

# Pressure Transducer with Heated Sensor

## Tip – DAP Series

mV/V; mA; V output



The DAP Series incorporates 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
- Robust design with G-Armor flexible components
- G-coating to counteract adhesive materials
- Patented technology
- Removal possible even when extrusion line is down or at ambient temperature
- Extended life

Technical specifications DAP Series	
Pressure range	0-50 und 0-2000 bar (0-725 to 29,000psi)
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 (14,500psi) 1,5 x pressure range over 1000 bar (14,500psi)
Bridge resistance DAIP Bridge resistance DAP	3500 Ohm Wheatstone Bridge 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 non-mercury
Process connection	1/2"20 UNF or M18 x 1,5
Calibration point	80%
Isolation 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 housing 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)



**DAP**  
Optional with transmitter output (DAIP Series)



**Special diaphragm coating**  
Available special coating options



**HCS Heater Controller System**  
Heater controller unit (DAP Series)

## Configuration options

- Accuracy 0,5% / 0,25% / 0,15% of full scale
- 2,00mV/V or 3,33mV/V standard output signal
- With integrated amplifier 0-20 mA, 4-20 mA, or 0-10V output
- Mercury filled / NTX™ Non-Mercury
- 1/2" 20 UNF or M18 x 1,5 process connection
- Cable exit (fixed connection IP68) possible
- Thermocouple or RTD sensor
- Special designs per customer specifications