

Pressure

PP471 SICRAM module for the measurement of absolute, relative and differential pressure. It works with pressure probes of the series TP704 and TP705. It gives the instantaneous value and the peak of the pressure. The module is supplied with cable L=2m and 8-pole female DIN 45326 connector.

Accuracy	±0.05% of the full scale (f.s.)
Duration of the peak	≥ 5 ms
Accuracy of peak	±0.5% f.s.
Dead band of peak	≤ 2% f.s.

Pressure probes of the series TP704 and TP705 to be connected to the PP471 module

Full scale pressure	Maximum over-pressure	Resolution	ORDERING CODES			Accuracy from 20 to 25 °C	Working temperature	Connection
			Differential pressure	Relative pressure (with respect to atmosphere)	Absolute pressure			
			NON insulated Membrane	Insulated membrane	Insulated membrane			
10.0 mbar	20.0 mbar	0.01 mbar	TP705-10MBD			0.50 % FSO	0...+60 °C	Tube Ø 5 mm
20.0 mbar	40.0 mbar	0.01 mbar	TP705-20MBD			0.50 % FSO	0...+60 °C	Tube Ø 5 mm
50.0 mbar	100 mbar	0.01 mbar	TP705-50MBD			0.50 % FSO	0...+60 °C	Tube Ø 5 mm
100 mbar	200 mbar	0.1 mbar	TP705-100MBD			0.25 % FSO	0...+60 °C	Tube Ø 5 mm
				TP704-100MBGI		0.25 % FSO	-10...+80 °C	¼ BSP
200 mbar	400 mbar	0.1 mbar	TP705-200MBD			0.25 % FSO	0...+60 °C	Tube Ø 5 mm
				TP704-200MBGI		0.25 % FSO	-10...+80 °C	¼ BSP
400 mbar	1000 mbar	0.1 mbar		TP704-400MBGI		0.25 % FSO	-40...+125 °C	¼ BSP
500 mbar	1000 mbar	0.1 mbar	TP705-500MBD			0.25 % FSO	0...+60 °C	Tube Ø 5 mm
600 mbar	1000 mbar	0.1 mbar		TP704-600MBGI		0.25 % FSO	-40...+125 °C	¼ BSP
1.00 bar	2.00 bar	1 mbar	TP705-1BD			0.25 % FSO	0...+60 °C	Tube Ø 5 mm
					TP705BARO	0.25 % FSO	0...+60 °C	Tube Ø 5 mm
				TP704-1BGI		0.25 % FSO	-40...+125 °C	¼ BSP
					TP704-1BAI	0.25 % FSO	-40...+120 °C	¼ BSP
2.00 bar	4.00 bar	1 mbar	TP705-2BD			0.25 % FSO	0...+60 °C	Tube Ø 5 mm
				TP704-2BGI		0.25 % FSO	-40...+125 °C	¼ BSP
					TP704-2BAI	0.25 % FSO	-25...+85 °C	¼ BSP
5.00 bar	10.00 bar	1 mbar		TP704-5BGI		0.25 % FSO	-40...+125 °C	¼ BSP
					TP704-5BAI	0.25 % FSO	-25...+85 °C	¼ BSP
10.0 bar	20.0 bar	0.01 bar		TP704-10BGI		0.25 % FSO	-40...+125 °C	¼ BSP
					TP704-10BAI	0.25 % FSO	-25...+85 °C	¼ BSP
20.0 bar	40.0 bar	0.01 bar		TP704-20BGI		0.25 % FSO	-40...+125 °C	¼ BSP
					TP704-20BAI	0.25 % FSO	-25...+85 °C	¼ BSP
50.0 bar	100.0 bar	0.01 bar		TP704-50BGI		0.25 % FSO	-40...+125 °C	¼ BSP
					TP704-50BAI	0.25 % FSO	-25...+85 °C	¼ BSP
100 bar	200 bar	0.1 bar		TP704-100BGI		0.25 % FSO	-40...+125 °C	¼ BSP
					TP704-100BAI	0.25 % FSO	-25...+85 °C	¼ BSP
200 bar	400 bar	0.1 bar		TP704-200BGI		0.25 % FSO	-40...+125 °C	¼ BSP
					TP704-200BAI	0.25 % FSO	-25...+85 °C	¼ BSP
500 bar	1000 bar	0.1 mbar		TP704-500BGI		0.25 % FSO	-40...+125 °C	¼ BSP
	700 bar	0.1 mbar			TP704-500BAI	0.25 % FSO	-25...+85 °C	¼ BSP

PP472 SICRAM probe for the measurement of barometric pressure

Measuring range	600...1100 mbar
Resolution	0.1 mbar
Accuracy @ 20 °C	±0.3 mbar
Operating temperature	-10...+60 °C

PP473 S0 SICRAM probe for the measurement of relative pressure with respect to the atmosphere or differential pressure in the range ± 250 Pa. The probe uses a silicon piezoresistive sensor with high accuracy and temperature compensation, which has excellent linearity, repeatability and stability over the time. A special **auto-zero** circuit periodically equalizes the differential pressure at the sensor input and corrects the offset; this feature makes the probe insensitive to the mounting position and compensates the sensor aging and the deviation of the zero with temperature changes, virtually eliminating maintenance operations. A typical application of the probe is clean rooms monitoring.

Measuring range	± 250 Pa (± 2.5 mbar)
Maximum overpressure	50 kPa
Resolution	0.1 Pa
Accuracy @ 25 °C	± (0.2 Pa + 1.5% of the measure)
Accuracy @ 0...50 °C	± (0.2 Pa + 3% of the measure)
Operating temperature	-10...+60 °C
Response time	0.125 s
Long-term stability	± 0.5% f.s. nominal (1000 h @ 25 °C)
Fluid in contact with the membrane	Non-corrosive dry gas or air
Connection	Ø 5 mm Tube

PP473 S1...PP473 S8

SICRAM probes for the measurement of differential pressure.

Measuring range	S1 =f.s. 10 mbar S2 =f.s. 20 mbar S3 =f.s. 50 mbar S4 =f.s. 100 mbar S5 =f.s. 200 mbar S6 =f.s. 500 mbar S7 =f.s. 1 bar S8 =f.s. 2 bar
Maximum overpressure	S1,S2,S3 =200 mbar S4 =300 mbar S5,S6 =1 bar S7 =3 bar S8 =6 bar
Accuracy @ 25 °C	S1,S2,S3 =0.5% f.s. S4 =0.25% f.s. S5,S6,S7,S8 =0.15% f.s.
Operating temperature	-10...+60 °C
Fluid in contact with the membrane	non-corrosive dry gas or air
Connection	Ø 5 mm Tube

