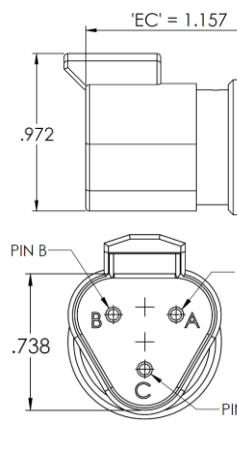
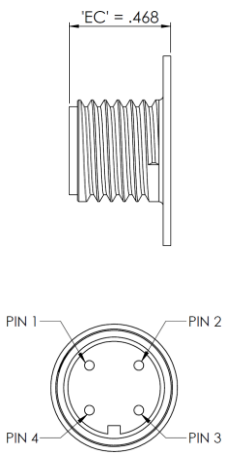
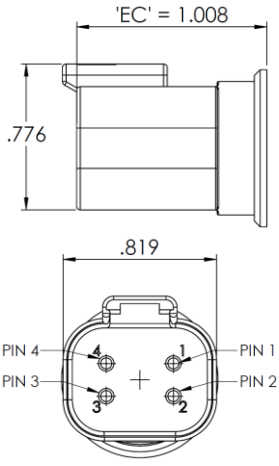
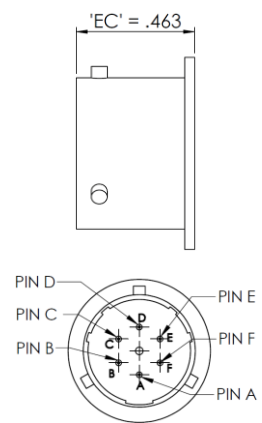
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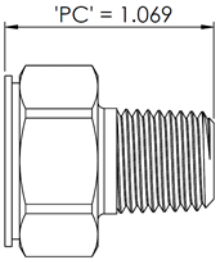
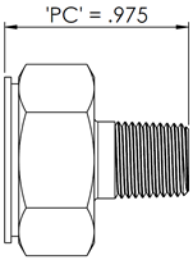
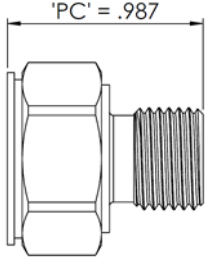
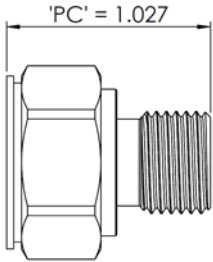
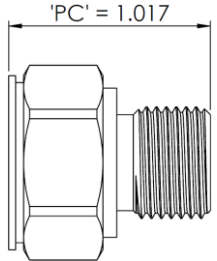
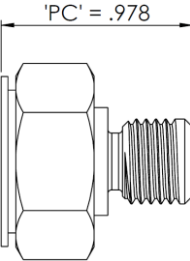
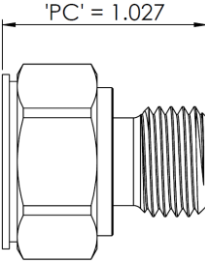
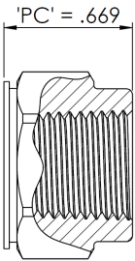
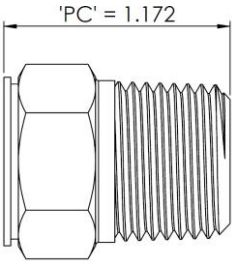
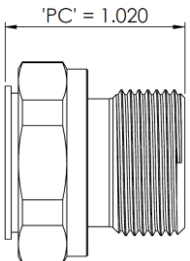
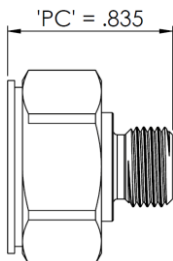
1. The maximum deviation from a best fit straight line (BFSL) fitted to the output measured over the pressure range at 25°C. Includes all errors due to pressure non-linearity, hysteresis, and non-repeatability. Span is the algebraic difference between full scale output and zero pressure offset.
2. The maximum variation from the ideal offset measured at 25°C.
3. The maximum variation from the ideal full-scale span measured at 25°C.
4. The maximum variation of offset within the compensated temperature range relative to 25°C.
5. The maximum variation of full-scale span within the compensated temperature range relative to 25°C.
6. The maximum pressure that can be safely applied to the product for it to remain in specification once pressure is returned to the operating pressure range.
7. The maximum pressure that can be applied without causing escape of the pressure media.

