

With integrated signal amplifier (mA or V)

# DAIX Series Pressure Transmitter



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.

## Technical specifications

Pressure range	0..17 to 0..2000 bar 0..250 to 30000 psi
Accuracy incl. linearity, hysteresis, and reproducibility in % to full scale	0.15 % 0.25 % 0.50 %
Reproducibility in % to full scale	± 0.1 %
Membrane coating	G-Coating
Resolution	16 Bit
Max. pressure overload without influence on operating value	2 x range up to 1000 bar (14500 psi) 1.5 x pressure range over 1000 bar (14500 psi)
Bridge resistance	350 Ω Wheatstone Bridge
Temperature element:	—
Heater:	—
Supply voltage	19..30 V DC
Output signal	4..20 mA 4..20 mA (HART)
Transmission medium	NTX™ as standard
Process connection	1/2" 20 UNF or M18 x 1.5
Calibration point	80% of measuring range
Insulation resistance	>1000 MOhm at 50 V
Max. temperature at diaphragm	300°C NTX™ (572°F) 400°C Hg (750°F)
Max. temperature at terminal head during operation	- 40 .. + 85°C (40°F...185°F)
Zero deviation with temperature Variations at the diaphragm:	± 0.003% from final value/°C
Zero deviation with temperature Variations at the measuring head:	± 0.003% from final value/°C
Ingress protection housing	IP 65 /
Ingress protection connector	IP 55
Max torque	1/2" 20 UNF 30 Nm (22 lbf ft) M18 x 1.5 50 Nm (32 lbf ft)

- 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 (750°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



Authorized distributor for Gneuß products  
[www.gneussmeltsensors.com](http://www.gneussmeltsensors.com)  
[info@gwsensors.com](mailto:info@gwsensors.com)



<b>Sensor medium</b>									
Mercury-free (NXT 300°C / 572°F)									W
Mercury (Hg 400°C / 752°F)									M
<b>Electrical connection</b>									
6-pole connection (Standard)									6 P
8-pole connection									8 P
6-pole connection (type 98)									9 8
Cable exit stainless steel , 3 m	*3								3 3
<b>Special design</b>									
No special design									0 0 0
Special design									X X X

\*1 Only available >= 100 bar (1500 psi)

\*2 As a standard, all diaphragms are coated with Gneuss unique "G-Coating" against adhesive and glutinous media. Special coatings are available on request.

\*3 For cable exit, please confirm cable length. Unless specified, the standard length will be 3 m.

\*4 Only available with flexible capillary

\*5 Mercury-free High Temperature >= 300°C (only available for 100 bar (1500 psi) up to 800bar (12000 psi))