



## 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<br>[PSI <sup>1)</sup> / bar] | Burst pressure            |       | Output signal<br>[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<br>(non-linearity, hysteresis, non-repeatability) | Pressure ranges: ≤ 750 psi: ≤ ± 0.4 % FS (terminal based)<br>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

