

Pressure Transducer with standardized output signal – DA Series

mV/V output



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 absolute reproducibility and stable measuring values contribute to our measurement accuracies.

- Application areas up to 400°C (1,000°F)
- Pressure ranges from 0-50 and 0-2.000bar (0-725 and 29,000 psi)
- Liquid filled measuring system
- Maximum reliability through new membrane technology
- Standard G-coating to counteract adhesive materials
- 100 % market compatible
- Mercury free version available at no additional surcharge

Technical specifications DA Series	
Pressure range	0-50 to 0-2000bar (0-725 to 29000psi)
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 (29000psi) 1,5 x pressure range over 1000 bar (29000psi)
Bridge resistance	350 Ohm Wheatstone Bridge
Supply voltage	6 – 10 V DC
Output signal	mV/V
Transmission medium	mercury or mercury-free
Process connection	½"20 UNF-2A or M18 x 1,5
Calibration point	80 %
Insulation resistance	1000MOhm 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 housin Ingress protection connector	IP65 IP55
Max torque	½"20 UNF-2A 30 Nm (500inch/lbs) M18 x 1,5 50 Nm

Product variations (examples)



Flexible capillary
Version with flexible component between shaft and terminal head



Integrated temperature measurement
Integrated temperature measurement optional (DTA Series)



Highly accurate pressure sensors
Optional with an accuracy of 0,25 % or 0,5 % of full-scale



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 mercury-free version
- ½" UNF 2A or M18 x 1,5 process connection
- Special materials and additional coatings for diaphragms
- Thermocouples and RTD'S for optional temperature measurement