

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 (750 °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
- Non-Mercury NTX™ version available

| Technical specifications DA Series | |
|--|---|
| Pressure range | 0-50 to 0-2000 bar (0-725 to 29,000 psi) |
| 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 1000 bar (14,500 psi) 1,5 x pressure range over 1000 bar (14,500 psi) |
| 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 Ingress protection connector | IP65 IP55 |
| Max torque | 1/2" 20 UNF 30 Nm (500 inch/lbs) M18 x 1,5 50 Nm |

Product variations (examples)



Flexible capillary

G-Armor version with robust flexible Component



Integrated temperature measurement

Integrated temperature measurement optional (DTA Series)



Highly accurate pressure sensors

Optional with an accuracy of 0.5%, 0.25%, or 0.15% 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 Non-Mercury NTX™ series
- 1/2 " 20 UNF or M18 x 1,5 process connection
- Special materials and additional coatings for diaphragms
- Thermocouples and RTD'S for optional temperature measurement