The AST4400 series intrinsically safe pressure transducer is the solution for pressure measurement in Intrinsically Safe areas.

The AST4400 series intrinsically safe pressure transducer is stainless steel and has a variety of options for pressure measurement in Intrinsically Safe areas.

Sensor Type: Intrinsically Safe Pressure Transducer
Pressure Range: 0 - 25 to 20000 psi
Output/Span: 0.5 - 4.5 V, 1 - 5 V, 1 - 6 V, 4 - 20 mA
Type: Compound, Gage, Sealed
Accuracy: ±0.25% FSO

The AST4400 series intrinsically safe pressure transducer, with its rugged construction and best price-to-performance ratio in the industry, is the solution for pressure measurement in Intrinsically Safe areas. It is made of durable stainless steel and includes a wide variety of options.

Benefits
- Class I Div 1 Intrinsically Safe Groups C, D when installed with an approved barrier
- ATEX / IECEx: Ex ia IIB T4 Ga (Ta = -40°C to +80°C)
- High Strength Stainless Steel Construction
- No Oil, Welds or Internal O-rings
- Wide Operating Temperature
- Pressures up to 20,000 PSI
- Low Static and Thermal Errors
Intrinsically Safe Pressure Transducer

TE Model #: AST4400
TE Internal #: CAT-PTT004S

- Compatible with Wide Variety of Liquids and Gases
- Unparalleled Price and Performance

Applications
- Industrial OEM Equipment
- HVAC/R Equipment
- Water Management
- Control Panels
- Pneumatics
- Hydraulic Systems
- Data Loggers

Resources

Compound Pressure Transducers
Learn how to measure positive and negative pressure with pressure transducers.

Pressure Transducer Materials
Learn the differences between 17-4PH and 316L stainless steel materials as they relate to pressure transducers.

Voltage Output Pressure Transducer Comparison
Learn about various voltage output signals and how they are suitable for pressure transducers.

Features

<table>
<thead>
<tr>
<th>Product Type Features</th>
<th>Intrinsically Safe Pressure Transducer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor Type</td>
<td>Compound, Gage, Sealed</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Configuration Features</th>
<th>6 Pin Bendix PT06A, Cable 10 ft, Cable 2 ft, Cable 4 ft, Cable 6 ft, DIN 43650A, Deutsch DT04-3P, Deutsch DT04-4P, M12x1, Mini-DIN 43650C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Port/Fitting</td>
<td>1/2 MNPT, 1/4 FNPT, 1/4 MBSP, 1/4 MNPT, 1/8 MNPT, 7/16-20 UNF Male, 9/16-18 UNF Male 37°, F250C Female, G1/4 3852 Male</td>
</tr>
</tbody>
</table>
### Intrinsically Safe Pressure Transducer

**TE Model #**: AST4400  
**TE Internal #:**: CAT-PTT0045

#### Electrical Characteristics

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply Voltage (V)</td>
<td>10 - 28, 4.75 - 5.25</td>
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</table>

#### Body Features

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Port Material</td>
<td>17-4PH, 316L, Alloy 718, Alloy C276</td>
</tr>
</tbody>
</table>

#### Usage Conditions

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature Range (°C)</td>
<td>-40 - 80</td>
</tr>
<tr>
<td>Operating Temperature Range (°F)</td>
<td>-40 - 176</td>
</tr>
</tbody>
</table>

#### Operation/Application

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overpressure</td>
<td>2X, Min</td>
</tr>
<tr>
<td>Pressure Range</td>
<td>0 - 25 to 20000 psi</td>
</tr>
<tr>
<td>Output/Span</td>
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#### Other

<table>
<thead>
<tr>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASME B31.3 (CRN), Conduit With Cable, Increased Proof Pressure, Snubber</td>
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</tbody>
</table>

### Related Materials

**Data Sheet**  
**AST4400 Datasheet**  
**English**

**Agency Approval Document**  
**DNVGL-CERTIFICATE-TAA0000073**  
**English**

**Agency Approval Document**  
**CSA_Certificate-of-Compliance_70179036**  
**English**

**Agency Approval Document**  
**Sira Cert 14ATEX2110X Issue 3**  
**English**

**Agency Approval Document**  
**IECEEx CSA 14.0037X Issue 1**  
**English**

**Specification Or Standard**  
**Operating Instructions Intrinsically Safe**  
**English**

**Specification Or Standard**  
**Installation/Wiring Document for AST Pressure Sensors**  
**English**
Agency Approval Document
American Bureau of Shipping (ABS) Product Type Approval-Hazardous Location
English

Agency Approval Document
CSA-SIRA Variation Report for ATEX and IECEx
English

Also in the Series | AST4400
Pressure Transducers(1)