

With Integrated Amplifier - mA or V output

# DAI Series Pressure Transmitter



The DAI Series offers – in addition to maximum reliability – improved user friendliness in the form of an Auto-Zero Function for local or remote configuration. These models offer mA and V output signals for further processing.

The popular and most commonly used 2-wire and 4...20mA configuration provide unequalled interference in critical environments.

- Interference resistant signals over long distances
- No damage in case of reversed connection
- 3- and 4-wire technology available
- High temperature design for temperatures of up to 500 °C (932 °F)
- Maximum reliability through new membrane technology
- Standard G-coating to counteract adhesive materials

## Technical specifications

Pressure range	0...17 to 0...2000 bar
Accuracy incl. linearity, hysteresis, and reproducibility in % to full scale	0,15%, 0,25 % or 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 (14,500 psi) 1,5 x pressure range over 1000 bar (14,500 psi)
Bridge resistance	3500 Ohm Wheatstone Bridge
Supply voltage	19 - 32 V DC
Output signal	V or mA
Transmission medium	NTX™ as standard
Process connection	1/2"20 UNF or M18 x 1,5
Calibration point	80 %
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 point deviation against diaphragm temperature changes at the diaphragm % / ° C ( % / 1,8 ° F )	± 0,02 bar / °C (± 0,29 psi / °C) *
Zero point deviation against temperature changes at terminal head in % / ° C ( % / 1,8 ° F )	± 0,003 %
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)

\* With standard diaphragm, transmission medium NTX™ and 1/2"20 UNF. Modifications can differ.

## Product variations (examples)



**Highly accurate pressure sensors**  
Optional with an accuracy of 0.5%, 0.25% or 0.15% of full scale



**Auto-zero Function**  
As an option available with optical auto-zero release in the sensor head