- **Port size: 1/4” (ISO G/NPT)**
- **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

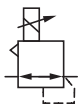
**Medium:**
Oil free, dry air, filtered to 5 µm
**Output pressure:**
0,2 ... 1 bar (2,9 ... 14 psi)
**Supply pressure:**
at least 0,7 bar (10 psi) above maximum required output pressure maximum 4 bar (58 psi) gauge
**Flow capacity:**
Up to 250 Nl/min
**Air consumption:**
√ 0,4 Nl/min
**Linearity:**
≤ 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° (+14 ... +140°F)
**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
**I.P. Rating:**
IP65 with piped exhaust

**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 (+14 ... 158°F)
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).
**Maintenance:**
No user serviable parts
**Mounting position:**
Operation in any orientation is possible; integral surface mounting bracket provided.
Orientation effect <0.2%

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

## Technical data

| Symbol | Port size | Output pressure | Weight (kg) | Model |
|---|---|---|---|---|
|  | G1/4 | 3 ... 15 psi | 0,98 | AC301PJ1 |
| | 1/4 NPT | 3 ... 15 psi | 0,98 | AC301PK1 |
| | G1/4 | 0,2 ... 1 bar | 0,98 | AC301BJ1 |
| | 1/4 NPT | 0,2 ... 1 bar | 0,98 | AC301BK1 |

For other port sizes or options please contact your sales representative.

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

## 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** | 30 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 |

## Option selector

**AC301★★★**

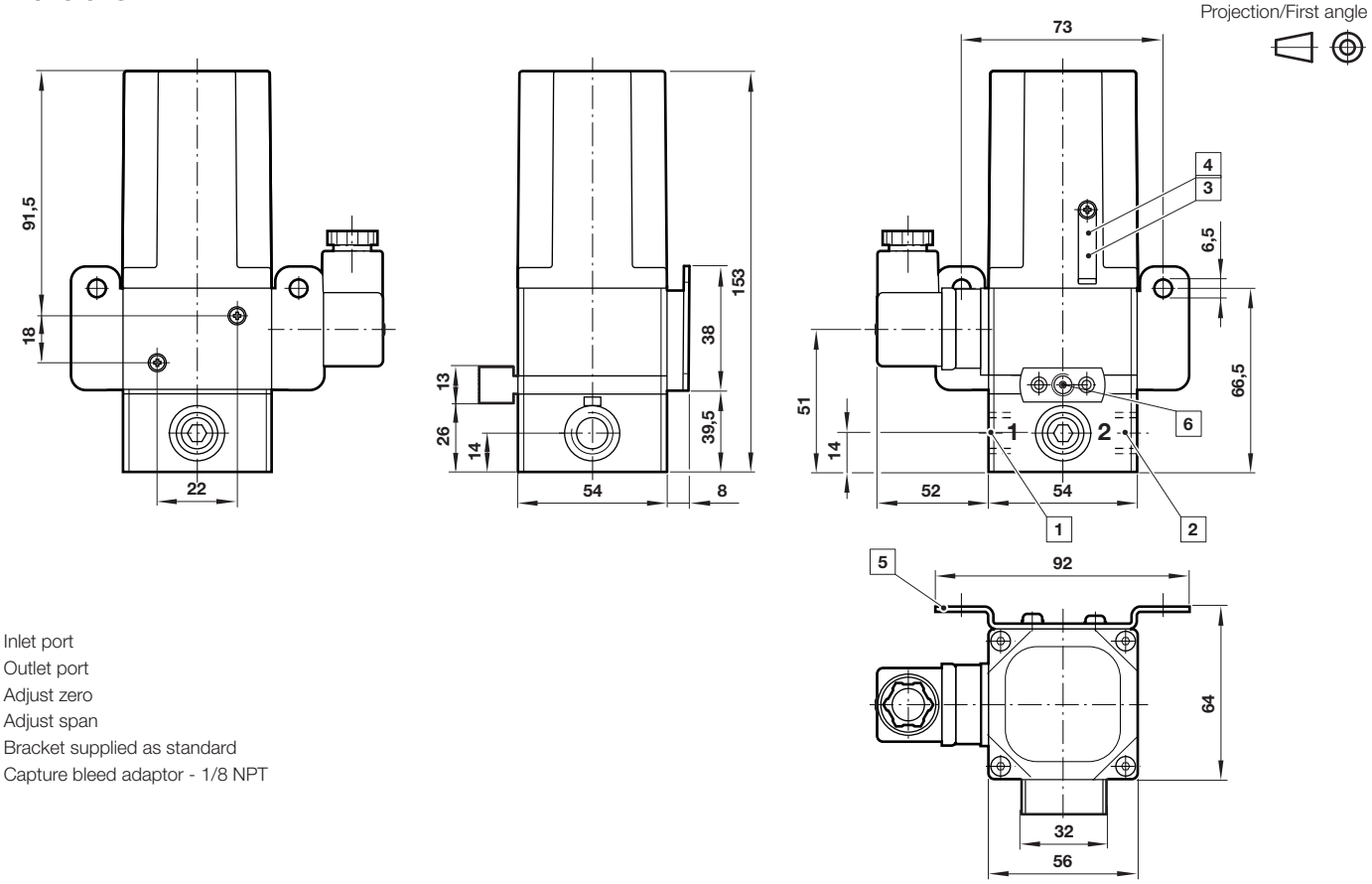
| Pressure range | Substitute |
|---|---|
| 3 ... 15 psi | **P** |
| 0,2 ... 1 bar | **B** |

| Port sizes | Substitute |
|---|---|
| G 1/4 | **J** |
| 1/4 NPT | **K** |

| Special notes | Substitute |
|---|---|
| Standard exhaust | **0** |
| Capture bleed | **1** |
| Junction box & C/B | **2** |

## Dimensions

Dimensions in mm
Projection/First angle




1 Inlet port
2 Outlet port
3 Adjust zero
4 Adjust span
5 Bracket supplied as standard
6 Capture bleed adaptor - 1/8 NPT

## Certification

| Certification Agency | ATEX Intrinsically safe | IECEx Intrinsically safe |
|---|---|---|
| **Sira** | CE Ex II | |
| | Sira 03ATEX2007X | IECEx SIR 11.0095X |
| | Ex ia IIC T4 Ga<br>(Ta = -40 ... +80°C) | Ex ia IIC T4 Ga<br>(Ta = -40 ... +80°C) |
| | Ui = 28 V d.c.<br>Ii = 110 mA<br>Pi = 0,8 W<br>Ci = 5 nF<br>Li = 0,24 mH | Ui = 28 V d.c.<br>Ii = 110 mA<br>Pi = 0,8 W<br>Ci = 5 nF<br>Li = 0,24 mH |
| | 1G | |

## Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures 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 IMI 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.