

# Explosion-Proof Pressure Transducer – 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, complimenting years of tried and tested Gneuss products.

- 0,25 % accuracy 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 (1,000°F) possible
- Developed in accordance with requirements of the Plastics and chemical industry
- Pressure range selection via turn-down feature (multi-range)
- Auto-Zero Function (local / remote) accessible

Technical specifications DAIX Series	
Pressure range	0-50 und 0-2000 bar (0-725 to 29000 psi)
Accuracy incl. linearity, hysteresis, and reproducibility in % to full-scale	0,25% or 0,5%
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 (29000psi) 1,5 x pressure range over 1000 bar (29000psi)
Bridge resistance	350 Ohm Wheatstone Bridge
Supply voltage	10 – 30V
Output signal	4 – 20mA
Transmission medium	mercury or mercury-free
Process connection	½"20 UNF-2A or M18 x 1,5
Calibration point	80%
Insulation resistance	1000 MOhm at 50V
Max. temperature at diaphragm	400°C (1000°F)
Max. temperature at terminal head during operation	-20°C to 60°C at 0,8 – 1,1 bar (-4°F to 140°F at 11.6 to 16psi)
Zero point deviation against diaphragm temperature changes at the diaphragm in %/10°C	± 0,025%
Zero point deviation against temperature changes at terminal head in %/10°C	± 0,05%
Ingress protection housing	IP65
Ingress protection connector	IP55 / IP68
Max torque	½"20 UNF-2A 30 Nm (500inch/lbs) M18 x 1,5 50 Nm

## Product variations (examples)



**DAIX**  
Version with flexible component between shaft and terminal head



**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 / mercury-free version
- ½" UNF 2A or M18A / M18B 1/2 UNF
- 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