

Pressure Transmitter with Integrated Amplifier and Heated Sensor Tip – DAIP Series



The DAIP 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. Additionally it offers the comfort of the DA series in combination with temperature measurement, allowing for heater control. 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 DAIP has revolutionized the handling of critical medias, for example PC, PMMA or ABS.

- Heater with 24V
- Patented technology
- Maximum reliability through new membrane technology
- G-coating to counteract adhesive materials
- Robust design with G-Armor flexible components
- Applications with process medias of up 400°C (750°F) possible
- Pressure ranges from 0-50 and 0-2.000 bar (0-725 and 29,000 psi)
- Interference resistant signals over long distances
- 3- and 4-wire technology available
- With integrated amplifier 0-20mA, 4-20mA, or 0-10V output

Technical specifications DAIP Series	
Pressure range	0-50 und 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	3500 Ohm Wheatstone Bridge
Supply voltage	19 - 32 V DC
Output signal	mA or 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	IP65
Ingress protection connector	IP55
Max torque	1/2"20 UNF 30 Nm (500inch/lbs) M18x1,5 50 Nm

Product variations (examples)



Special diaphragm coating
Available special coating options



HCS Heater Controller System
Heater controller unit (DAP Series)

Configuration options

- Accuracy 0,25 % of full scale
- Stable output signals
- Mercury filled / NTX™ Non-Mercury
- Cable exit (fixed connection IP68) possible
- Thermocouple or RTD sensor
- Special designs per customer specifications