

With integrated temperature measurement, integrated signal amplifier and heated sensor tip

# DAIP Series Pressure Transmitter



The DAIP offers the user maximum convenience in operation, combined with the advantages of the heatable sensor tip. The auto-zero function enables calibration directly on the device or from the control room / control unit. The mass pressure transmitter provides mA or V signals at the output.

With the patented heatable sensor tip, the sensor can easily be removed even when the melt has already cooled down. Damage caused by sticking, shrinking media such as PC, PMMA or ABS is effectively prevented.

## Technical specifications

Pressure range	0..100 to 0..2000 bar 0..1500 to 0..30000 psi
Accuracy incl. linearity, hysteresis, and reproducibility in % to full scale	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:	Type J; K; L; PT 100
Heater:	24V 150W
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 .. + 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)

- Heating with 24V, no danger to humans
- Combined pressure and temperature measurement
- Highly robust design with flexible intermediate part
- Patented technology
- Gneuss special coating against adhesive and sticky media as standard
- Removal is also possible when the system is switched off
- Longlife design



Authorized distributor for Gneuß products  
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<b>Electrical connection</b>												
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
<b>Special design</b>												
No special design												0 0 0
Special design												X X X

- \*1 Only available  $\geq$  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.
- \*5 Mercury-free High Temperature  $\geq$  300°C (only available for 100 bar (1500 psi) up to 800bar (12000 psi))