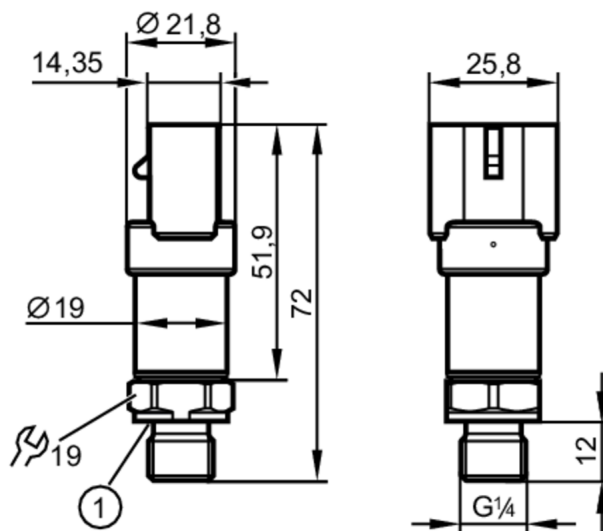


# PT5602



## Pressure transmitter

PT-100-SEG14-A-ZVG/AM



1 Sealing



| Application                     |                                |
|---------------------------------|--------------------------------|
| Application                     | for mobile applications        |
| Media                           | liquids and gases              |
| Medium temperature [°C]         | -40...125                      |
| Pressure rating [bar]           | 250                            |
| Note on pressure rating         | static                         |
| Min. bursting pressure [bar]    | 1000                           |
| Vacuum resistance [mbar]        | -1000                          |
| Type of pressure                | relative pressure              |
| Electrical data                 |                                |
| Operating voltage [V]           | 8...32 DC                      |
| Min. insulation resistance [MΩ] | 100; (500 V DC)                |
| Protection class                | III                            |
| Reverse polarity protection     | yes                            |
| Inputs / outputs                |                                |
| Number of inputs and outputs    | Number of analogue outputs: 1  |
| Outputs                         |                                |
| Total number of outputs         | 1                              |
| Output signal                   | analogue signal                |
| Number of analogue outputs      | 1                              |
| Analogue current output [mA]    | 4...20                         |
| Max. load [Ω]                   | (U <sub>b</sub> - 8 V) / 20 mA |
| Short-circuit proof             | yes                            |
| Overload protection             | yes                            |

# PT5602



## Pressure transmitter

PT-100-SEG14-A-ZVG/AM

| Measuring/setting range            |                                                                                       |                                                                                                 |
|------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Measuring range                    | [bar]                                                                                 | 0...100                                                                                         |
| Accuracy / deviations              |                                                                                       |                                                                                                 |
| 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)                                         |
| Response times                     |                                                                                       |                                                                                                 |
| Step response time analogue output | [ms]                                                                                  | 2                                                                                               |
| Operating conditions               |                                                                                       |                                                                                                 |
| Ambient temperature                | [°C]                                                                                  | -40...100                                                                                       |
| Storage temperature                | [°C]                                                                                  | -40...100                                                                                       |
| Protection                         |                                                                                       | IP 67; IP 69K                                                                                   |
| Tests / approvals                  |                                                                                       |                                                                                                 |
| EMC                                | conforms to UN ECE 10 rev. 4                                                          |                                                                                                 |
|                                    | 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]                                                                               | 700                                                                                             |
| Pressure Equipment Directive       | Sound Engineering Practice; can be used for group 2 fluids; group 1 fluids on request |                                                                                                 |
| Mechanical data                    |                                                                                       |                                                                                                 |
| Weight                             | [g]                                                                                   | 62.2                                                                                            |
| Materials                          | 1.4542 (17-4 PH / 630); stainless steel (1.4404 / 316L); PPS                          |                                                                                                 |
| Materials (wetted parts)           | 1.4542 (17-4 PH / 630)                                                                |                                                                                                 |
| 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 (to DIN 3869)                                                                    |                                                                                                 |
| Restrictor element integrated      | yes                                                                                   |                                                                                                 |
| Remarks                            |                                                                                       |                                                                                                 |
| Remarks                            | BFSL = Best Fit Straight Line                                                         |                                                                                                 |
|                                    | LS = limit value setting                                                              |                                                                                                 |
| Pack quantity                      | 1 pcs.                                                                                |                                                                                                 |

# PT5602



## Pressure transmitter

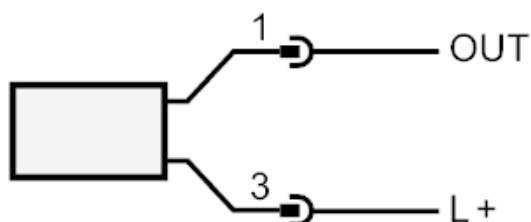
PT-100-SEG14-A-ZVG/AM

### Electrical connection

Connector: 1 x AMP-Superseal; Maximum cable length: 30 m



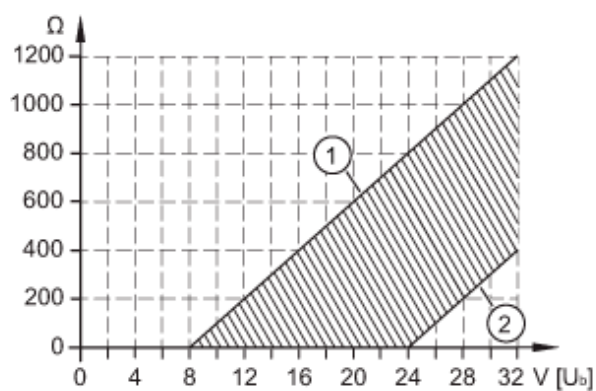
### Connection



OUT                      analogue output

### Diagrams and graphs

characteristic load curve of current  
output



1: Max. load

2: min. load