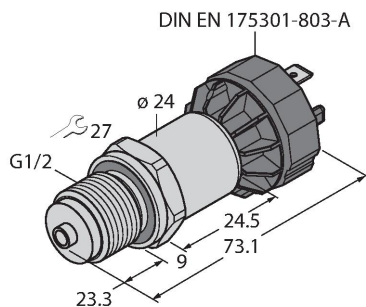


# PT0.25R-1008-I2-DA91

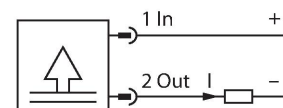
## Pressure Transmitter – With Current Output (2-Wire)



### Features

- Ceramic measuring cell
- Compact and robust design
- Excellent EMC properties
- Pressure range 0...0.25 bar rel.
- 7...33 VDC
- Analog output 4...20 mA
- Process connection G1/2" male thread, back sealing and manometer (combi)
- Connector device, DIN EN 175301-803-A

### Wiring diagram



### Technical data

|                                           |                                        |
|-------------------------------------------|----------------------------------------|
| Type                                      | PT0.25R-1008-I2-DA91                   |
| ID                                        | 100002652                              |
| Pressure type                             | Relative pressure                      |
| Pressure range                            | 0...0.25 bar                           |
|                                           | 0...3.63 psi                           |
|                                           | 0...0.025 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 |
| <b>Power supply</b>                       |                                        |
| 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                                |
| <b>Outputs</b>                            |                                        |
| Output 1                                  | Analog output                          |
| Output function                           | Analog output current                  |
| <b>Analog output</b>                      |                                        |
| Current output                            | 4...20 mA                              |
| Load                                      | ≤ (supply voltage - 7)/20 kΩ           |
| Resolution                                | < ± 0.1 % FS                           |
| Accuracy LHR                              | ± 1.2 % FS BSL                         |

### 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.

## Technical data

|                                                 |                                                                                                                                     |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <b>Temperature behaviour</b>                    |                                                                                                                                     |
| Medium temperature                              | -40...+125 °C                                                                                                                       |
| Temperature coefficient                         | ± 0.2 % of full scale/10 K                                                                                                          |
| <b>Environmental conditions</b>                 |                                                                                                                                     |
| 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                    |
| <b>Mechanical data</b>                          |                                                                                                                                     |
| 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 <sub>2</sub> O <sub>3</sub>                                                                                              |
| Sealing material                                | FPM spez.                                                                                                                           |
| Process connection                              | G 1/2" male thread, rear sealing and manometer (combi)                                                                              |
| Wrench size pressure connection / coupling nut  | 27                                                                                                                                  |
| Electrical connection                           | Connector, DIN EN 175301-803 Form A                                                                                                 |
| Max. tightening torque of housing nut           | 30 Nm                                                                                                                               |
| <b>Reference conditions acc. to IEC 61298-1</b> |                                                                                                                                     |
| Temperature                                     | 15...+25 °C                                                                                                                         |
| Atmospheric pressure                            | 860...1060 hPa abs.                                                                                                                 |
| Humidity                                        | 45...75 % rel.                                                                                                                      |
| Auxiliary power                                 | 24 VDC                                                                                                                              |
| <b>Tests/approvals</b>                          |                                                                                                                                     |
| Approvals                                       | cULus                                                                                                                               |
| UL registration number                          | E302799                                                                                                                             |
| MTTF                                            | 1189 years acc. to SN 29500 (Ed. 99) 40 °C                                                                                          |
| Included in delivery                            | Profile seal FKM special (1 pc)                                                                                                     |

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

