**Watson Smith 421 Failsafe Series**

Compact current to pressure (I/P) electronic converter

\( \frac{1}{4} \) NPT

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**Technical data**

**Medium:** Compressed air, filtered to 5 µm, oil-free, dry

**Output signal:** 0, 2 to 1 bar; minimum outlet pressure less than 15 mbar

**Flow:** Up to 150 Nl/min

**Air consumption:** 0,2 l/min typical low pressure

**Operating pressure:** 1, 5 to 3,5 bar or at least 0,7 bar above maximum output pressure

**Mounting:** Optional. A rail clip is provided with each instrument for TS32 EN50035)/TS35 (EN50022) rail.

**Ambient temperature:** -10°C to +60°C

Consult our Technical Service for use below +2°C

**Response time:** 5 seconds (10 to 90% or 90 to 10% of output pressure into a 5 litre load)

**Total error:** ±0,5% of span (typical, independent error includes the combined effect of non-linearity, hysteresis, deadzone and repeatability

**Temperature effect:** Typically less than 1% span for span and zero between 0°C and 50°C

**Supply sensitivity:** Maximum of ±2% of outlet pressure at extremes of supply range

**Degree of protection:** IP40

**Vibration immunity:** The unit possesses a high degree of immunity

**Electromagnetic compatibility:** Compliant and CE marked in accordance with the EC E.M.C. directive. Tested to standards: BS EN50082-2: 1995, BS EN50081-2: 1994

**Weight:** 0,6 kg

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**Materials**

**Pressure converter:** Anodised natural aluminium

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**Electrical information**

<table>
<thead>
<tr>
<th>Electrical signal</th>
<th>4 to 20 mA (two wire); load presents 10 volts (±0,5 V) constant voltage drop to the current source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Failure mode</td>
<td>Signal falls to below 15 mbar when input signal fails</td>
</tr>
<tr>
<td>Connections</td>
<td>Two part quick release terminal block with capacity up to 2,5 mm² cable</td>
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</table>

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¼ NPT

Bracket mounted

1. Mounting bracket
2. Mounting rail
3. 1/8”NPT pneumatic fittings
4. Pressure inlet port
5. Pressure outlet port

Characteristic curves

Span/Zero adjustments

Max. output pressure (bar)

Min. output pressure (bar)

Input signal

20% of output range