Dimensions & Electrical Connection

Unless otherwise specified, all dimensions are in inches

| <p><i>EC + SH + PC = Total Nominal Product Length</i></p>  | | <p>Ranges 25 PSI and Above</p> <p>EC = Electrical Connector SH = Sensor Housing PC = Process Connection V= Voltage Supply N/C= Not Connected WP= Wide Pin S=Signal</p> | | | | | | | | | | | | | | | | |
|---|------------------------|---|-----------------------|--------|-------|-----|-----|-------|-----|----|-----|----|----|-------|---|-----|---|--|
| <p><i>EC + SH + PC = Total Nominal Product Length</i></p>  | | <p>Ranges Below 25 PSI</p> <p>EC = Electrical Connector SH = Sensor Housing PC = Process Connection V= Voltage Supply N/C= Not Connected WP= Wide Pin S=Signal</p> | | | | | | | | | | | | | | | | |
| Electrical Connectors Option Codes | | | | | | | | | | | | | | | | | | |
| Cable | | | | | | | | | | | | | | | | | | |
| A 2ft (0.6m) | B 4ft (1.2m) | C 6ft (1.8m) | D 10ft (3m) | | | | | | | | | | | | | | | |
| <table border="1" style="margin: auto; border-collapse: collapse;"> <thead> <tr> <th>Color</th> <th>3 Wire Voltage</th> <th>4-20mA</th> </tr> </thead> <tbody> <tr> <td>Green</td> <td>N/C</td> <td>N/C</td> </tr> <tr> <td>Black</td> <td>GND</td> <td>-V</td> </tr> <tr> <td>Red</td> <td>+V</td> <td>+V</td> </tr> <tr> <td>White</td> <td>S</td> <td>N/C</td> </tr> </tbody> </table> | | Color | 3 Wire Voltage | 4-20mA | Green | N/C | N/C | Black | GND | -V | Red | +V | +V | White | S | N/C |  <p>Individual Wires are 22 AWG</p> | |
| Color | 3 Wire Voltage | 4-20mA | | | | | | | | | | | | | | | | |
| Green | N/C | N/C | | | | | | | | | | | | | | | | |
| Black | GND | -V | | | | | | | | | | | | | | | | |
| Red | +V | +V | | | | | | | | | | | | | | | | |
| White | S | N/C | | | | | | | | | | | | | | | | |

| Electrical Connectors Option Codes (Cont'd) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|---|---|----|-----|---|-----|-----|---|-----|----|----|-----|-----|--|-----|----------------|--------|---|-----|----|---|-----|----|---|---|-----|---|-----|----------------|--|---|-----|----------------|--------|-----|----|----|---|-----|----|-----|-----|--|-----|----------------|--------|---|-----|-----|---|-----|-----|---|---|-----|
| E DIN 43650C 8.0mm (Mini-DIN) | F Packard Metripack, 150 | I DIN 43650A 18.0mm (Big- DIN) | K Deutsch, DT04-3P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  |  |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 1 | S | N/C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | GND | -V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | +V | +V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WP | N/C | N/C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pin | 3 Wire Voltage | 4-20mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | GND | -V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | +V | +V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | S | N/C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pin | 3 Wire Voltage | 4-20mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | +V | +V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | GND | -V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | S | N/C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WP | N/C | N/C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pin | 3 Wire Voltage | 4-20mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | +V | +V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | GND | -V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | S | N/C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Y M12X1 | Z Deutsch, DT04-4P | R 6 Pin Bendix | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Pin | 3 Wire Voltage | 4-20mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | +V | +V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | N/C | N/C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | GND | -V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | S | N/C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pin | 3 Wire Voltage | 4-20mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | +V | +V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | GND | -V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | S | N/C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | N/C | N/C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pin | 3 Wire Voltage | 4-20mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | +V | +V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | S | -V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | N/C | N/C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D | GND | N/C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E | N/C | N/C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F | N/C | N/C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Pressure Port Option Codes | | | |
|---|---|---|---|
| A 1/4 NPT Male | B 1/8 NPT Male | C 1/4 BSPP Male | D G1/4 Male |
|  <p>'PC' = 1.069</p> |  <p>'PC' = .975</p> |  <p>'PC' = .987</p> |  <p>'PC' = 1.027</p> |
| E 9/16 – 18 UNF Male | F 7/16 – 20 UNF Male | G M14X1.5 Male | I 1/4 NPT Female |
|  <p>'PC' = 1.017</p> |  <p>'PC' = .978</p> |  <p>'PC' = 1.027</p> |  <p>'PC' = .669</p> |
| P 1/2 NPT Male | T G1/2 Male | U 1/8 BSPP Male | |
|  <p>'PC' = 1.172</p> |  <p>'PC' = 1.020</p> |  <p>'PC' = .835</p> | |

| Legend | |
|--------|--------------------|
| ✓ | Standard Available |
| X | Not Available |

