E2S Intrinsically Safe Pressure Transducer

**FEATURES**
- FM, ATEX, IECEx Intrinsically-Safe approvals, FM Non-Incendive approval
- Ranges vac through 20,000 psi
- IP66/67 Ingress rating
- Wide selection of electrical & process connections available
- Customizable configurations
- External magnetic offset & span adjustment
- Barometric pressure ranges available (standard & custom ranges)

**TYPICAL USES**
- Oil field equipment
- Upstream oil & gas production
- Natural gas compression
- Alternative energy projects
- Engine monitoring
- Process & pneumatic sensing
- Hydrogen applications

**PERFORMANCE SPECIFICATIONS**
- Reference Temperature: 70 °F ±3.6 °F, (21 °C ±2 °C)
- Static Accuracy: ±0.25% of span, ±0.50% of span, ±1.0% of span, (0-1.5# Range only available in ±0.5% and 1.0% accuracy) Terminal Point Method includes: hysteresis, linearity, repeatability, offset and span
- Stability: ±0.25% year at reference conditions

**ENVIRONMENTAL SPECIFICATIONS**
- Thermal Coefficients:
  - Offset: ±0.005% / °F from -40 °F to 257 °F
  - (±0.009% / °C from -40 °C to 125 °C)
  - Span: ±0.005% / °F from -40 °F to 257 °F
  - (±0.009% / °C from -40 °C to 125 °C)
- Temperature Limits:
  - Storage: -58 °F to 257 °F (-50 °C to 125 °C)
  - Operating: -40 °F to 176 °F (-40 °C to 80 °C)
- Humidity: 0-100% (non-condensing)

**FUNCTIONAL SPECIFICATIONS**
- Response Time (Output): 4 ms
- Gauge/Compound Pressure Ranges: VAC to 20,000 psig
- Shock: 80 g, 6 ms, Haversine
- Vibration: Random: 10 g RMS 20-2000 Hz
- Absolute Pressure Ranges: 0 to 500 psia
- Proof Pressure: 1.2X - 2X (See Table 1 on page 2)
- Burst Pressure: 3X - 8X (See Table 1 on page 2)

**KEY BENEFITS**
- Highly configurable
- Easy calibration of offset and span

**ELECTRICAL SPECIFICATIONS**
- Circuit Protection: Reverse polarity protected

**INTRINSICALLY SAFE INSTALLATIONS**
- Supply Voltage: Output
  - 9-28 Vdc: 0-5 Vdc, 1-5 Vdc, 1-6 Vdc, 0.1-5 Vdc, 0.5-4.5 Vdc
  - 14-28 Vdc: 0-10 Vdc, 1-11 Vdc, 0.1-10 Vdc
  - 9-30 Vdc: 4-20 mA, 20-4 mA (2-wire)

**NON-INCENDIVE INSTALLATIONS**
- Supply Voltage: Output
  - 9-28 Vdc: 0-5 Vdc, 1-5 Vdc, 1-6 Vdc, 0.1-5 Vdc, 0.5-4.5 Vdc
  - 14-28 Vdc: 0-10 Vdc, 1-11 Vdc, 0.1-10 Vdc
  - 9-30 Vdc: 4-20 mA, 20-4 mA (2-wire)

- Adjustability: ±5% of span non-interactive offset & span
- Supply Current: <8 mA (Vout)
- Current Source/Sink (for Voltage Output): 1 mA (source)/ 0.1 mA (sink) MAX.
- Withstand/Breakdown: 100 Vdc/Vac, optional 500 Vdc/Vac
TABLE 1: PROOF & BURST PRESSURE MULTIPLIERS

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Hazardous Area Certifications

Intrinsically Safe Installations –
- FM: Class I, Division 1, Group A, B, C, D T4 -40 °C < Ta < 80 °C
- ATEX/IECEx:
  - Class I, Zone 0, AEx ia IIC T4 Ga -40 °C < Ta < 80 °C
  - Class I, Zone 2, AEx ic IIC T4 Gc -40 °C < Ta < 80 °C

