



## CPM 602

### Piezoresistive Monolithic Ceramic Pressure Sensor

- Excellent chemical resistance
- Easy mounting
- Pressure ranges  
30 to 6000 psi gauge

#### Standard Pressure Ranges

PSI <sup>1)</sup>	bar	Proof pressure		Admissible negative pressure [PSI <sup>1)</sup> / bar]	Burst pressure		Output signal [mV/V]	
		[PSI <sup>1)</sup> / bar]			[PSI <sup>1)</sup> / bar]			
30	2	60	4	vacuum resistant	120	≥ 8	1.8 to 3.4	
75	5	150	10		300	≥ 20	2.0 to 3.5	
150	10	300	20		525	≥ 35	2.4 to 4.0	
300	20	600	40		900	≥ 60	2.8 to 4.2	
750	50	1500	100		2100	≥ 140	2.7 to 4.0	
1500 <sup>3)</sup>	100	2250	150		4500	≥ 300	2.0 to 3.2	
3000 <sup>3)</sup>	200	4500	300		6000	≥ 400	1.8 to 3.3	
6000 <sup>3)</sup>	400	7500	500		9750	≥ 650	1.5 to 3.0	
other on request								

#### Reference Conditions

Supply voltage	2 to 30 V <sub>DC</sub> stabilized (I <sub>max.</sub> = 4mA)
Bridge resistance	11 kΩ ± 30 %
Reference temperature	25 °C
Measuring supply voltage	10 V <sub>DC</sub>

#### Performance Characteristics

Offset	- 0.4 to 0.0 mV/V (Other nominal values available on request)
Total error (non-linearity, hysteresis, non-repeatability)	Pressure ranges: ≤ 750 psi: ≤ ± 0.4 % FS (terminal based) Pressure ranges: > 750 psi: ≤ ± 0.8 % FS typ. (1.5 % FS max.) (terminal based)
Long term stability	≤ ± 0.3 % FS/ year (at reference conditions)
TC Offset (TC0)	≤ ± 0.02 % FS / °C <sup>2)</sup>
TC Span (TCS)	≤ - 0.012 % FS / °C <sup>2)</sup>

#### Environmental Specification

Temperature range	- 40 to 135 °C
Storage temperature range	- 50 to 150 °C
Compensated temperature range	0 to 85 °C

1) PSI values around rounded and for reference only

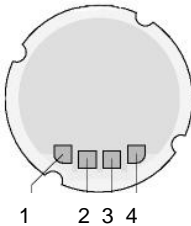
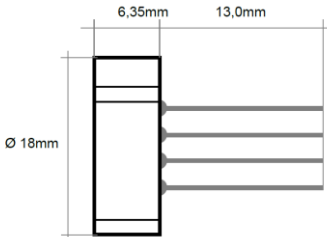
2) Over compensated temperature range

3) Only sealed gauge available

# CPM-602

Ceramic Pressure Sensor

Specifications

Electrical connection	
Standard	Pins, pitch 0.1 inch / 2.54mm
Miscellaneous	
Media wetted parts	Ceramic Al <sub>2</sub> O <sub>3</sub> 96 %
Weight	approx. 5 g
Dimension	Ø = 18 ± 0.1 mm    d = 6.35 ± 0.1 mm
Mechanical	
<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  <p>1    2    3    4</p> </div> <div style="text-align: center;"> <p>1    + IN 2    - OUT 3    GND 4    + OUT</p> </div> <div style="text-align: center;">  <p>Ø 18mm</p> <p>6,35mm    13,0mm</p> </div> </div>	

Ordering code			
CPM602 <span style="border: 1px solid black; padding: 0 2px;"> </span> - <span style="border: 1px solid black; display: inline-block; width: 20px; height: 15px; vertical-align: middle;"></span> <span style="border: 1px solid black; display: inline-block; width: 20px; height: 15px; vertical-align: middle;"></span> <span style="border: 1px solid black; display: inline-block; width: 20px; height: 15px; vertical-align: middle;"></span> <span style="border: 1px solid black; display: inline-block; width: 20px; height: 15px; vertical-align: middle;"></span> <span style="border: 1px solid black; display: inline-block; width: 20px; height: 15px; vertical-align: middle;"></span> <span style="border: 1px solid black; display: inline-block; width: 20px; height: 15px; vertical-align: middle;"></span> <span style="border: 1px solid black; display: inline-block; width: 20px; height: 15px; vertical-align: middle;"></span> <span style="border: 1px solid black; display: inline-block; width: 20px; height: 15px; vertical-align: middle;"></span>			
Type of pressure	gauge	G	
Pressure ranges	30 psi / 2 bar	0 3 0	
	75 psi / 5 bar	0 7 5	
	150 psi / 10 bar	1 5 0	
	300 psi / 20 bar	3 0 0	
	750 psi / 50 bar	7 5 0	
	1500 psi / 100 bar	1 K 5	
	3000 psi / 200 bar	3 K 0	
	6000 psi / 400 bar	6 K 0	
Electrical connection	Solder pads tinned, pitch 0.1 inch / 2.54mm <sup>4)</sup>	2 0 1	
	Pins, pitch 0.1 inch / 2.54mm	2 0 2	
	Others – on request	9 9 9	
Options	Standard		0 0 1

4) minimum order quantity required

This data sheet contains product specifications, properties are not guaranteed. Subject to be change without notice.