Available Process Connection, Material Configurations & Pressure Codes

17-4PH PSI

| Pressure Range | Pressure Range Code | PSI Unit | Process Connection Code | | | | | | | | | | |
|----------------|---------------------|----------|-------------------------|---|---|---|---|---|---|---|---|---|---|
| | | | A | B | C | D | E | F | G | I | P | T | U |
| -14.7 - 25 | V0025 | P | ✓ | X | ✓ | X | X | X | X | ✓ | ✓ | ✓ | X |
| -14.7 - 50 | V0050 | P | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| -14.7 - 100 | V0100 | P | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| -14.7 - 150 | V0150 | P | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| -14.7 - 200 | V0200 | P | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| -14.7 - 250 | V0250 | P | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| -14.7 - 500 | V0500 | P | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 0 - 25 | 00025 | P | ✓ | X | ✓ | X | X | X | X | ✓ | ✓ | ✓ | X |
| 0 - 50 | 00050 | P | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 0 - 100 | 00100 | P | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 0 - 150 | 00150 | P | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 0 - 200 | 00200 | P | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 0 - 250 | 00250 | P | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 0 - 500 | 00500 | P | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 0 - 1,000 | 01000 | P | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 0 - 2,500 | 02500 | P | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | X | ✓ |
| 0 - 5,000 | 05000 | P | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | X | ✓ |
| 0 - 7,500 | 07500 | P | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | X | ✓ |
| 0 - 10,000 | 10000 | P | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | X | ✓ |

17-4PH Bar

| Pressure Range | Pressure Range Code | BAR Unit | Process Connection Code | | | | | | | | | | |
|----------------|---------------------|----------|-------------------------|---|---|---|---|---|---|---|---|---|---|
| | | | A | B | C | D | E | F | G | I | P | T | U |
| -1 to 2 | V0002 | B | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| -1 to 5 | V0005 | B | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| -1 to 7 | V0007 | B | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| -1 to 10 | V0010 | B | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| -1 to 20 | V0020 | B | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 0-2 | 00002 | B | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 0-5 | 00005 | B | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 0-7 | 00007 | B | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 0-10 | 00010 | B | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 0-20 | 00020 | B | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 0-35 | 00035 | B | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 0-50 | 00050 | B | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 0-100 | 00100 | B | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | X | ✓ |
| 0-250 | 00250 | B | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | X | ✓ |
| 0-350 | 00350 | B | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | X | ✓ |
| 0-500 | 00500 | B | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | X | ✓ |
| 0-700 | 00700 | B | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | X | ✓ |

INDUSTRIAL OEM

AST4000 Pressure Transmitter

316L PSI

| Pressure Range | Pressure Range Code | PSI Unit | Process Connection Code | | | | | | | | | | |
|----------------|---------------------|----------|-------------------------|---|---|---|---|---|---|---|---|---|---|
| | | | A | B | C | D | E | F | G | I | P | T | U |
| -14.7 - 25 | V0025 | P | ✓ | X | ✓ | X | ✓ | X | X | ✓ | ✓ | X | X |
| -14.7 - 50 | V0050 | P | ✓ | X | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | X | X |
| -14.7 - 100 | V0100 | P | ✓ | X | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | X | X |
| -14.7 - 150 | V0150 | P | ✓ | X | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | X | X |
| -14.7 - 200 | V0200 | P | ✓ | X | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | X | X |
| -14.7 - 250 | V0250 | P | ✓ | X | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | X | X |
| -14.7 - 500 | V0500 | P | ✓ | X | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | X | X |
| 0 - 25 | 00025 | P | ✓ | X | ✓ | X | ✓ | X | X | ✓ | ✓ | X | X |
| 0 - 50 | 00050 | P | ✓ | X | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | X | X |
| 0 - 100 | 00100 | P | ✓ | X | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | X | X |
| 0 - 150 | 00150 | P | ✓ | X | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | X | X |
| 0 - 200 | 00200 | P | ✓ | X | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | X | X |
| 0 - 250 | 00250 | P | ✓ | X | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | X | X |
| 0 - 500 | 00500 | P | ✓ | X | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | X | X |
| 0 - 1,000 | 01000 | P | ✓ | X | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | X | X |
| 0 - 2,500 | 02500 | P | ✓ | X | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | X | X |
| 0 - 5,000 | 05000 | P | ✓ | X | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | X | X |
| 0 - 7,500 | 07500 | P | ✓ | X | ✓ | X | ✓ | ✓ | X | ✓ | ✓ | X | X |
| 0 - 10,000 | 10000 | P | ✓ | X | ✓ | X | ✓ | ✓ | X | ✓ | ✓ | X | X |

