



Electronic pressure sensorPM1607

URL:https://www.sxplc.com/electronic-pressure-sensor-pm1607

Product data sheet

Product characteristics					
Number of inputs and outputs Measuring range	Number of digital outputs: 1; Number of analo -0.051 ber -501000		-0.7314.5 psi	-5100 kPa	
Process connection	threaded connection G 1 external thread seal		10.73 INO PR	-5 Nov Mr.B	
Application					
System Measuring element	gold-plated contacts ceramic-capacitive pressure measuring cell				
Temperature monitoring	no				
Application	flush mountable for the food and beverage in	lustry			
Media	viscous media and liquids with suspended pa	ticles; liquids and gas	ies		
Medium temperature ["C]	-25150	435 psi		3000 kPa	
Min. bursting pressure Pressure rating		435 psi 145 psi		1000 kPa	
Vacuum resistance [mbar]	-1000				
Type of pressure	relative pressure				
No dead space	yes				
MAWP (for applications according to CRN) [bar]	10				
Electrical data					
Operating voltage [V]	1830 DC				
Min. insulation resistance [MΩ]	100; (500 V DC)				
Protection class Reverse polarity protection	III yes				
Measuring principle	hydrostatic				
Integrated watchdog	yes				
2-wire					
Current consumption [mA]	3.521.5				
Power-on delay time [s]	1				
3-wire					
3-wire Current consumption [mA]	< 45				
Power-on delay time [s]	0.5				
Inputs / outputs					
Number of inputs and outputs	Number of digital outputs: 1; Number of analo	g outputs: 1			
		a sequenti 1			
Outputs					
Total number of outputs	2				
Output signal Number of digital outputs	analog signal; IO-Link; (configurable) 1; (IO-Link)				
Number of analog outputs	1				
Analog current output [mA]	420; (scalable)				
Max. load [0]	700; (Ub = 24 V; (Ub - 9 V) / 21.5 mA)				
Short-circuit proof Overload protection	yes				
	·				
Measuring/setting range					
Measuring range	-0.051 bar -501000		-0.7314.5 psi	-5100 kPa	
Analog start point Analog end point		0.7311.6 psi 2.1814.5 psi		-580 kPa 15100 kPa	
Anarog end point		2.1814.5 psi 0.01 psi		15100 kPa 0.05 kPa	
Factory setting		AEP = 1000 mbar			
Accuracy / deviations					
Repeatability (% of the span)	< ± 0,1; (with temperature fluctuations < 10 K		to DIN EN IEC 82828	145	
Repeatability [% of the span] Characteristics deviation [% of the span] Linearity deviation [% of the span]	<pre>< ± 0,1; (with temperature fluctuations < 10 K < ± 0,2; (linearity incl. hysteresis and repeatal < ± 0,15; (Turn down 1:1)</pre>		g to DIN EN IEC 62828	i-1)	
Characteristics deviation [% of the span] Linearity deviation [% of the span] Hysteresis deviation [% of the span]	< \pm 0,2; (linearity incl. hysteresis and repeatal < \pm 0,15; (Turn down 1:1) < \pm 0,15; (Turn down 1:1)		g to DIN EN IEC 62828	-1)	
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Characteristics deviation [% of the span] Linearity deviation [% of the span] Hysteresis deviation [% of the span]	< \pm 0.2; (linearity incl. hysteresis and repeatal $\leq \pm$ 0.15; (Turn down 1:1) $\leq \pm$ 0.15; (Turn down 1:1) $\leq \pm$ 0.15; (Turn down 1:1) Temperature range 25.15 °C		total deviation	ion + 0.05 % of the span / 10 K	
Characteristics deviation [% of the span] Linearity deviation [% of the span] Hysteresis deviation [% of the span] Long-term stability [% of the span]	<pre>< ± 0.2; (inearity incl hysteresis and repeatal < ± 0.15; (Turn down 1:1) < ± 0.15; (Turn down 1:1) < ± 0.1; (Turn down 1:1) < < ± 0.1; (Turn down 1:1; per year) Temperature (ance)</pre>		total deviation Characteristics deviat	ion + 0.05 % of the span / 10 K	
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