

Pressure Transducer with Standardized Output Signal and Integrated Temperature Measurement – DTA Series



The DTA defines the industry standard in combination with temperature measurement. One process connection suffices to measure both values. The unit excels in its high quality workmanship and cost efficiency. Its absolute reproducibility and stable measuring values contribute to our measurement accuracies.

- 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 medias of up to 400°C (750°F) possible
- Pressure ranges from 0-50 and 0-2.000 bar (0-725 to 29,000 psi) available
- Stable output signals
- Longlife Design

Technical specifications DTA Series	
Pressure range	0-50 to 0-2000 bar (0-725 to 29,000psi)
Accuracy incl. linearity, hysteresis, and reproducibility in % to full-scale	0,5%, 0,25 % or 0,15 %
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 1000bar (14,500 psi) 1,5 x pressure range over 1000 bar (14,500psi)
Bridge resistance	350 Ohm Wheatstone Bridge
Supply voltage	6 – 10 V DC
Output signal	mV/V
Transmission medium	mercury or non-mercury
Process connection	1/2" 20 UNF or M18 x 1,5
Calibration point	80 %
Insulation resistance	1000 MOhm at 50V
Max. temperature at diaphragm	400°C (750°F)
Max. temperature at terminal head during operation	-40°C to 125°C (-40 °F to 260 °F)
Zero point deviation against diaphragm temperature changes at the diaphragm % / °C (% / 1,8 °F)	± 0,003%
Zero point deviation against temperature changes at terminal head in % / °C (% / 1,8 °F)	± 0,003%
Ingress protection housin	IP65
Ingress protection connector	IP55
Max torque	1/2" 20 UNF 30 Nm (500 inch/lbs) M18 x 1,5 50 Nm

Product variations (examples)



Special designs

Special designs, for example shaft length according to customer specifications

Configuration options

- 2 mV/V or 3,33 mV/V output signal
- Mercury filled or Non-Mercury NTX™ series
- 1/2" 20 UNF or M18 x 1,5 process connection
- Special materials and additional coatings for diaphragms
- Thermocouple Typ J, L, and K
- PT 100 measuring resistor (2, 3 or 4 Wire configuration)