

With standardized output signal (mV/ V)

DA Series Pressure Transducer



The DA Series melt pressure transducers are characterized by their high quality of workmanship and outstanding performance and are used in the plastic manufacturing and processing industries throughout the world.

Their consistent reproducibility and stable measuring values contribute to our measurement accuracies.

Technical specifications

Pressure range	0..50 to 0..2000 bar 0..750 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	Infinite
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	6..10 V DC
Output signal	2.00 mV/V 2.50 mV/V 3.33 mV/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)

- Application areas up to 300 °C (572 °F)
- High temperature design for temperatures of up to 500 °C (932 °F)
- Pressure ranges from 0...50 to 0...2.000 bar (0...725 to 0...29,000 psi)
- Liquid filled measuring system
- 100 % market compatible
- Non-Mercury NTX™ version available
- Maximum reliability through new membrane technology
- Standard G-coating to counteract adhesive materials



Authorized distributor for Gneuß products
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Order specification DA Series
Pressure Transducer with mV/V output

valid from: 01.01.2015

Order specification	-	-	-	-	-	-	-	-	-	-	-
Standard configuration	DA										
Total measurement error FSO											
0.25%	*1	1									
0.50%		2									
Output signal											
2.0 mV/V			00								
2.5 mV/V			05								
3.3 mV/V			50								
Thread connection											
1/2" UNF 2A (Standard)				12 A							
M18 X 1.5 A				18 A							
M18 X 1.5 B				18 B							
Pressure range											
50 bar				B 50 E							
100 bar				B 10 Z							
200 bar				B 20 Z							
350 bar				B 35 Z							
400 bar				B 40 Z							
500 bar				B 50 Z							
600 bar				B 60 Z							
700 bar				B 70 Z							
800 bar				B 80 Z							
1000 bar				B 10 H							
1400 bar				B 14 H							
2000 bar				B 20 H							
750 psi				P 75 Z							
1500 psi				P 15 H							
3000 psi				P 30 H							
5000 psi				P 50 H							
6000 psi				P 60 H							
7500 psi				P 75 H							
9000 psi				P 90 H							
10000 psi				P 10 T							
12000 psi				P 12 T							
15000 psi				P 15 T							
20000 psi				P 20 T							
30000 psi				P 30 T							
Shaft length (rigid)											
152 mm, 6" (Standard)					S 0						
203 mm, 8.0"					S 1						
254 mm, 10.0"					S 2						
318 mm, 12.5"					S 3						
356 mm, 14.0"					S 4						
457 mm, 18.0"					S 5						
38 mm, 1.5"	*4				S 6						
50 mm, 2.0"	*4				S 7						
76 mm, 3.0"					S 8						
Special length					S 9						
Length of flexible capillary											
No flexible capillary						F 0					
457 mm, 18" (Standard)						F 5					
610 mm, 24"						F 6					
760 mm, 30"						F 8					
Special length						F 9					
Diaphragm											
Stainless steel (Standard)	*2								R		
Alloy C4	*2								H		
Alloy 718	*2								I		
Stainless steel/GX-Coating	*2								B		
Alloy C4/GX-Coating	*2								C		
Alloy 718/GX-Coating	*2								D		
Special diaphragm									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
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.

*4 Only available with flexible capillary

*5 Mercury-free High Temperature >= 300°C