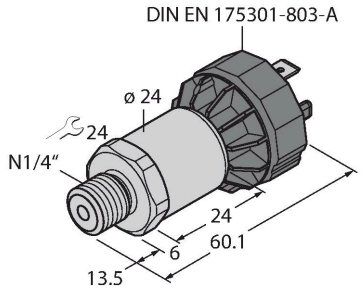
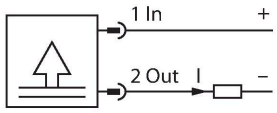
# PT15PSIG-1003-I2-DA91
# Pressure Transmitter – With Current Output (2-Wire)




## Features

- Ceramic measuring cell
- Compact and robust design
- Excellent EMC properties
- Pressure range 0…15 psi relative
- 7…33 VDC
- Analog output 4…20 mA
- Process connection 1/4"-18 NPT male thread
- Plug-in device, DIN EN 175301-803-A

## Wiring diagram



## Technical data

| | |
|---|---|
| Type | PT15PSIG-1003-I2-DA91 |
| ID | 6837412 |
| Pressure type | Relative pressure |
| Pressure range | 0…1.03 bar |
| | 0…15 psi |
| | 0…0.1 MPa |
| Admissible overpressure | ≤ 3 bar |
| Burst pressure | ≥ 3 bar |
| Response time | < 2 ms, typ. 1 ms |
| Long-term stability | 0.25 % FS, according to IEC EN 60770-1 |
| **Power supply** | |
| Operating voltage $U_B$ | 7…33 VDC |
| Current consumption | ≤ 23 mA |
| Short-circuit/reverse polarity protection | yes / yes |
| Protection class | IP65 |
| Insulation class | III |
| Insulation voltage | 750 VDC |
| **Outputs** | |
| Output 1 | Analog output |
| Output function | Analog output current |
| **Analog output** | |
| Current output | 4…20 mA |
| Load | ≤ (supply voltage -7)/20 kΩ |
| Resolution | <± 0.1 % FS |
| Accuracy LHR | ±0.3 % FS (typical; max. ±0.5 % FS) |

## Functional principle

The pressure sensors in the PT…-1000 product series operate with a ceramic measuring cell in various pressure ranges of up to -1…60 bar in 2-, 3- or even 4-wire technology. Depending on the sensor variant, the processed signal is available as an analog output signal (4…20 mA, 0…10 V, 0…5 V, 1…6 V, ratiometric) or as a digital IO-Link process parameter. The IO-Link sensor variants also have two independently configurable switching outputs.
In addition to the standard variants, there are special sensors for uses such as ATEX areas or for oxygen applications.
A wide range of process connections and electrical connections offer a high degree of flexibility in a wide range of applications.

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## Technical data

| | |
|---|---|
| **Temperature behaviour** | |
| Medium temperature | -40…+125 °C |
| Temperature coefficient | ± 0.2 % of full scale/10 K |
| **Environmental conditions** | |
| Ambient temperature | -30…+85 °C |
| Storage temperature | -50…+100 °C |
| Vibration resistance | 20 g, 15…2000 Hz, 15…25 Hz with amplitude ± 15 mm, 1 octave/minute in all 3 directions, 50 continuous loads, acc. to IEC 68-2-6 |
| Shock resistance | 100 g, 11 ms, half sinusoidal curve, all 6 directions, free fall from 1 m onto concrete (6x) acc. to IEC 68-2-27 |
| **Mechanical data** | |
| Housing material | Stainless-steel/Plastic, 1.4404 (AISI 316L)/polyarylamide 50 % GF UL 94 V-0 |
| Pressure connection material | Stainless steel 1.4404 (AISI 316L) |
| Material pressure transducer | Ceramic $Al_2O_3$ |
| Sealing material | FPM spez. |
| Process connection | 1/4" NPT-18 male thread |
| Wrench size pressure connection / coupling nut | 24 |
| Electrical connection | Connector, DIN EN 175301-803 Form A |
| Max. tightening torque of housing nut | 20 Nm |
| **Reference conditions acc. to IEC 61298-1** | |
| Temperature | 15…+25 °C |
| Atmospheric pressure | 860…1060 hPa abs. |
| Humidity | 45…75 % rel. |
| Auxiliary power | 24 VDC |
| **Tests/approvals** | |
| Approvals | cULus |
| UL registration number | E302799 |
| MTTF | 1189 years acc. to SN 29500 (Ed. 99) 40 °C |

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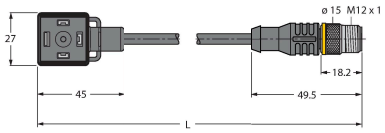
## Accessories

| Dimension drawing | Type | ID | |
|---|---|---|---|
|  | VAS04-K81E-0.6-RSC5T/TXL | 6606726 | Extension cable, valve connector, A type to M12 male connector, straight, 5-pin; cable length: 0.6 m, jacket material: PUR, black |

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