

With integrated temperature measurement and standardized output signal (mV/ V)

DTA Series Pressure Transducer



The DTA defines the industry standard of a pressure measurement in combination with a temperature measurement. One process connection is enough to measure both values.

The unit excels in its high quality workmanship and cost efficiency. Its consistent reproducibility and stable measuring values contribute to our measurement accuracies.

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..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 Ingress protection connector	IP 65 / IP 55
Max torque	1/2" 20 UNF 30 Nm (22 lbf ft) M18 x 1.5 50 Nm (32 lbf ft)

- Liquid filled measuring system
- Maximum reliability through new membrane technology
- Standard G-coating to counteract adhesive materials
- Combined pressure and temperature measurement
- Robust design with G-Armor flexible components
- Applications with process temperatures of up to 500°C (932 °F) possible
- Pressure ranges from 0..50 and 0..2000 bar (0..725 to 29000 psi) available
- Stable output signals
- Long life design



Authorized distributor for Gneuß products
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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
8-pole connection										8 P
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.

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