

DAIX Series Pressure Transmitter



The DAIX series covers the use in potentially explosive atmospheres. The pressure transmitters of ignition protection type 'Ex i intrinsically safe' allow secure signal transmission even in the harshest interference field environments. Many mechanical options complete the profile and guarantee problem-free and fit-for-purpose use in all possible applications of the plastics and chemistry sector. The uncompromising new development of the DAIX redefines the market standard for explosion-proof devices and is another perfect example from the reliable Gneuss product range.

Technical specifications

Pressure range	0...17 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	19...30 V DC
Output signal	4...20 mA
Transmission medium	NTX™ as standard
Process connection	1/2"20 UNF or M18 x 1,5
Calibration point	80 %
Insulation resistance	>0,1 MOhm at 500 VAC
Max. temperature at diaphragm	300 °C NTX (572 °F) 400 °C HG (750 °F)
Max. temperature at terminal head during operation	- 20... +60 °C (4 °F...140 °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.

- 0,5%, 0,25% or 0,15% of full scale
- Ex II 1G Ex ia IIC T4
- 2 wire technology with 4...20 mA output
- Interference resistant signals over long distances
- Applications with process temperatures of up to 400°C (750 °F) possible
- Developed in accordance with requirements of the plastics and chemical industry
- G-coating to counteract adhesive materials

Product variations (examples)



Flexible capillary

G-Armor version with robust flexible component



Higher protection class

High protection class with cable outlet IP68



Special designs

For example shaft length according to customer specifications