

# Pressure Instrumentation

## High Accuracy Programmable Pressure Sensor Part Number Key

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

<p><b>Pressure Sensor</b></p> <p><b>Nominal Pressure Range</b></p> <p>01VR = -1 to 0 bar gauge (-14.5 to 0 psi)          001R = 0 to 1 bar gauge (0 to 14.5 psi)          001V = -1 to 1 bar gauge (-14.5 to 14.5 psi)          003V = -1 to 2.5 bar gauge (-14.5 to 36 psi)          010V = -1 to 10 bar gauge (-14.5 to 145 psi)          016V = -1 to 16 bar gauge (-14.5 to 232 psi)          025V = -1 to 25 bar gauge (-14.5 to 362 psi)          040V = -1 to 40 bar gauge (-14.5 to 580 psi)          100R = 0 to 100 bar gauge (0 to 1450 psi)          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)</p>	<p><b>5</b> = Rotatable  <b>3</b> = IP69k</p>	<p><b>LI2UPN</b></p> <p><b>8</b> = 15(18)...30 VDC</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Electrical Output</th> <th style="text-align: left;">Output 1</th> <th style="text-align: left;">Output 2</th> </tr> </thead> <tbody> <tr> <td>2UPN</td> <td>switching output</td> <td>switching output</td> </tr> <tr> <td>LUUPN</td> <td>switching output</td> <td>voltage output</td> </tr> <tr> <td>LI2UPN</td> <td>switching output</td> <td>current/switching output</td> </tr> </tbody> </table> <p><b>Pressure Connection</b></p> <p>01 = G1/4" female thread          03 = 1/4"-18 NPT male thread          04 = G1/4" male thread          05 = 7/16"-20 UNF male thread</p>	Electrical Output	Output 1	Output 2	2UPN	switching output	switching output	LUUPN	switching output	voltage output	LI2UPN	switching output	current/switching output	<p><b>H1141</b></p> <p><b>Connection</b></p> <p>H1141 = 4-pin male, M12x1 (eurofast)          with LED</p>	<p>PRESSURE</p>
Electrical Output	Output 1	Output 2														
2UPN	switching output	switching output														
LUUPN	switching output	voltage output														
LI2UPN	switching output	current/switching output														

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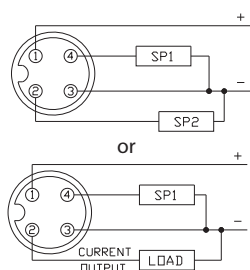
## PS300 Programmable Pressure Sensor Specifications

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 Ω
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 <sub>2</sub> O <sub>3</sub> Ceramic transducer
Operational	
Output	Programmable Current: 0-20 mA, 4-20 mA, 20-0 mA, 20-4 mA 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 Ω

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

Wiring Diagram



Mating Cordset:  
RK 4.4T-\*

### Drawings

