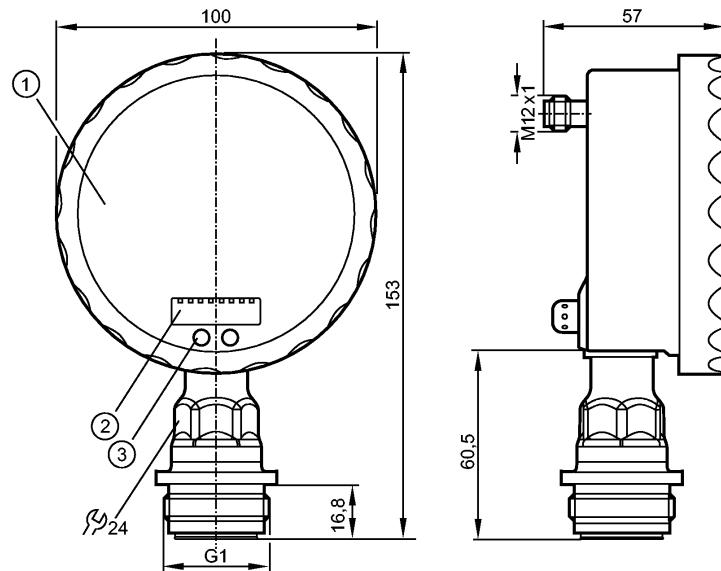


**PG2796**

PG-2.5-REA01-MFRKG/US/ /P

Pressure sensors



1: Analogue display

2: 4-digit alphanumeric display

3: Touch pad (programming button)

**Product characteristics**

Electronic pressure sensor  
with analog display

Quick disconnect

Suitable for all standard CIP and SIP processes

Analog display 0...350° rotatable

Resolution 0.25%

Pointer not visible when unit disconnected

no dead space

Process connection: G 1 A / Aseptoflex Vario

2 Output

OUT1 = Switching output

OUT2 = Analog output

analog display, 4-digit alphanumeric display

Measuring range: -0.124...2.5 bar / -1.8...36.27 psi

**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

Bursting pressure min.

50 bar

725 psi

Medium temperature

[°C]

-25...125 (145 max. 1h)

**Electrical data**

Electrical design

DC PNP/NPN

Operating voltage

[V]

18...32 DC

Current consumption

[mA]

&lt; 70 (24 V)

**PG2796**

PG-2.5-REA01-MFRKG/US/ /P

Pressure sensors

Insulation resistance	[MΩ]	> 100 (500 V DC)
Protection class		III
Reverse polarity protection		yes
<b>Outputs</b>		
Output		2 Output OUT1 = Switching output OUT2 = Analog output
Output function		1 x normally open / closed programmable + 1 x analogue (4...20 / 20...4 mA, scalable)
Current rating	[mA]	250
Voltage drop	[V]	< 2
Short-circuit protection		yes (non-latching)
Overload protection		yes
Switching frequency	[Hz]	50
Analog output		I: 4...20 mA (Ineg: 20...4 mA)
Max. load	[Ω]	I / Ineg: max. (Ub - 10 V) × 50
<b>Measuring / setting range</b>		
Measuring range		-0.124...2.5 bar      -1.8...36.27 psi
Setting range		
Set point, SP		-0.120...4.000 bar      -1.74...58.02 psi
Reset point, rP		-0.124...3.996 bar      -1.80...57.96 psi
Analog start point, ASP		-0.124...3.370 bar      -1.80...48.87 psi
Analog end point, AEP		0.500...4.000 bar      7.26...58.02 psi
in steps of		0.002 bar      0.03 psi
<b>Accuracy / deviations</b>		
Accuracy / deviations (in % of the span) Turn down 1:1		
Switch point accuracy		< ± 0.2
Characteristics deviation *		< ± 0.2
Linearity		< ± 0.15
Hysteresis		< ± 0.15
Repeatability **)		< ± 0.1
Long-term stability ***)		< ± 0.1
Temperature coefficients (TEMPCO) in the temperature range 0...70° C (in % of the span per 10 K)		
Greatest TEMPCO of the zero point		< ± 0.05
Greatest TEMPCO of the span		< ± 0.15
<b>Reaction times</b>		
Power-on delay time	[s]	6
Min. response time switching output	[ms]	10
Damping for the switching output (dAP)	[s]	0.01...30
Damping for the analog output (dAA)	[s]	0.01...30
Step response time analogue output	[ms]	25
Integrated watchdog		yes
<b>Environment</b>		

**PG2796**

PG-2.5-REA01-MFRKG/US/ /P

Pressure sensors

Ambient temperature	[°C]	-25...80
Storage temperature	[°C]	-40...100
Protection		IP 67 / IP 69K

**Tests / approvals**

EMC	EN 61000-4-2 ESD: EN 61000-4-3 HF radiated: EN 61000-4-4 Burst: EN 61000-4-5 Surge: EN 61000-4-6 HF conducted:	4 kV CD / 8 kV AD 10 V/m 2 kV 0.5/1 kV 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]		100

**Mechanical data**

Process connection	G 1 A / Aseptoflex Vario
Materials (wetted parts)	ceramics (99.9 % Al2 O3); PTFE; stainless steel 316L / 1.4435; surface characteristics: Ra < 0.4 / Rz 4
Housing materials	stainless steel 316L / 1.4404; PA; FPM (Viton); PTFE; viewing glass: laminated safety glass 4 mm
Switching cycles min.	100 million
Weight [kg]	0.558

**Displays / operating elements**

Display	Display unit 2 x LED green Switching status LED yellow Switch points LED ring Function display 4-digit alphanumeric display Measured values analog display, 4-digit alphanumeric display
Extended display range (max.)	4 bar 58.02 psi

**Electrical connection**

Connection	M12 connector; gold-plated contacts
Wiring	 

**Remarks**

Remarks	*) linearity, incl. hysteresis and repeatability; (limit value setting to DIN 16086) characteristics deviation in the extended display range: 1.5 % of the span switch point accuracy in the extended display range: 1.5 % of the span **) with temperature fluctuations < 10 K ***) in % of the span per year
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Pack quantity	[piece]	1
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