316L Bar

| Pressure Range | Pressure Range Code | BAR Unit | Process Connection Code | | | | | | | | | | |
|----------------|---------------------|----------|-------------------------|---|---|---|---|---|---|---|---|---|---|
| | | | A | B | C | D | E | F | G | I | P | T | U |
| -1 to 2 | V0002 | B | ✓ | X | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | X | X |
| -1 to 5 | V0005 | B | ✓ | X | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | X | X |
| -1 to 7 | V0007 | B | ✓ | X | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | X | X |
| -1 to 10 | V0010 | B | ✓ | X | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | X | X |
| -1 to 20 | V0020 | B | ✓ | X | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | X | X |
| 0-2 | 00002 | B | ✓ | X | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | X | X |
| 0-5 | 00005 | B | ✓ | X | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | X | X |
| 0-7 | 00007 | B | ✓ | X | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | X | X |
| 0-10 | 00010 | B | ✓ | X | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | X | X |
| 0-20 | 00020 | B | ✓ | X | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | X | X |
| 0-35 | 00035 | B | ✓ | X | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | X | X |
| 0-50 | 00050 | B | ✓ | X | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | X | X |
| 0-100 | 00100 | B | ✓ | X | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | X | X |
| 0-250 | 00250 | B | ✓ | X | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | X | X |
| 0-350 | 00350 | B | ✓ | X | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | X | X |
| 0-500 | 00500 | B | ✓ | X | ✓ | X | X | ✓ | X | ✓ | ✓ | X | X |
| 0-700 | 00700 | B | ✓ | X | ✓ | X | X | ✓ | X | ✓ | ✓ | X | X |

INDUSTRIAL OEM

AST4000 Pressure Transmitter

Inconel PSI

| Pressure Range | Pressure Range Code | PSI Unit | Process Connection Code | | | | | | | | | | | |
|----------------|---------------------|----------|-------------------------|---|---|---|---|---|---|---|---|---|---|---|
| | | | A | B | C | D | E | F | G | I | P | T | U | |
| -14.7 - 25 | V0025 | P | ✓ | X | X | X | X | X | X | X | X | ✓ | X | X |
| -14.7 - 50 | V0050 | P | ✓ | X | X | X | X | X | X | X | X | ✓ | X | X |
| -14.7 - 100 | V0100 | P | ✓ | X | X | X | X | X | X | X | X | ✓ | X | X |
| -14.7 - 150 | V0150 | P | ✓ | X | X | X | X | X | X | X | X | ✓ | X | X |
| -14.7 - 200 | V0200 | P | ✓ | X | X | X | X | X | X | X | X | ✓ | X | X |
| -14.7 - 250 | V0250 | P | ✓ | X | X | X | X | X | X | X | X | ✓ | X | X |
| -14.7 - 500 | V0500 | P | ✓ | X | X | X | X | X | X | X | X | ✓ | X | X |
| 0 - 25 | 00025 | P | ✓ | X | X | X | X | X | X | X | X | ✓ | X | X |
| 0 - 50 | 00050 | P | ✓ | X | X | X | X | X | X | X | X | ✓ | X | X |
| 0 - 100 | 00100 | P | ✓ | X | X | X | X | X | X | X | X | ✓ | X | X |
| 0 - 150 | 00150 | P | ✓ | X | X | X | X | X | X | X | X | ✓ | X | X |
| 0 - 200 | 00200 | P | ✓ | X | X | X | X | X | X | X | X | ✓ | X | X |
| 0 - 250 | 00250 | P | ✓ | X | X | X | X | X | X | X | X | ✓ | X | X |
| 0 - 500 | 00500 | P | ✓ | X | X | X | X | X | X | X | X | ✓ | X | X |
| 0 - 1,000 | 01000 | P | ✓ | X | X | X | X | X | X | X | X | ✓ | X | X |
| 0 - 2,500 | 02500 | P | ✓ | X | X | X | X | X | X | X | X | ✓ | X | X |
| 0 - 5,000 | 05000 | P | ✓ | X | X | X | X | X | X | X | X | ✓ | X | X |
| 0 - 7,500 | 07500 | P | ✓ | X | X | X | X | X | X | X | X | ✓ | X | X |
| 0 - 10,000 | 10000 | P | ✓ | X | X | X | X | X | X | X | X | ✓ | X | X |

