

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 0-2.000 bar (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 | |
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| Pressure range | 0-50 to 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 1000 bar (29000 psi) 1,5 x pressure range over 1000 bar (29000 psi) |
| 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 | 1000 MOhm at 50 V |
| 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 (500 inch/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