

- 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: -1...25 bar / -15...363 psi / -0.1...2.5 MPa

Application

Application

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

Pressure rating	100 bar	1450 psi	10 MPa
Bursting pressure min.	350 bar	5070 psi	35 MPa
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	4...20 mA		
Analog output	max. (Ub - 13 V) / 20 mA; 550 at Ub = 24 V		
Max. load [Ω]			
Measuring / setting range			
Measuring range	-1...25 bar	-15...363 psi	-0.1...2.5 MPa

PM2053 - Electronic pressure sensor - eclass: 27201302 / 27-20-13-02

Setting range

Analog start point, ASP	-1.0...18.8 bar	-15...272 psi	-0.10...1.88 MPa
Analog end point, AEP	5.3...25.0 bar	76...363 psi	0.53...2.50 MPa
in steps of	0.1 bar	1 psi	0.01 MPa
Factory setting	ASP = 0.0 bar; AEP = 25.0 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

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)
Vibration resistance	DIN IEC 68-2-6:	20 g (10...2000 Hz)
MTTF [Years]	271	

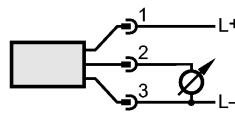
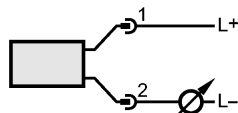
Mechanical data

Process connection	for Aseptoflex adapter	
Materials (wetted parts)	ceramics (99.9 % Al ₂ O ₃); PTFE; stainless steel 316L / 1.4404; surface characteristics: Ra < 0.4 / Rz 4	
Housing materials	stainless steel 316L / 1.4404; PEI; FPM (Viton)	
Min. pressure cycles	100 million	
Weight [kg]	0.467	

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 < 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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