PNIV2 Series

Pressure level transmitter 0 ... 0.3 - 3 bar

Ref: 4014 Rev:



DESCRIPTION

The level sensing pressure transmitter PNIV2 is designed to measure pressures in fluids between 0.8... 1.4 to 3 bar in relative and 0... 0.3 to 2.5 bar in absolute terms, with an adjusted and amplified sensor signal. It is recommended for measurement in drinking water and fuels.

It is available with various cable lengths from 2 to 30 meters, according to your needs.

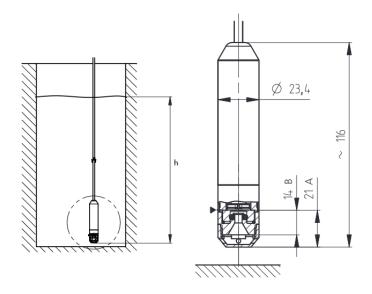
PNIV2 offers Ex protection as well as versions with integrated temperature measurement.

The outputs can be voltage, current but also with ratiometric outputs.

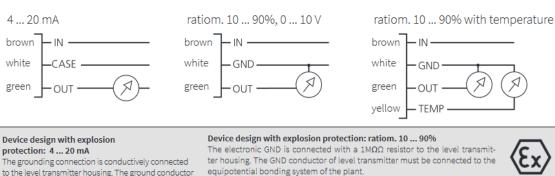
TECHNICAL CHARACTERISTICS

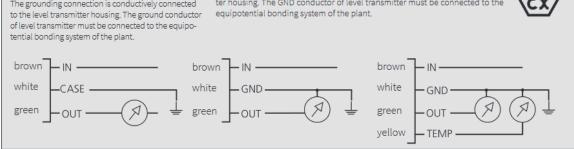
| MODEL | | | | | | |
|--|---|--------|---------|------------|--------------------------|---------------------------|
| INPUT | Relative (bar) | | 0.0+0.3 | 0.0+1.0 | 0.0+1.6 | 0.0+2.5 |
| Pression range | Absolute (bar) | | 0.8+1.4 | 0.8+2.0 | 0.8+3.0 | |
| Pression d'éclatement | 1.5 x pression du système | | | | | |
| Fluide | - Fuel oil, ultra-light SN 181 160-2 - Fuel oil, heavy SN 181 160-2 - Diesel oil - Benzine - Drinking water (with EPDM O-ring) | | | | | |
| | 2 wire 3 wire | | | | | 4 wire (with temperature) |
| Current consumption | < 20 mA | < 5 mA | | < 3 mA | | < 3 mA |
| Power supply | 10 30 VDC | 12 | 30 VDC | 5 VDC ±10% | | 5 VDC ±10% |
| OUTPUT Output Overvoltage protection | 4 20 mA | | | ratiom. 10 | 90% | ratiom. 10 90% |
| Overvoitage protection | $\begin{array}{c c} & \begin{array}{c} \text{bower suppiy-10V} \\ \hline 0.02 \text{ A} \end{array} & > 10 \text{ k}\Omega \text{ / < 100 nF} \end{array} > 5 \text{ k}\Omega \text{ / < } $ | | | 00 nF | > 5 kΩ / < 100 nF | |
| ENVIRONMENT Temperature fluid /ambient | -20 +80 °C | | | | | |
| Storage temperature | -40 +80 °C | | | | | |
| ACCURACY | Parameter | | | | Unit | |
| Standard | Max deviation at 25 °C (incl. zero point, full scale, linearity, hysteresis and repeatability) | | | | % FS | ± 0.8 |
| | Resolution (pressure range 0.3 bar < 0.2 % FS) Thermal characteristic (at -20 +80 °C) (for FS = 0.3 bartype with output 4 20 mA = \pm 0.5% fs/10K) Long-term stability acc. IEC EN 60770-1 max. | | | | % FS % FS/10k % FS | 0.1 ± 0.2 ± 0.25 |
| Higher accuracy | Parameter | | | | Unit | |
| (only with ratiometric execution and pressure range > 1 bar)) | Max deviation at compensated temperature range at -10 +60 °C (incl. zero point, full scale, linearity, hysteresis and repeatability) | | | | % FS | ± 0.5 |
| | Resolution (pressure range 0.3 bar < 0.2 % FS) Long-term stability acc. IEC EN 60770-1 max. | | | | % FS % FS | 0.1 ± 0.25 |

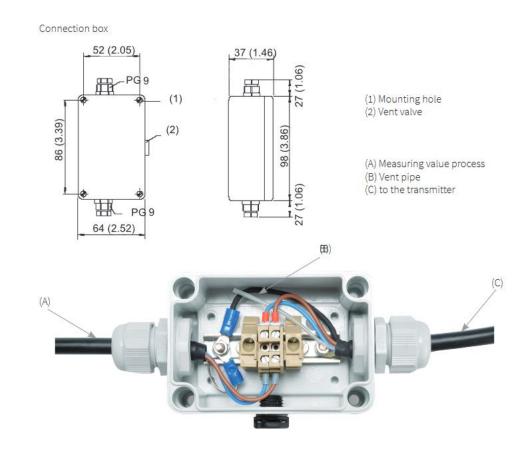
DIMENSIONS (mm)

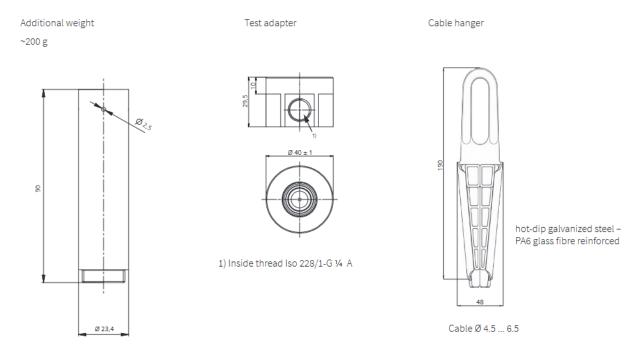


- h Fluid level
- ▶ Measurement reference height
- A Distance from protection cover to the position of measuring diaphragm
- B distance from beginning of thread to the position of measuring diaphragm (versions without protection cover)









CONTACT

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