ATEX I.S. I/P Converter
Advanced electronic control
Fail freeze operation (output pressure retained on power failure)
Minimum vibration effects
High accuracy
Captured bleed as standard

Technical features
Medium: Oil free, dry air, filtered to 5 μm
Output pressure: 0,2 ... 1 bar
Supply pressure: at least 0,7 bar above maximum required output pressure
Flow capacity: Up to 250 Nl/min
Air consumption: ≤ 0,4 Nl/min
Linearity: ≤ 0,5 % of span
Hysteresis: Typically ≤ 0,5% of span
Vibration effect: ≤ 1 % of span for vibration level up to 4 mm, 5 ... 15 Hz, 3g 15 ... 500 Hz in any orientation.

Response time:
< 6 sec 10 ... 90% into a 0,5 l volume
< 6 sec 90 ... 10% into a 0,5 l volume

Temperature sensitivity:
Typically ≤ 0,1 % span/°C between -10°C and +60°C

Supply sensitivity:
Typically ≤ 0,5% of span for full supply pressure range

Port sizes:
Main ports: 1/4 NPT/G1/4 female
Gauge ports: 1/4 NPT/G1/4 female
Captured bleed: 1/8 NPT female

EMC Compatibility:
Compliant and CE marked in accordance with the EC Directive 2004/108/EC tested to BS EN 61000-6-2:2005
BS EN 61000-6-4:2007+ A11:2011
Ambient/Media temperature:
-10 ... +70°C
Air supply must be dry enough to avoid ice formation at temperatures below +2°C.

Technical data

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Port size</th>
<th>Output pressure</th>
<th>Weight (kg)</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>G1/4</td>
<td>3 ... 15 psi</td>
<td>0,98</td>
<td>AC301PJ1</td>
<td></td>
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For other port sizes or options please contact your sales representative.

Electrical parameters

Input Signal: 4 ... 20 mA (two wire). Terminal voltage typically < 11 V at 20 mA
Failure Mode: Output pressure held at previous value when input signal fails; drift rate ≤ 0,2% of span in 5 minutes
Overload protection: 38 mA max. overload current. Unit unaffected by reverse current
Connections: 30mm square connector provided (DIN 43650, form A) mountable in 4 directions
Span/Zero: Independently adjustable up to 15 % output range

Material:
Body: zinc diecasting passivated and epoxy painted
Cover: Glass reinforced PA
Diaphragms: NBR

Options to special order:
• Alternative pressure units
• Conduit entry (M20 / ½" NPT)
• 50 mm pipe mounting bracket

Option selector

<table>
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<tr>
<th>Pressure range</th>
<th>Substitute</th>
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<td>3 ... 15 psi</td>
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<td>K</td>
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Special notes

<table>
<thead>
<tr>
<th>Standard exhaust</th>
<th>Substitute</th>
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<tr>
<td>Capture bleed</td>
<td>1</td>
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<th>Junction box &amp; C/B</th>
<th>Substitute</th>
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<tbody>
<tr>
<td></td>
<td>2</td>
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</table>
dimensions

Warning

Do not use these products where values can exceed those listed under »Technical features/data«.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems, or other applications not within published specifications, consult NORGREN.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.