

With integrated signal amplifier (mA or V) and extremely heavy duty measuring tip

DAIH Series Pressure Transmitter



The DAIH "Heavy Duty" sensor incorporates all the features of the DAI Melt Pressure Transmitter range but features an extremely heavy duty sensor tip for highly abrasive media. This sensor is characterized by particularly good resistance where polymers with for example a high level of abrasive filler and high viscosities are processed.

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	0.5 %
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..32 V DC
Output signal	4..20 mA 0..20 mA 0..10 V
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) 500°C NaK (932°F)
Max. temperature at terminal head during operation	- 40 .. + 125°C (40°F...260°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)

- Interference resistant signals over long distances
- Stable output signals
- No damage due to incorrect wiring configurations
- 3- and 4-wire technology available at no additional charge
- Applications with process medias of up to 400°C (750°F) possible
- Standard G-coating to counteract adhesive materials
- Maximum reliability through new membrane technology
- Gneuß special diaphragm surface treatment (standard) against sticky media
- Diaphragm recessed by 0.5 mm
- Reinforced diaphragm
- Measurement diaphragm specified for 200 % of measurement range



Authorized distributor for Gneuß products
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Diaphragm												
Stainless steel (Standard)	*2											R
Alloy C4	*2											H
Alloy 718	*2											I
Special diaphragm	*2											S
Sensor medium												
Mercury-free (NXT 300°C / 572°F)												W
Mercury-free high temp. (NaK 500°C 932°F)	*5											N
Mercury (Hg 400°C / 752°F)												M
Electrical connection												
6-pole connection (Standard)												6 P
6-pole connection with optic auto-zero												6 P A
8-pole connection												8 P
6-pole connection (type 98)												9 8
Cable exit stainless steel , 3 m	*3											3 3
Special design												
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))