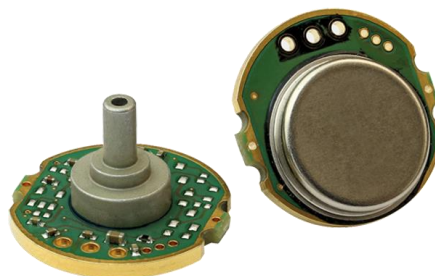


Data sheet

PEWATRON PSPA372 pressure sensor 0...10 bar (g)

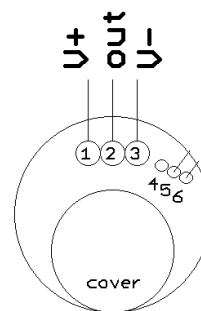
- 1) Wetted components silicon back side, Al, O-ring, no silicone glue
- 2) Measuring volume less than 1 mm³
- 3) Piezoresistive principle, calibrated using mixed signal ASIC, no potentiometer, no laser trimming
- 4) Pressure port – integrated port; PIN's contact
- 5) Pressure port in Aluminium or Stainless Steel/Straight port or Barbed port



<u>Parameter</u>	<u>Min</u>	<u>Typ</u>	<u>Max</u>	<u>Unit</u>	<u>Remark</u>
Pressure range	0		10	bar	1
Pressure type		gauge			
Span		4,00		V	2, 3
Output at FS		4.50		V	2, 3
Output at - 0 bar		0,50		V	2, 3
Accuracy(RT)			0,5	%FS	4
Total error (0°C to + 85°C)			1,0	%FS	4
Total error (-40°C to + 125°C)			2,5	%FS	4
Response time			1,0	ms	5
Power supply (Vs)	4,5	5,0	5,5	V	6
Current supply		7,5	9,5	mA	
Load resistor	2,7			kΩ	
Load capacitor			0.1	μF	
Output resistance			10	Ω	
Output source current	2,0			mA	7
Output sink current	2,0			mA	7
Output ratiometricity	0,9		1,1	%	3, 8
Output noise V _{RMS}			5	mV	
Isolation resistance to case	100			MΩ	9
Over pressure			30	bar	
Burst pressure	60			bar	
Operating temperature	-40		125	°C	
Weight			ca. 15	g	
Mounting direction			all directions		

Remarks:

1. Pin Assignments with voltage output can be seen on the right. Current output assignments are as follows: current loop through Pin 1 and 3, pin 2 is not connected.
2. All parameters guaranteed for specified conditions.
3. Output is calibrated at zero and full scale.
4. The output is ratiometric to the supply voltage (Vs).
5. Total accuracy includes nonlinearity, hysteresis, repeatability and temperature effects in the Compensated range.
6. Measured from initial value to output at 90%..
7. The max. operating supply voltage is 6,5 V, the transmitter is protected against over, reverse and short polarity at 33 V.
8. The output is short protected to Vs and GND.
9. 1% Vs change is creating app. 1% output change .
10. Measured between case and pins (V_{DC} 50 V for one minute).



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