

Pressure Instrumentation

High Accuracy Programmable Pressure Sensor Part Number Key

PS 010V - 5 03 - LI2UPN 8 X - H1141

Pressure Sensor			Connection	
Nominal Pressure Range			H1141 = 4-pin male, M12x1 (<i>euromat</i>)	
01VR = -1 to 0 bar gauge (-14.5 to 0 psi)			with LED	
001R = 0 to 1 bar gauge (0 to 14.5 psi)			Operating Voltage	
001V = -1 to 1 bar gauge (-14.5 to 14.5 psi)			8 = 15(18)...30 VDC	
003V = -1 to 2.5 bar gauge (-14.5 to 36 psi)			Electrical Output	
010V = -1 to 10 bar gauge (-14.5 to 145 psi)			Output 1	Output 2
016V = -1 to 16 bar gauge (-14.5 to 232 psi)			2UPN	switching output
025V = -1 to 25 bar gauge (-14.5 to 362 psi)			LUUPN	switching output
040V = -1 to 40 bar gauge (-14.5 to 580 psi)			LI2UPN	voltage output
100R = 0 to 100 bar gauge (0 to 1450 psi)				current/switching output
250R = 0 to 250 bar gauge (0 to 3625 psi)				
400R = 0 to 400 bar gauge (0 to 5800 psi)				
600R = 0 to 600 bar gauge (0 to 8700 psi)				
001A = 0 to 1 bar absolute (0 to 14.5 psi)				
003A = 0 to 2.5 bar absolute (0 to 36 psi)				
010A = 0 to 10 bar absolute (0 to 145 psi)				
016A = 0 to 16 bar absolute (0 to 232 psi)				
025A = 0 to 25 bar absolute (0 to 362 psi)				
			Pressure Connection	
			01 = G1/4" female thread	
			03 = 1/4"-18 NPT male thread	
			04 = G1/4" male thread	
			05 = 7/16"-20 UNF male thread	
			Housing	
			5 = Rotatable	
			3 = IP69k	

PRESSURE

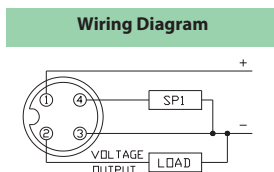
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PS300 Programmable Pressure Sensor Specifications

Electrical	
Operating Voltage	18-30 VDC
Current Consumption	50 mA
Power-On Effect	Per IEC 947-5-2
Reverse Polarity Protection	Yes
Transient Protection	EN 60947-5-2
Short-Circuit Protection	Yes
EMC Information	
EN 61000-4-2	ESD: 4 KD CK/ 8 KV AD
EN 61000-4-3	HF irradiated: 15 V/m
EN 61000-4-4	Burst: 2 KV
EN 61000-4-5	Surge: 500 V, 12
EN 61000-4-6	HF conducted: 10 V
Environmental	
Ambient Temperature	-40°to +80°C (-40°to +176°F)
Medium Temperature	-25°to +85°C (-40°to +185°F)
Enclosure Rating	IP69K
Shock	50 g per IEC 68-2-27
Vibration	20 g (10-200 Hz) per IEC 68-2-6
Burst Protection	patented media stop
Materials	
Housing	Stainless Steel 303
Wetted Parts	Stainless Steel 303, FPM o-ring Al ₂ O ₃ Ceramic transducer
Operational	
Output	Programmable Current: . 0-10 V, 1-6 V, 0-5 V . 10-0 V, 6- 1 V, 5-0 V and . 1 PNP/NPN N.O./N.C. Or . 2 PNP/NPN N.O./N.C.
Switching Frequency	180 Hz
Switching Current	200 mA
Analog Load	500

Operational continued	
Accuracy	
Set Point Accuracy	±0.5% of Full Scale
Analog Accuracy**	±0.5% of Full Scale
Response time	<3 ms
Repeatability	0.5% of measuring range
Zero Shift/Span Shift	0.15% of measuring range/°C
Programmable Analog	
Analog Start Point	Programmable from 0-75% of measuring range
Analog End Point	Programmable from 25-100% of measuring range
Set Points	
Set Point Range	1% - 100% Range
Reset Point Range	.5% - 99.5% Range
Minimum Hysteresis	0.5% of Full Scale
Switching Delay	Switch-on and switch-off delay adjustable from 0 to 50 seconds in steps of 0.1 second
LED Function/Display	
Measuring Value	4-digit 7-segment display
Programming Status Display	LEDs indicate output status and selected measuring units
Display Reaction Time	Slow 600 ms update Normal 200 ms update Fast 50 ms update
I/O Link Parameters	
Communication	Specified according to Version 1.0
Parameterization	FDT/DTM
Transmission Physics	3-wire physics
Transmission Rate	COM2/38.4 kbps
Process Data Width	16 bit
Measured Value	14 bit
Switch Point	2 bit
Frame Type	2-3

Wiring Diagram



Mating Cordset:
RK 4.4T-*/S618

Drawings

