

## MPT281 LED digital pressure sensor

MPT281 Pressure sensor

Model: MPT281

Category: Pressure sensor

Range: 0-2000bar

Temperature: -40~+125°C

Signal output: mv/v, 0-5vdc, 4-20Ma, RS485

Application: Industrial process measurement and control; Automation detection systems; Hydraulic and pneumatic control systems; Pump stations and water treatment systems; Industrial machinery manufacturing; Water, oil, air and hydraulic pressure measurement

Keywords: Pressure sensor, Pressure sensor



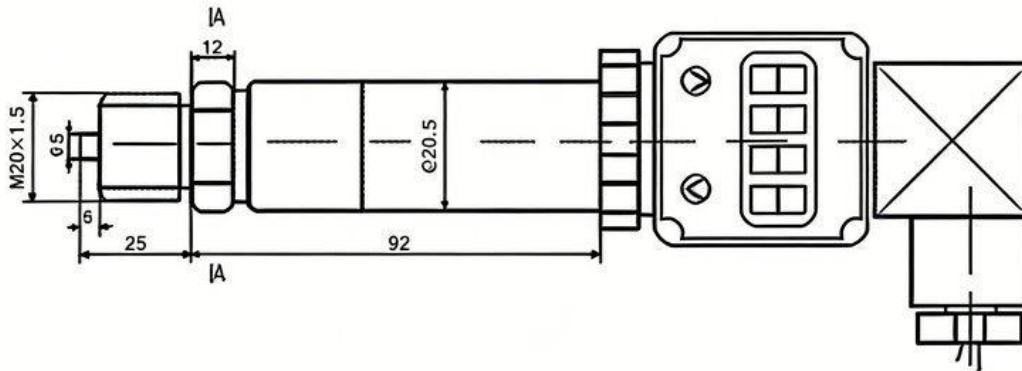
MPT281 (3)

### Technical specifications

0~10Kpa.....100Mpa



|                                            |                                                                                                         |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Pressure type                              | Gauge, absolute                                                                                         |
| Analog signal output                       | Mv/v, 0-5V;0-10V;0.5-4.5V;4~20mA                                                                        |
| Digital signal output                      | RS232, RS485, HART, wireless                                                                            |
| Control signal output                      | PNP, NPN, RELAY                                                                                         |
| Local indication                           | LCD, LED,                                                                                               |
| (mA/v)                                     | Pressure transmitter: 0~5V; 0~10V; 4~20Ma.<br>Pressure sensor: 1mV/V; 2mV/V,2.5mV/V,3.3mV/V ,<br>10mv/v |
| Operating voltage (V)                      | 24VDC (9~36V)- For 4-20mA and 0-10V;<br>5VDC-For 0.5-4.5V;<br>12VDC-For 0-5V; 0-10V                     |
| Accuracy (%FS)                             | 0.1, 0.2,0.3                                                                                            |
| Repeatability (nonlinearity)(%FS)          | $\leq 0.1 \leq 0.2 \leq 0.3$                                                                            |
| Zero drift (%FS/4h)                        | $\leq 0.05 \leq 0.1 \leq 0.2$                                                                           |
| Temperature drift(zero & delicacy)(%FS/°C) | $\leq 0.005 \leq 0.01 \leq 0.02$                                                                        |
| Long term stability (%FS/year)             | $\leq 0.1; \leq 0.3$                                                                                    |
| Temperature compensation (°C)              | -20~+60                                                                                                 |
| Operating temperature (°C)                 | -20~+85                                                                                                 |
| Storage temperature                        | -40~+125                                                                                                |
| Safe overload (%)                          | 300                                                                                                     |
| Service life                               | $> 1 \times 10^8$ (25°C)                                                                                |
| Load resistance ( $\Omega$ )               | $R = (U - 12.5) / 0.02 - R_D$ U=,RD=                                                                    |
| Response time (ms)                         | $\leq 1$                                                                                                |
| Medium                                     | Compatible with 316L                                                                                    |
| Material                                   | 316L                                                                                                    |
| Thread                                     | M: M20×1.5, NPT: 1/8NPT,1/2NPT, G: G1/2 or Custom                                                       |
| Explosion-proof                            | NA                                                                                                      |
| Digital display                            | 4 bit LED                                                                                               |
| Dimensions                                 | REFER TO SPECIFICATION                                                                                  |



Product Dimensions

### Pressure sensor measurement solution

#### • MPT200



- Application: gas liquid pressure, water knife cutting pressure, high temperature pressure, anti-corrosion pressure, plane membrane pressure measurement



Product Solution