

Pressure Transducer with Integrated Amplifier – DAI Series

mA or V output



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 mV 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
- Stable output signals
- No damage due to incorrect wiring configurations
- 3- and 4-wire technology available at no additional charge
- Applications with process medias of up to 400°C (1,000°F) possible
- Standard G-coating to counteract adhesive materials
- Maximum reliability through new membrane technology

Technical specifications DAI Series	
Pressure range	0-50 und 0-2000 bar (0-725 to 29000 psi)
Accuracy incl. linearity, hysteresis, and reproducibility in % to full-scale	0,25% or 0,5%
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 (29000 psi) 1,5 x pressure range over 1000 bar (29000 psi)
Bridge resistance	350 Ohm Wheatstone Bridge
Supply voltage	19 - 32V DC
Output signal	mA or V
Transmission medium	mercury or mercury-free
Process connection	½"20 UNF-2A or M18 x 1,5
Calibration point	80%
Isolation resistance	1000 MOhm at 50V
Max. temperature at diaphragm	400°C (1000°F)
Max. temperature at terminal head during operation	-40°C to 125°C (-40°F to 500°F)
Zero point deviation against diaphragm temperature changes at the diaphragm in %/10°C	± 0,025%
Zero point deviation against temperature changes at terminal head in %/10°C	± 0,05%
Ingress protection housing Ingress protection connector	IP65 IP55
Max torque	½"20 UNF-2A 30 Nm (500inch/lbs) M18 x 1,5 50 Nm

Product variations (examples)



Integrated temperature measurement
Optional with integrated temperature measurement (DTAI Series)



Capillary
With flexible component between shaft and terminal head



Auto-Zero Function
Auto-Zero Function, included

Configuration options

- Accuracy 0,25 % / 0,5 % of full scale
- 0-20mA, 4-20mA or 0-10V output signals
- Mercury filled / mercury-free
- ½" UNF 2A or M18 x 1,5 process connection
- Special diaphragm materials and coatings available
- Thermocouple and RTD'S available as option for temperature measurement
- Special shaft lengths and cable exits (fixed connection IP68) possible
- Length of flexible component selectable