

## Pressure transducer model 2000.44.08

Complete stainless steel thin film sensor with flush mounted stainless steel diaphragm  
 Accuracy 0,5 % and 1 % F.S.

### Features

- Flush mounted diaphragm
- Sanitary application
- Excellent long term stability
- Protection IP65

### Ranges

- 1 ... 0 bar up to 0 ... 600 bar  
 -30 in. Hg up to 0 ... 8.700 psi

### Application

Dairy, food, beverage and pharmaceutical



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Technical specification	
Measuring principle	Polysilicon thin film technology, flush metallic diaphragm and liquid filling
Range in bar	1 2,5 4 6 10 16 25 40 60 100 160 250 400 600
Overpressure limit in bar	6 6 10 14 20 40 70 100 138 200 304 525 640 900
Pressure type	Gauge and compound
Process connection	G ½ A male according DIN 3852 with metal seal cone at the top G ½ A male with O-ring and sealing ring ½ NPT male according ANSI/ASME B1.20.1, others on request
Material	
Process connection	Stainless steel 316Ti (1.4571)
Diaphragm	Stainless steel 316Ti (1.4571), Hastelloy C
Transmission liquid	Silicon oil, Halocarbon or Almond oil
Sensor	Stainless steel diaphragm 1.4542/1.4548 (17-4PH) with polysilicium cell
Case	Stainless steel 304 (1.4301)
Power supply	12 ... 30 VDC
Output signal	4 ... 20 mA, 2-wire 0 ... 10 VDC, 3-wire 0 ... 5 VDC, 3-wire 1 ... 5/6 VDC, 3-wire 0 ... 20 mA, 3-wire
Maximum loop resistance for 4 ... 20 mA	$\leq (U_B - 9 V) / 0,02 A$
Isolation between case and electrical connection	> 1 MΩ at 50 VDC
Isolation voltage	350 VAC
Supply current	Max. 5 mA for VDC output, 20 mA for 4 ... 20 mA output signal
Accuracy according DIN 16 086 (terminal point)	0,5 % F.S., 1,0 % F.S. for ranges 1 bar, 2,5 bar and 600 bar
Repeatability	Please advise/note inclination of mounting position
Response time (10 ... 90 %)	$\leq \pm 0,15$ % F.S. $\leq 5$ ms
Permissible	
Operation temperature	-30 ... 85 °C
Medium temperature	-30 ... 100 °C
Storage temperature	-40 ... 100 °C
Compensated temperature	-20 ... 70 °C
Temperature influence	$\pm 0,3$ % / 10 K from 0 ... 50 °C (ref. 20 °C) for > 10 bar $\pm 1,2$ % / 10 K from 0 ... 50 °C (ref. 20 °C) for $\leq 10$ bar
Medium temperature influence	
Shock resistance	At 20 g / 20 ms $\leq 0,1$ % F.S.
Vibration	$\leq 0,1$ % F.S. for 0 ... 400 Hz, 20 g in all directions according IEC 770
Noise of output signal	$\leq 0,02$ % F.S.
CE-mark/EMC	Emission according EN 50 081-1 (March 1993) Immunity according EN 50 082-2 (March 1995)
Electrical connection	4 PIN angle connector according EN 175301-803, cable connection, field housing
Protection according EN 60 529/IEC 529	IP65, optional IP68
Weight in kg	0,25
Accessories, options	Weld in adapter, digital panel meter

All specifications are subject to change without notice.

OEM SERIES:


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