

1: Aseptoflex sealing edge  
2: Aseptoflex thread



EC 1935/2004 EHEDG Certified



Product characteristics  
Electronic pressure sensor

Quick disconnect

no dead space

Zero and span adjustable

Programmable via EPS interface

Process connection: for Aseptoflex adapter

Analog output

Measuring range: -0.13...2.50 bar / -1.8...36.3 psi / -13...250 kPa

Application

Application

Type of pressure: relative pressure  
Hygienic systems, viscous media and liquids with suspended particles  
Liquids and gases

Pressure rating	20 bar	290 psi	2000 kPa
Bursting pressure min.	50 bar	725 psi	5000 kPa
Medium temperature [°C]	-25...125 (145 max. 1h)		
Electrical data	DC		
Electrical design	DC		
Operating voltage [V]	14...30 DC		
Insulation resistance [MΩ]	> 100 (500 V DC)		
Protection class	III		
Reverse polarity protection	yes		
Outputs	Analog output		
Output	4...20 mA analog		
Output function	yes		
Overload protection	yes		
Analog output	4...20 mA		
Max. load [Ω]	max. (Ub - 13 V) / 20 mA; 550 at Ub = 24 V		
Measuring / setting range			
Measuring range	-0.13...2.50 bar	-1.8...36.3 psi	-13...250 kPa

# PM2056 - Electronic pressure sensor - eclass: 27201302 / 27-20-13-02

## Setting range

Analog start point, ASP	-0.13...1.88 bar	-1.8...27.2 psi	-13...188 kPa
Analog end point, AEP	0.50...2.50 bar	7.3 ...36.3 psi	50...250 kPa
in steps of	0.01 bar	0.1 psi	1 kPa
Factory setting	ASP = 0.0 bar; AEP = 2.50 bar		

## Accuracy / deviations

### Accuracy / deviations

(in % of the span) Turn down 1:1

Characteristics deviation *)	< ± 0.6
Linearity	< ± 0.5
Hysteresis	< ± 0.1
Repeatability **)	< ± 0.1
Long-term stability ***)	< ± 0.1

Temperature coefficients (TEMPCO) in the temperature range 0...80° C (in % of the span per 10 K)

Greatest TEMPCO of the zero point	< ± 0.1
Greatest TEMPCO of the span	< ± 0.2

## Reaction times

Response time analog output [ms]	3
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## Environment

Ambient temperature [°C]	-25...80
Storage temperature [°C]	-40...100

Protection	IP 67
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## Tests / approvals

EMC	EN 61000-4-2 ESD:	4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated:	10 V/m
	EN 61000-4-4 Burst:	2 kV
	EN 61000-4-6 HF conducted:	10 V

Shock resistance	DIN IEC 68-2-27:	50 g (11 ms)
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Vibration resistance	DIN IEC 68-2-6:	20 g (10...2000 Hz)
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MTTF [Years]	271
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## Mechanical data

Process connection	for Aseptoflex adapter
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Materials (wetted parts)	ceramics (99.9 % Al <sub>2</sub> O <sub>3</sub> ); PTFE; stainless steel 316L / 1.4404; surface characteristics: Ra < 0.4 / Rz 4
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Housing materials	stainless steel 316L / 1.4404; PEI; FPM (Viton)
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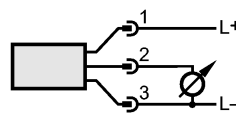
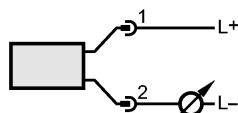
Min. pressure cycles	100 million
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Weight [kg]	0.466
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## Electrical connection

Connection	M12 connector; gold-plated contacts
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## Wiring



## Remarks

Remarks	<p>*) linearity, incl. hysteresis and repeatability; (limit value setting to DIN 16086)</p> <p>***) with temperature fluctuations &lt; 10 K</p> <p>****) in % of the span per year</p> <p>The 3-A qualification is only valid if adapters with 3-A qualification are used for installation.</p>
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Pack quantity [piece]	1
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