

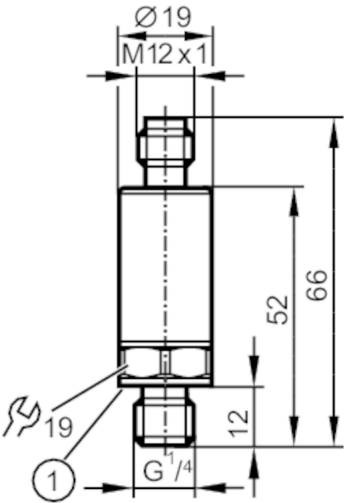
# PT5401



## Pressure transmitter

PT-250-SEG14-A-ZVG/US/ IW

When selecting an alternative article and accessories please note that technical data may differ!



1 Sealing



### Product characteristics

|                              |                                                               |              |            |
|------------------------------|---------------------------------------------------------------|--------------|------------|
| Number of inputs and outputs | Number of analogue outputs: 1                                 |              |            |
| Measuring range              | 0...250 bar                                                   | 0...3625 psi | 0...25 MPa |
| Process connection           | threaded connection G 1/4 external thread (DIN EN ISO 1179-2) |              |            |

### Application

|                          |                             |           |          |
|--------------------------|-----------------------------|-----------|----------|
| Application              | for industrial applications |           |          |
| Media                    | liquids and gases           |           |          |
| Medium temperature [°C]  | -40...90                    |           |          |
| Min. bursting pressure   | 1200 bar                    | 17400 psi | 120 MPa  |
| Pressure rating          | 625 bar                     | 9060 psi  | 62.5 MPa |
| Note on pressure rating  | static                      |           |          |
| Vacuum resistance [mbar] | -1000                       |           |          |
| Type of pressure         | relative pressure           |           |          |

### Electrical data

|                                 |                 |
|---------------------------------|-----------------|
| Operating voltage [V]           | 8.5...36 DC     |
| 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 analogue outputs: 1 |
|------------------------------|-------------------------------|

### Outputs

|                              |                 |
|------------------------------|-----------------|
| Total number of outputs      | 1               |
| Output signal                | analogue signal |
| Number of analogue outputs   | 1               |
| Analogue current output [mA] | 4...20          |

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|                     |     |                                                                                  |
|---------------------|-----|----------------------------------------------------------------------------------|
| Max. load           | [Ω] | (U <sub>b</sub> – 8,5 V) / 21,5 mA; @8,5V= 0 Ω; @12V max. 160 Ω; @24V max. 720 Ω |
| Short-circuit proof |     | yes                                                                              |
| Overload protection |     | yes                                                                              |

### Measuring/setting range

|                 |             |              |            |
|-----------------|-------------|--------------|------------|
| Measuring range | 0...250 bar | 0...3625 psi | 0...25 MPa |
|-----------------|-------------|--------------|------------|

### Accuracy / deviations

|                                             |                        |                                                                                                 |
|---------------------------------------------|------------------------|-------------------------------------------------------------------------------------------------|
| Repeatability                               | [% of the span]        | < ± 0,05; (with temperature fluctuations < 10 K)                                                |
| Characteristics deviation                   | [% of the span]        | < ± 0,5; (incl. drift when overtightened, zero point and span error, non-linearity, hysteresis) |
| Linearity deviation                         | [% of the span]        | < ± 0,1 (BFSL) / < ± 0,2 (LS)                                                                   |
| Hysteresis deviation                        | [% of the span]        | < ± 0,2                                                                                         |
| Long-term stability                         | [% of the span]        | < ± 0,1; (per 6 months)                                                                         |
| Temperature coefficient zero point and span | [% of the span / 10 K] | < 0,1 (-25...90 °C) / < 0,2 (-40...-25 °C)                                                      |

### Response times

|                                    |      |   |
|------------------------------------|------|---|
| Step response time analogue output | [ms] | 1 |
|------------------------------------|------|---|

### Operating conditions

|                     |      |               |
|---------------------|------|---------------|
| Ambient temperature | [°C] | -40...90      |
| Storage temperature | [°C] | -40...100     |
| Protection          |      | IP 67; IP 69K |

### Tests / approvals

|                              |                                                                                       |                     |
|------------------------------|---------------------------------------------------------------------------------------|---------------------|
| EMC                          | DIN EN 61000-6-2                                                                      |                     |
|                              | DIN EN 61000-6-3                                                                      |                     |
| Shock resistance             | DIN EN 60068-2-27                                                                     | 50 g (11 ms)        |
| Vibration resistance         | DIN EN 60068-2-6                                                                      | 20 g (10...2000 Hz) |
| MTTF                         | [years]                                                                               | 686                 |
| Pressure Equipment Directive | Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request |                     |

### Mechanical data

|                               |                                                               |                                                                                            |
|-------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Weight                        | [g]                                                           | 60                                                                                         |
| Materials                     | 1.4542 (17-4 PH / 630); stainless steel (316L/1.4404); PEI    |                                                                                            |
| 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    | FKM (DIN EN ISO 1179-2)                                       |                                                                                            |
| Restrictor element integrated | no (can be retrofitted)                                       |                                                                                            |

### Remarks

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

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### Electrical connection

Connector: 1 x M12; coding: A



### Connection



|     |                                                                                                                                               |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------|
| OUT | analogue output<br>The following pin connection is available under article number PT53xx Pin 1: L+, Pin 3: OUT<br>colours to DIN EN 60947-5-2 |
| BN  | brown                                                                                                                                         |
| WH  | white                                                                                                                                         |