

Pressure Transducer with Heated Sensor Tip

Tip – DAP Series

mV/V; mA; V output



The DAP Series incorporate a heated sensor tip, which limits the potential for sensor damage relating to the membrane, resulting from installation or removal of the pressure transmitter. The Gneuss patented heated sensor tip allows the sensor to be easily removed from a “frozen” melt without any problems. The diaphragm is not damaged when the polymer contracts. The DAP has revolutionized the handling of critical medias, for example PC, PMMA or ABS.

- Heater with 24V
- Combined pressure- and temperature measurement
- Highly tough design with flexible components
- G-coating to counteract adhesive materials
- Patented technology
- Removal possible even when extrusion line is down or at ambient temperature
- Longlife design

Technical specifications DAP 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 %
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 DAIP Supply voltage DAP	19-32 V DC 6-10 V DC
Output signal DAIP Output signal DA	V or mA mV/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	± 0,050 %
Ingress protection housing Ingress protection connector	IP 65 IP 55
Max torque	½"20 UNF-2A 30 Nm (500 inch/lbs) M18 x 1,5 50 Nm

Product variations (examples)



DAP
Optional with integrated amplifier
(DAIP Series)



Special diaphragm coating
Optional G-coating available



Heater control
External heater control (24V)
available

Configuration options

- Accuracy 0,25 % of full scale
- 2,00 mV/V or 3,33 mV/V standard output signal
- With integrated amplifier 0-20 mA, 4-20 mA, or 0-10V output
- Mercury filled / mercury free system
- Cable exit (fixed connection IP68) possible
- Thermocouple or resistance temperature detector
- Special designs per customer specifications