

With Heated Sensor Tip - mA; V output

# DAIP Series Pressure Transmitter



The DAIP Melt Pressure Transmitter combines an extremely high level of user-friendliness with the advantages of the heated diaphragm. Thanks to the Auto-Zero function, the sensor can be calibrated either directly on the unit itself or from the extruder control cabinet / DCS room. The sensor is available with mA or V signals. The patented, heated tip means that the sensor can be safely removed without the risk of damage even when the polymer is cold. The risk of damage from extremely sticky materials such as PC, PMMA or ABS can be reliably avoided.

## Technical specifications

Pressure range	0...50 to 0...2000 bar
Accuracy incl. linearity, hysteresis, and reproducibility in % to full scale	0,15%, 0,25 % or 0,5 %
Reproducibility in % to full scale	± 0,1 %
Membrane coating	G-Coating
Resolution	16 Bit
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	15...32 V DC
Output signal	V oder mA
Transmission medium	NTX™ as standard
Process connection	1/2"20 UNF or M18 x 1,5
Calibration point	80 %
Insulation resistance	>1000 MOhm at 50 V
Max. temperature at diaphragm	300 °C NTX (572 °F) 400 °C HG (750 °F) 500 °C NAK (932 °F)
Max. temperature at terminal head during operation	- 40... +85 °C (40 °F...185 °F)
Zero point deviation against diaphragm temperature changes at the diaphragm % / °C ( % / 1,8 ° F )	± 0,02 bar / °C (± 0,29 psi / °C) *
Zero point deviation against temperature changes at terminal head in % / °C ( % / 1,8 ° F )	± 0,003 %
Ingress protection housing	IP 65 /
Ingress protection connector	IP 55
Max torque	1/2"20 UNF 30 Nm (22 lbf ft) M18 x 1,5 50 Nm (32 lbf ft)

\* With standard diaphragm, transmission medium NTX™ and 1/2"20 UNF. Modifications can differ.

- Heater with 24 V
- 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
- Longlife design

## Product variations (examples)



### Auto-zero Function

As an option available with optical auto-zero release in the sensor head



### Special diaphragm coating

Special coating options available



### HCS Heater Controller System

Heater controller unit (DAP Series)