

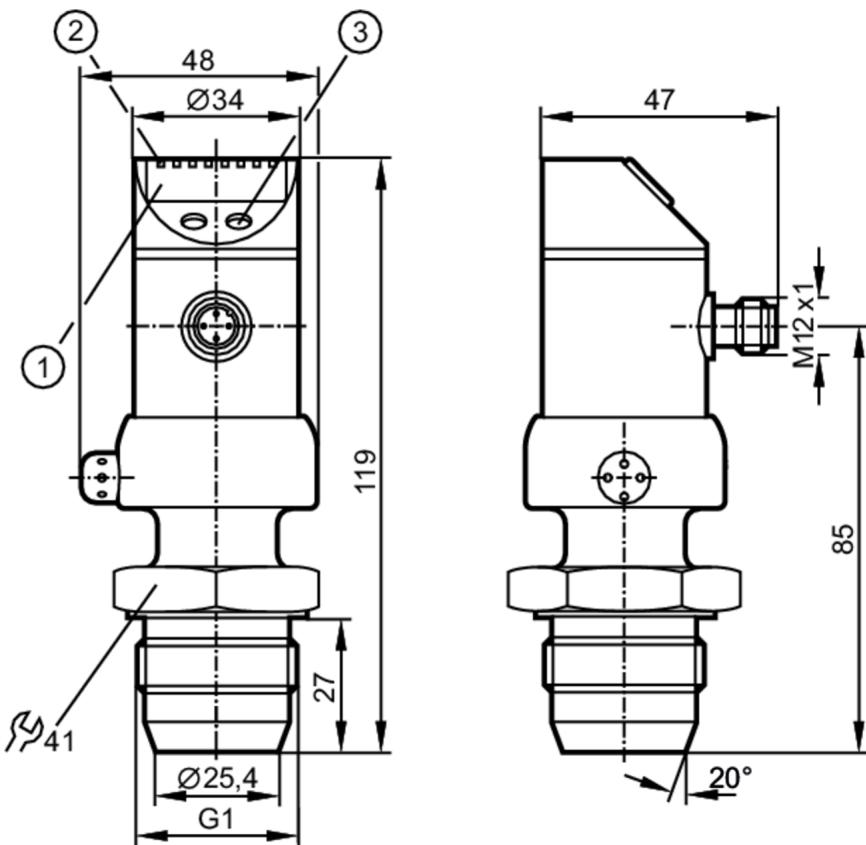
## Flush pressure sensor with display

PI-2,5-REA01-E-ZVG/US /P

Article to be discontinued

Alternative articles: PI2896 or PI2796

When selecting an alternative article and accessories please note that technical data may differ!



- 1 alphanumeric display 4-digit  
 2 status LEDs  
 3 Programming button



## Product characteristics

Number of inputs and outputs	Number of analog outputs: 1	
Measuring range	-0.124...2.5 bar	-124...2500 mbar
Process connection	threaded connection G 1 external thread sealing cone	
<b>Application</b>		
System	gold-plated contacts	
Application	flush mountable for the food and beverage industry	
Installation	Freely rotatable housing 350°	
Media	viscous media and liquids with suspended particles; liquids and gases	
Medium temperature [°C]	-25...125; (145 max. 1h)	
Min. bursting pressure [bar]	50	
Pressure rating [bar]	20	
Type of pressure	relative pressure	

