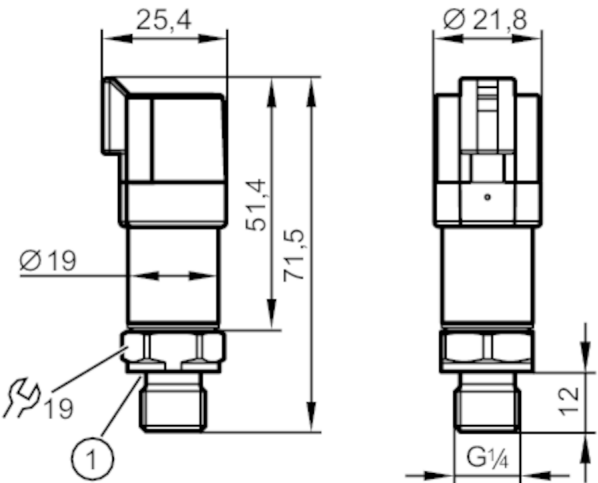


# PU8702



## Pressure transmitter

PU-100-SEG14-V-DVG/DE



1      sealing



### Product characteristics

|                              |                                                               |              |            |
|------------------------------|---------------------------------------------------------------|--------------|------------|
| Number of inputs and outputs | Number of analog outputs: 1                                   |              |            |
| Measuring range              | 0...100 bar                                                   | 0...1450 psi | 0...10 MPa |
| Process connection           | threaded connection G 1/4 external thread (DIN EN ISO 1179-2) |              |            |

### Application

|                          |                         |           |         |
|--------------------------|-------------------------|-----------|---------|
| Measuring element        | metallic thin film cell |           |         |
| Application              | for mobile applications |           |         |
| Media                    | liquids and gases       |           |         |
| Medium temperature [°C]  | -40...125               |           |         |
| Min. bursting pressure   | 1000 bar                | 14500 psi | 100 MPa |
| Pressure rating          | 250 bar                 | 3625 psi  | 25 MPa  |
| Note on pressure rating  | static                  |           |         |
| Vacuum resistance [mbar] | -1000                   |           |         |
| Type of pressure         | relative pressure       |           |         |

### Electrical data

|                                 |                 |  |  |
|---------------------------------|-----------------|--|--|
| Operating voltage [V]           | 8...32 DC       |  |  |
| Current consumption [mA]        | < 12            |  |  |
| Min. insulation resistance [MΩ] | 100; (500 V DC) |  |  |
| Protection class                | III             |  |  |
| Reverse polarity protection     | yes             |  |  |
| Power-on delay time [s]         | < 0.1           |  |  |

### Inputs / outputs

|                              |                             |
|------------------------------|-----------------------------|
| Number of inputs and outputs | Number of analog outputs: 1 |
|------------------------------|-----------------------------|

### Outputs

|                          |               |
|--------------------------|---------------|
| Total number of outputs  | 1             |
| Output signal            | analog signal |
| Number of analog outputs | 1             |



## Pressure transmitter

PU-100-SEG14-V-DVG/DE

|                                    |                        |                                                                                                 |
|------------------------------------|------------------------|-------------------------------------------------------------------------------------------------|
| Analog voltage output              | [V]                    | 0.5...4.5                                                                                       |
| Min. load resistance               | [Ω]                    | 2000                                                                                            |
| Short-circuit proof                |                        | yes                                                                                             |
| Overload protection                |                        | yes                                                                                             |
| <b>Measuring/setting range</b>     |                        |                                                                                                 |
| Measuring range                    | 0...100 bar            | 0...1450 psi                                                                                    |
|                                    |                        | 0...10 MPa                                                                                      |
| <b>Accuracy / deviations</b>       |                        |                                                                                                 |
| Repeatability                      | [% of the span]        | < ± 0,05; (with temperature fluctuations < 10 K)                                                |
| Characteristics deviation          | [% of the span]        | < ± 0,8; (incl. drift when overtightened, zero point and span error, non-linearity, hysteresis) |
| Linearity deviation                | [% of the span]        | < ± 0,25 (BFSL) / < ± 0,5 (LS)                                                                  |
| Hysteresis deviation               | [% of the span]        | < ± 0,2                                                                                         |
| Long-term stability                | [% of the span]        | < ± 0,1; (per 6 months)                                                                         |
| Temperature coefficient zero point | [% of the span / 10 K] | < ± 0,1 (0...80 °C); < ± 0,2 (-40...0 °C / 80...125 °C)                                         |
| Temperature coefficient span       | [% of the span / 10 K] | < ± 0,1 (0...80 °C); < ± 0,2 (-40...0 °C / 80...125 °C)                                         |
| <b>Reaction times</b>              |                        |                                                                                                 |
| Step response time analog output   | [ms]                   | 2                                                                                               |
| <b>Operating conditions</b>        |                        |                                                                                                 |
| Ambient temperature                | [°C]                   | -40...100                                                                                       |
| Storage temperature                | [°C]                   | -40...100                                                                                       |
| Protection                         |                        | IP 67; IP 69K                                                                                   |
| <b>Tests / approvals</b>           |                        |                                                                                                 |
| EMC                                |                        | compliant with UN ECE R10, rev. 5                                                               |
|                                    | ISO 11452-2            | 100 V/m                                                                                         |
|                                    | DIN EN 61326-1         |                                                                                                 |
| Shock resistance                   | DIN EN 60068-2-27      | 500 g (1 ms)                                                                                    |
| Vibration resistance               | DIN EN 60068-2-6       | 20 g (10...2000 Hz)                                                                             |
| MTTF                               | [years]                | 658                                                                                             |
| Pressure equipment directive       |                        | sound engineering practice; can be used for group 2 fluids; group 1 fluids on request           |
| <b>Mechanical data</b>             |                        |                                                                                                 |
| Weight                             | [g]                    | 61                                                                                              |
| Material                           |                        | stainless steel (630/1.4542/17-4 PH); stainless steel (1.4404 / 316L); PPS                      |
| Materials (wetted parts)           |                        | stainless steel (630/1.4542/17-4 PH); stainless steel (1.4305 / 303)                            |
| Min. pressure cycles               |                        | 60 million; (at 1.2 times nominal pressure)                                                     |
| Tightening torque                  | [Nm]                   | 25...35; (recommended tightening torque; Depends on lubrication, seal and pressure rating)      |
| Process connection                 |                        | threaded connection G 1/4 external thread (DIN EN ISO 1179-2)                                   |
| Process connection sealing         |                        | HNBR (DIN EN ISO 1179-2)                                                                        |
| Restrictor element integrated      |                        | yes                                                                                             |

PU8702



Pressure transmitter

PU-100-SEG14-V-DVG/DE

| Remarks       |                               |
|---------------|-------------------------------|
| Remarks       | BFSL = Best Fit Straight Line |
|               | LS = limit value setting      |
| Pack quantity | 1 pcs.                        |

Electrical connection

Connector: 1 x DEUTSCH connector (DT04-3P); Maximum cable length: 30 m



Connection



OUT                  analog output