

## HIGH PRESSURE SENSOR 1/4"

### CT-MPM5

- PIEZORESISTIVE SILICON CHIP
- PERFECT LONG TERM STABILITY
- EMC PROTECTION
- POLARITY PROTECTION
- CE CERTIFIED



### Performance parameters

|                       |                                                                                        |
|-----------------------|----------------------------------------------------------------------------------------|
| Pressure range        | -100kPa...0...60MPa                                                                    |
| Pressure reference    | Gauge pressure, Absolute pressure, Sealed gauge pressure                               |
| Accuracy              | 0.5%F.S.                                                                               |
| Hysteresis            | 0.1%F.S.                                                                               |
| Repeatability         | 0.1%F.S.                                                                               |
| Temp. drift           | ±1.5%F.S. (-20°C ~ 85°C)                                                               |
| Response time         | ≤90ms(up to 90%F.S.)                                                                   |
| Overload pressure     | (Refer to "Pressure range selection" on page 4.)                                       |
| Service life          | ≥10 <sup>6</sup> pressure cycles                                                       |
| Ambient temp.         | -40°C ~ 85°C                                                                           |
| Medium temp.          | 115- (0.35×Ambient temp.)°C                                                            |
| Storage temp.         | -40°C ~ 125°C                                                                          |
| EMC                   | Immunity: IEC 61000-6-2, Radiation: IEC 61000-6-3                                      |
| Insulation resistance | ≥100MΩ/250VDC                                                                          |
| Vibration resistance  | Sine curve: 20g, 25Hz~2kHz; IEC 60068-2-6<br>Random: 7.5grms, 5Hz~1kHz; IEC 60068-2-64 |
| Shock resistance      | Shock: 20g/1ms; IEC 60068-2-27<br>Free fall: 1m; IEC 60068-2-32                        |
| Protection            | IP65                                                                                   |
| Surge                 | IEC 61000-4-5 level 1                                                                  |
| Withstand voltage     | 500V/AC 1min, 1000V/AC 1min(optional)                                                  |
| Static electricity    | IEC 61000-4-2 level 2                                                                  |
| Medium compatibility  | All media which are compatible with stainless steel 316L                               |
| Hex nut               | HEX27                                                                                  |
| Ex-proof grade        | Intrinsic safety ex-proof Ex ia II C T6 (only for 4~20mA)                              |
| Net weight            | 130g±20g                                                                               |