Non-Incendive Installations –
- FM: Class I, Division 2, Group A, B, C, D T4 -40 °C < Ta < 80 °C

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## E2S Intrinsically Safe Pressure Transducer

**ORDERING CODE**

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<td>A</td>
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<tr>
<td>B</td>
<td>316L Stainless steel</td>
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<td>C</td>
<td>316L Stainless steel (liquid isolated)</td>
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**Accessory**

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# E2S Intrinsically Safe Pressure Transducer

## TABLE 3 - PRESSURE CONNECTION DIMENSIONS

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<th>Connection Type</th>
<th>Code</th>
<th>MAWP (psi)</th>
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<td>M01</td>
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<td><strong>4/5 NPT Male</strong></td>
<td>M02</td>
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<td><strong>1/2 NPT Male</strong></td>
<td>M04</td>
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<tr>
<td><strong>1/8 UNJF-3A 37° Flare</strong></td>
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<td><strong>7/16-20 UNF-2B Female Swivel Nut</strong></td>
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<td><strong>1/4-27 NPT Female</strong></td>
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<td><strong>7/16-20 UNF-2B Female Swivel Nut</strong></td>
<td>FRW</td>
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<td><strong>1/8-18 Female Swivel Nut</strong></td>
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<td><strong>1/8-14 Male Swivel Nut</strong></td>
<td>MV2</td>
<td>5,100</td>
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### Diagrams

1. **1/8 NPT Male**
2. **4/5 NPT Male**
3. **1/2 NPT Male**
4. **1/8 UNJF-3A 37° Flare**
5. **7/16-20 UNF-2B Female Swivel Nut**
6. **1/4-27 NPT Female**
7. **7/16-20 UNF-2B Female Swivel Nut**
8. **1/8-18 Female Swivel Nut**
9. **1/8-14 Male Swivel Nut**
## E2S Intrinsically Safe Pressure Transducer

### TABLE 4 - ELECTRICAL CONNECTION DIMENSIONS

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<td>-40 °F to 185 °F (-40 °C to 80 °C)</td>
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<td>DA – IP66</td>
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### Notes
- * Indicates Vented Cable
- All specifications are subject to change without notice. All sales subject to standard terms and conditions.
### TABLE 5 - PRESSURE RANGES

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### DIMENSIONS

For reference only, consult Ashcroft for specific dimensional drawings.
E2S Intrinsically Safe Pressure Transducer

**LOOP SUPPLY VOLTAGE CHART**

FOR TRANSMITTERS WITH 4-20mA OUTPUT SIGNAL, THE MINIMUM VOLTAGE AT THE TERMINAL IS 9VDC

![Loop Supply Voltage vs. Loop Resistance Chart](chart.png)

- **Loop Supply Voltage** vs. **Loop Resistance**
- **Operating Region**
- **VMIN** = 9V + (0.022*A x RLOOP) (*includes a 10% safety factor)
- **RLOOP** = **RSENSE** + **RWIRING**
  - **RLOOP** = Loop Resistance (Ohms)
  - **RSENSE** = Sense Resistance (Ohms)
  - **RWIRING** = Wire Resistance (Ohms)

**NOTE:** See power supply requirement chart for maximum supply voltage limits

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**TruAccuracy**

**What Does It Mean?**

Ashcroft’s TruAccuracy™ specification is exclusively based on terminal point methodology instead of statistically derived schemes like ‘best fit straight line’.

TruAccuracy™ means the Ashcroft E2S has ±0.25% accuracy out of the box. Zero and span setting errors are already included in the ±0.25% accuracy spec.

The E2S is ready to be installed with no additional calibration adjustments required.

A unit from another manufacturer advertised as ±0.25% best fit straight line may actually be a ±1.25% to ±2.25% device. Using best fit straight line method, the accuracy spec does not include zero and span setting errors, which can be as much as ±1.00% each.

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