

Explosion-Proof Pressure Transmitter – DAIX Series

4-20 mA output



With the DAIX Series, Gneuss now has an explosion proof pressure transducer available. This melt pressure transducer is intrinsically safe. The uncompromising development of the DAIX provides an excellent choice for Ex-areas, complementing years of tried and tested Gneuss products.

- 0,5%, 0,25% or 0,15% of full scale
- Ex II 1G Ex ia IIC T4
- 2 wire technology with 4-20 mA output
- Interference resistant signals over long distances
- Applications with process medias of up to 400°C (750°F) possible
- Developed in accordance with requirements of the plastics and chemical industry
- Pressure range selection via turn-down feature (multi-range)

Technical specifications DAIX Series	
Pressure range	0-50 und 0-2000 bar (0-725 to 29,000psi)
Accuracy incl. linearity, hysteresis, and reproducibility in % to full-scale	0,5%, 0,25% or 0,15%
Reproducibility in % to full-scale	± 0,1%
Membrane coating	G-Coating
Resolution	infinite
Max. pressure overload without influence on operating value	2 x range up to 1000 bar (14,500 psi) 1,5 x pressure range over 1000 bar (14,500 psi)
Bridge resistance	3500 Ohm Wheatstone Bridge
Supply voltage	10 – 30V
Output signal	4 – 20mA
Transmission medium	mercury or non-mercury
Process connection	1/2"20 UNF or M18 x 1,5
Calibration point	80%
Insulation resistance	1000 MOhm at 50V
Max. temperature at diaphragm	400°C (750°F)
Max. temperature at terminal head during operation	-20°C to 60°C -4 °F to 140 °F
Zero point deviation against diaphragm temperature changes at the diaphragm in % / °C (% / 1,8 °F)	± 0,003%
Zero point deviation against temperature changes at terminal head in % / °C (% / 1,8 °F)	± 0,003%
Ingress protection housing Ingress protection connector	IP65 IP55 / IP68
Max torque	1/2"20 UNF 30 Nm (500 inch/lbs) M18x1,5 50 Nm

Product variations (examples)



DAIX
G-Armor flexible component



Higher protection class
High protection class with cable outlet IP68



Special designs
Special designs, for example shaft length according to customer specifications

Configuration options

- Mercury or Non-Mercury NTX™ version
- 1/2 "20 UNF or M18 x 1,5 process connection
- Special diaphragm materials and coatings available
- Special shaft lengths and cable connections (fixed connection IP68) possible
- Length of flexible component is selectable
- HART communication, turn-down feature
- Pressure ranges from 0-50 and 0-2.000 bar (0-725 to 29,000 psi) available