Pressure transmitter | Type 507

Technical data

The pressure transmitter of type series 507 with proved ceramic technology, features calibrated and amplified sensor signals which are available as standardized voltage or current outputs.

Various application-specific pressure an electrical connections can be provided.

The distinct advantages

- **Compact, rugged construction for a wide range of industrial applications**
- **Ideal from single pieces to small and larger quantities**
- **High resistance to extreme temperatures**
- **No mechanical aging**
- **No mechanical creepage**

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Relative pressure
-1 up to +600 bar
Absolute pressure
2.5 up to 16 bar

Pressure range gradation and executions see order code selection table

Description

Technical data

Overload	2x measuring range (fs) max 1000 bar
Rupture pressure	3x measuring range (fs), at 600 bar 1200 bar
Accuracy	Total of linearity, hysteresis and repeatability
	< ± 0,3% fs

	Adjustment accuracy zero point and full scale (repeatable, stable)	
	< ± 0,3% fs	
Materials in contact	Ceramic / Stainless steel 1.4305 (AISI 303)	
with the medium	Sealing material: optionally FPM, EPDM, NBR, MVQ	
	according to order code selection table.	
Temperature influences	Medium and ambient temperature	-15 °C to +80°C
	Medium and ambient temperature	to -40 °C on request
	TC zero point	< +/- 0.04 % fs/°C (< 60 bar)
	TC zero point	< +/- 0.05 % fs/°C (> 60 bar)
	TC sensitivity typically	< +/- 0.015 % fs/°C
Dynamic response	Suitable for static and dynamic measurements. Response time < 5 ms	
Outputs and power supply	See order code selection table	
Load	0 - 5 V > 10 kOhm < 100 nF	
	1 - 6 V > 10 kOhm < 100 nF	
	0 - 10 V > 10 kOhm < 100 nF	
	$4 - 20\ mA \leq \frac{\text{supply voltage } -11\,V}{0.02\ A}\ [Ohm]$	
Current consumption	With max. signal output:	
	0 - 5 V	< 2 mA
	1 - 6 V	< 2 mA
	0 - 10 V	< 3 mA
	4 - 20 mA	< 20 mA
Calibration	Calibrated in the factory	