# PI1696



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No dead space		yes
<b>Electrical data</b>		
Operating voltage	[V]	20...32 DC
Min. insulation resistance	[MΩ]	100; (500 V DC)
Protection class		III
Reverse polarity protection		yes
Power-on delay time	[s]	0.5
Switch-on peak current	[mA]	6
Switch-on peak current duration		30
Integrated watchdog		yes
<b>Inputs / outputs</b>		
Number of inputs and outputs		Number of analog outputs: 1
<b>Outputs</b>		
Total number of outputs		1
Output signal		analog signal
Number of analog outputs		1
Analog current output	[mA]	4...20, invertible; (scalable 1:4)
Max. load	[Ω]	300
Overload protection		yes
<b>Measuring/setting range</b>		
Measuring range		-0.124...2.5 bar      -124...2500 mbar
Analog start point	[bar]	-0.124...1.88
Analog end point	[bar]	0.5...2.5
In steps of	[bar]	0.002
Factory setting		ASP = 0.000 bar      AEP = 2.500 bar
<b>Accuracy / deviations</b>		
Repeatability	[% of the span]	< ± 0,1; (with temperature fluctuations < 10 K; Turn down 1:1)
Characteristics deviation	[% of the span]	< ± 0,2; (Turn down 1:1 , linearity, incl. hysteresis and repeatability , limit value setting to DIN EN IEC 62828-1)
Linearity deviation	[% of the span]	< ± 0,15; (Turn down 1:1)
Hysteresis deviation	[% of the span]	< ± 0,15; (Turn down 1:1)
Long-term stability	[% of the span]	< ± 0,1; (Turn down 1:1; per year)
Temperature coefficient zero point	[% of the span / 10 K]	< ± 0,05; (0...70 °C)
Temperature coefficient span	[% of the span / 10 K]	< ± 0,15; (0...70 °C)
<b>Reaction times</b>		
Damping for the analog output dAA	[s]	0.1...100
Max. response time analog output	[ms]	40

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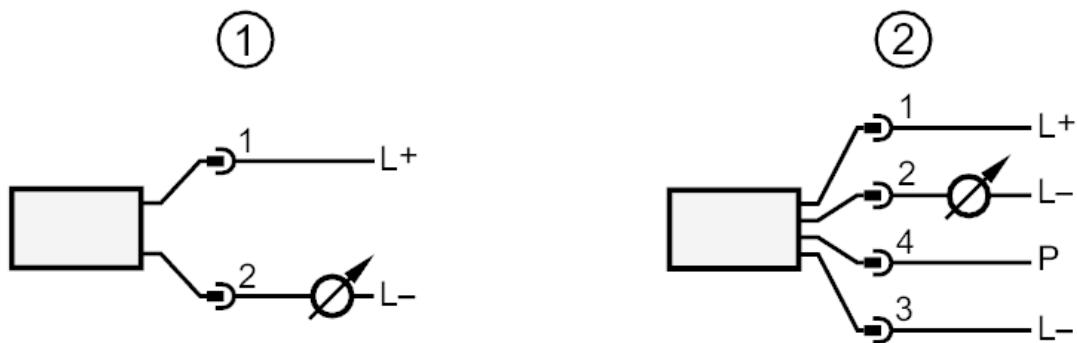
Software / programming		
Parameter setting options		Zero point; span
Operating conditions		
Ambient temperature	[°C]	-25...80
Storage temperature	[°C]	-40...100
Protection		IP 67; IP 69K
Tests / approvals		
EMC		EN 61000-4-2 ESD EN 61000-4-3 HF radiated EN 61000-4-4 Burst EN 61000-4-5 Surge EN 61000-4-6 HF conducted
Shock resistance		DIN IEC 68-2-27
Vibration resistance		DIN IEC 68-2-6
MTTF	[years]	238
Mechanical data		
Weight	[g]	435.6
Material		stainless steel (1.4404 / 316L); PC; PBT; PEI; FKM; PTFE
Materials (wetted parts)		ceramics (99.9 % Al2O3); stainless steel (1.4435 / 316L); surface characteristics: Ra < 0,4 / Rz 4; PTFE
Min. pressure cycles		100 million
Process connection		threaded connection G 1 external thread sealing cone
Displays / operating elements		
Display		Display unit Function display Measured values
Display unit		bar; kPa; psi; inH2O; mWS; % of the span
Remarks		
Remarks		The 3-A qualification is only valid if adapters with 3-A qualification are used for installation.
Pack quantity		1 pcs.
Electrical connection		
Connector: 1 x M12; coding: A; Contacts: gold-plated		



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### Connection



1: Normal operation

2: Programming operation (P = communication via EPS / FDT interface)