

# PU1760

## Pressure transmitter

PU-800PSEU96-V-DVG/DE



### Product characteristics

|                              |                                                    |
|------------------------------|----------------------------------------------------|
| Number of inputs and outputs | Number of analogue outputs: 1                      |
| Measuring range [psi]        | 0...8000                                           |
| Process connection           | threaded connection 9/16" - 18 UNF external thread |

### Application

|                              |                         |
|------------------------------|-------------------------|
| Application                  | for mobile applications |
| Media                        | liquids and gases       |
| Medium temperature [°C]      | -40...125               |
| Min. bursting pressure [psi] | 36250                   |
| Pressure rating [psi]        | 20000                   |
| Note on pressure rating      | static                  |
| Vacuum resistance [psi]      | -14.5                   |
| 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 analogue outputs: 1 |
|------------------------------|-------------------------------|

### Outputs

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



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|                                    |                                                                    |                                                                                                 |
|------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Analogue voltage output            | [V]                                                                | 0.5...4.5                                                                                       |
| Min. load resistance               | [Ω]                                                                | 2000                                                                                            |
| Short-circuit proof                |                                                                    | yes                                                                                             |
| Overload protection                |                                                                    | yes                                                                                             |
| Measuring/setting range            |                                                                    |                                                                                                 |
| Measuring range                    | [psi]                                                              | 0...8000                                                                                        |
| Accuracy / deviations              |                                                                    |                                                                                                 |
| Repeatability                      | [X21]                                                              | < ± 0,05; (with temperature fluctuations < 10 K)                                                |
| Characteristics deviation          | [X21]                                                              | < ± 0,8; (incl. drift when overtightened, zero point and span error, non-linearity, hysteresis) |
| Linearity deviation                | [X21]                                                              | < ± 0,25 (BFSL) / < ± 0,5 (LS)                                                                  |
| Hysteresis deviation               | [X21]                                                              | < ± 0,2                                                                                         |
| Long-term stability                | [X21]                                                              | < ± 0,1; (per 6 months)                                                                         |
| Temperature coefficient zero point | [X22]                                                              | < ± 0,1 (0...80 °C); < ± 0,2 (-40...0 °C / 80...125 °C)                                         |
| Temperature coefficient span       | [X22]                                                              | < ± 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                                | 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                               | [ANN]                                                              | 658                                                                                             |
| Pressure Equipment Directive       | Modul A; can be used for group 2 fluids; group 1 fluids on request |                                                                                                 |
| Mechanical data                    |                                                                    |                                                                                                 |
| Weight                             | [g]                                                                | 62                                                                                              |
| 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]                                                               | 30...50; (recommended tightening torque; depends on lubrication, seal and pressure rating)      |
| Process connection                 | threaded connection 9/16" - 18 UNF external thread                 |                                                                                                 |
| Process connection sealing         | HNBR (DIN EN ISO 1179-2)                                           |                                                                                                 |
| Restrictor element integrated      | yes                                                                |                                                                                                 |
| Remarks                            |                                                                    |                                                                                                 |
| Remarks                            | BFSL = Best Fit Straight Line                                      |                                                                                                 |
|                                    | LS = limit value setting                                           |                                                                                                 |
| Pack quantity                      | 1 pcs.                                                             |                                                                                                 |

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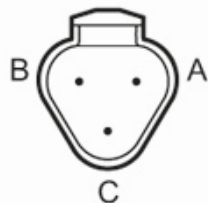


## Pressure transmitter

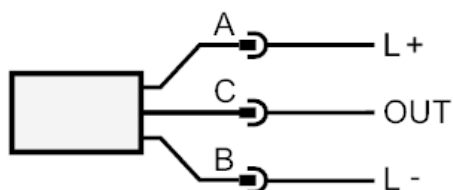
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### Electrical connection

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



### Connection



OUT                      analogue output