Inconel BAR

| Pressure Range | Pressure Range Code | BAR Unit | Process Connection Code | | | | | | | | | | | |
|----------------|---------------------|----------|-------------------------|---|---|---|---|---|---|---|---|---|---|---|
| | | | A | B | C | D | E | F | G | I | P | T | U | |
| -1 to 2 | V0002 | B | ✓ | X | X | X | X | X | X | X | X | ✓ | X | X |
| -1 to 5 | V0005 | B | ✓ | X | X | X | X | X | X | X | X | ✓ | X | X |
| -1 to 7 | V0007 | B | ✓ | X | X | X | X | X | X | X | X | ✓ | X | X |
| -1 to 10 | V0010 | B | ✓ | X | X | X | X | X | X | X | X | ✓ | X | X |
| -1 to 20 | V0020 | B | ✓ | X | X | X | X | X | X | X | X | ✓ | X | X |
| 0 - 2 | 00002 | B | ✓ | X | X | X | X | X | X | X | X | ✓ | X | X |
| 0 - 5 | 00005 | B | ✓ | X | X | X | X | X | X | X | X | ✓ | X | X |
| 0 - 7 | 00007 | B | ✓ | X | X | X | X | X | X | X | X | ✓ | X | X |
| 0 - 10 | 00010 | B | ✓ | X | X | X | X | X | X | X | X | ✓ | X | X |
| 0 - 20 | 00020 | B | ✓ | X | X | X | X | X | X | X | X | ✓ | X | X |
| 0 - 35 | 00035 | B | ✓ | X | X | X | X | X | X | X | X | ✓ | X | X |
| 0 - 50 | 00050 | B | ✓ | X | X | X | X | X | X | X | X | ✓ | X | X |
| 0 - 100 | 00100 | B | ✓ | X | X | X | X | X | X | X | X | ✓ | X | X |
| 0 - 250 | 00250 | B | ✓ | X | X | X | X | X | X | X | X | ✓ | X | X |
| 0 - 350 | 00350 | B | ✓ | X | X | X | X | X | X | X | X | ✓ | X | X |
| 0 - 500 | 00500 | B | ✓ | X | X | X | X | X | X | X | X | ✓ | X | X |
| 0 - 700 | 00700 | B | ✓ | X | X | X | X | X | X | X | X | ✓ | X | X |
| -1 to 2 | V0002 | B | ✓ | X | X | X | X | X | X | X | X | ✓ | X | X |
| -1 to 5 | V0005 | B | ✓ | X | X | X | X | X | X | X | X | ✓ | X | X |

*See Ordering Information for list of options.

INDUSTRIAL OEM

AST4000 Pressure Transmitter

Ordering Information

AST4000

A

00500

P

4

E

0

000

Process Connection

| | |
|-----------------------|--------------------|
| A= 1/4" NPT Male | G= M14x1.5 Male |
| B= 1/8" NPT Male | I= 1/4" NPT Female |
| C= 1/4" BSPP Male | P= 1/2" NPT Male |
| D= G1/4 Male | S= 1/2" NPT Female |
| E= 9/16 - 18 UNF Male | T = G1/2 Male |
| F= 7/16 - 20 UNF Male | U= 1/8 BSPP Male |

Pressure Range

Insert Pressure Range Code (see table for availability)

Pressure Unit

B=Bar P=PSI

Output

1= 0.5-4.5V ratiometric
3= 1-5V
4= 4-20mA (2 wire loop powered)
6= 1-6V

Electrical

A= 2 ft. (0.6m)
B= 4 ft. (1.2m)
C= 6 ft. (1.8m)
D= 10 ft. (3.0m)
E= Mini DIN 43650
F= Packard Metripack 150 3-Pin
I= DIN 43650A
K= Deutsch DT04-3 Pin
R= 6- Pin Bendix
Y= M12x1 Eurofast
Z= Deutsch DT04-4 Pin

Wetted Material

0= 17-4PH 1= 316L 2= Inconel 718

Options

000= No Options

NORTH AMERICA

American Sensor Technologies, Inc. (AST),
a TE Connectivity Company
Tel: 800-522-6752
Email: customercare.molive@te.com

ASIA

Hong Kong Sensor Technologies (HKST),
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