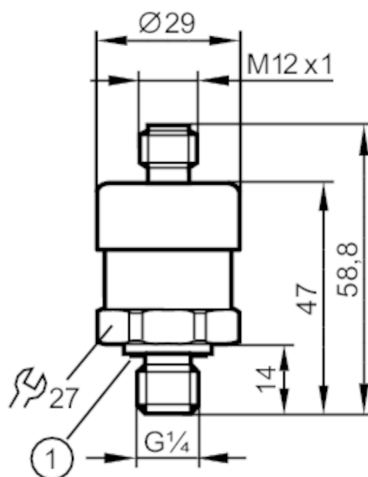




## Pressure transmitter

PT-001-AFG14-A-ZVG/US



1 Sealing



## Product characteristics

|                              |                                                               |               |              |             |
|------------------------------|---------------------------------------------------------------|---------------|--------------|-------------|
| Number of inputs and outputs | Number of analogue outputs: 1                                 |               |              |             |
| Measuring range              | 0...1 bar                                                     | 0...1000 mbar | 0...14.5 psi | 0...100 kPa |
| 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] | 0...80                      |        |         |
| Min. bursting pressure  | 5 bar                       | 72 psi | 500 kPa |
| Pressure rating         | 2 bar                       | 29 psi | 200 kPa |
| Type of pressure        | absolute pressure           |        |         |

## Electrical data

|                                 |                 |
|---------------------------------|-----------------|
| Operating voltage [V]           | 8...30 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]                | 800; (U <sub>b</sub> = 24 V; (U <sub>b</sub> - 8 V) / 20 mA) |
| Short-circuit proof          | yes                                                          |

## Measuring/setting range

|                 |           |               |              |             |
|-----------------|-----------|---------------|--------------|-------------|
| Measuring range | 0...1 bar | 0...1000 mbar | 0...14.5 psi | 0...100 kPa |
|-----------------|-----------|---------------|--------------|-------------|



## Pressure transmitter

PT-001-AFG14-A-ZVG/US

| Accuracy / deviations                                                               |                                                                                       |                                                                                            |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Repeatability                                                                       | [X21]                                                                                 | < ± 0,1; (with temperature fluctuations < 10 K)                                            |
| Characteristics deviation                                                           | [X21]                                                                                 | < ± 1,0; (incl. zero point and span error, non-linearity, hysteresis)                      |
| Linearity deviation                                                                 | [X21]                                                                                 | < ± 0,5 (BFSL) / < ± 1,0 (LS)                                                              |
| Long-term stability                                                                 | [X21]                                                                                 | < ± 0,1; (per year)                                                                        |
| Temperature coefficient zero point                                                  | [X22]                                                                                 | < ± 0,2; (0...80 °C)                                                                       |
| Temperature coefficient span                                                        | [X22]                                                                                 | < ± 0,2; (0...80 °C)                                                                       |
| Response times                                                                      |                                                                                       |                                                                                            |
| Step response time analogue output                                                  | [ms]                                                                                  | 4                                                                                          |
| Operating conditions                                                                |                                                                                       |                                                                                            |
| Ambient temperature                                                                 | [°C]                                                                                  | 0...80                                                                                     |
| Storage temperature                                                                 | [°C]                                                                                  | -20...80                                                                                   |
| Protection                                                                          |                                                                                       | IP 67                                                                                      |
| Tests / approvals                                                                   |                                                                                       |                                                                                            |
| EMC                                                                                 | DIN EN 61326-1                                                                        |                                                                                            |
| Shock resistance                                                                    | DIN EN 60068-2-27                                                                     | 500 g (1 ms)                                                                               |
| Vibration resistance                                                                | DIN EN 60068-2-6                                                                      | 10 g (10...2000 Hz)                                                                        |
| MTTF                                                                                | [ANN]                                                                                 | 815                                                                                        |
| Pressure Equipment Directive                                                        | Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request |                                                                                            |
| Mechanical data                                                                     |                                                                                       |                                                                                            |
| Weight                                                                              | [g]                                                                                   | 116.5                                                                                      |
| Materials                                                                           | stainless steel (1.4404 / 316L); HNBR; PA                                             |                                                                                            |
| Materials (wetted parts)                                                            | stainless steel (1.4404 / 316L)                                                       |                                                                                            |
| Min. pressure cycles                                                                | 10 million                                                                            |                                                                                            |
| 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                                                          | NBR (DIN EN ISO 1179-2)                                                               |                                                                                            |
| Fill fluid for pressure transfer                                                    | synthetic oil                                                                         |                                                                                            |
| Restrictor element integrated                                                       | no                                                                                    |                                                                                            |
| Remarks                                                                             |                                                                                       |                                                                                            |
| Remarks                                                                             | BFSL = Best Fit Straight Line                                                         |                                                                                            |
|                                                                                     | LS = limit value setting                                                              |                                                                                            |
| Pack quantity                                                                       | 1 pcs.                                                                                |                                                                                            |
| Electrical connection                                                               |                                                                                       |                                                                                            |
| Connector: 1 x M12; coding: A                                                       |                                                                                       |                                                                                            |
|  |                                                                                       |                                                                                            |



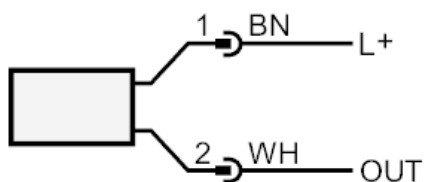
# PT0507



## Pressure transmitter

PT-001-AFG14-A-ZVG/US

### Connection



|      |                                                                  |
|------|------------------------------------------------------------------|
| OUT  | analogue output<br>colours to DIN EN 60947-5-2<br>Core colours : |
| BN = | brown                                                            |
| WH = | white                                                            |