



bar **MPM4530**

#### FEATURES

- Full welded sensor with pressure port; protection IP65;
- Stainless steel contacting with media, good corrosive resistance;
- High, low and common temperature measurement, good long-term stability;
- Good anti-impact, anti-shock ability;
- Wider operation temperature range



**MICROSENSOR**

AUTHORIZED DISTRIBUTOR

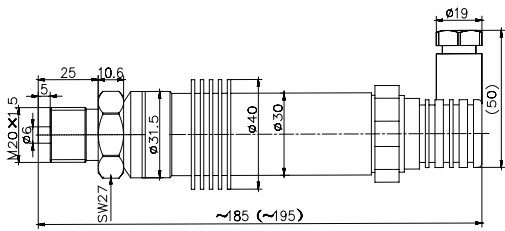
MPM4530 transmitter uses high temperature pressure sensor as sensing element. The media is transferred onto sensor through heating cooling parts, and high accuracy amplified circuit board is in stainless steel housing, transmitting sensor signal into standard output signal. The whole product is produced through components making, semi-finished product and all-finished product strict testing and aging, having stable and reliable performance. The transmitter is widely used for high and low measurement and control of food, medicine, power station, engineering, automobile, ship manufacture, petroleum, metallurgy, steam and heat exchanging, aviation, spaceflight, and scientific research and laboratory instrument, etc.

#### SPECIFICATIONS

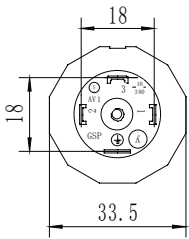
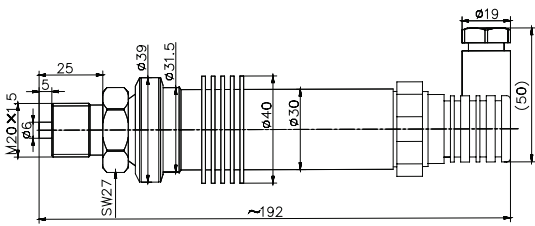
|                           |                                                                    |
|---------------------------|--------------------------------------------------------------------|
| Pressure range            | -0.1MPa...0MPa~0.01MPa...160MPa(G) 0MPa~0.025MPa...60MPa(A)        |
| Over pressure             | 200%FS or 150MPa (min.value is valid)                              |
| Media                     | liquid or gas which is compatible with stainless steel             |
| Power supply              | 10~30VDC, suggested 24VDC                                          |
| Output signal             | 4~20mADC 2-wire                                                    |
| Load                      | $RL \leq ((U-10)/0.02)(\Omega)$                                    |
| Accuracy                  | $\pm 0.25\%FS$ , $\pm 0.5\%FS$ (including non-lin., rep. and hys.) |
| Thermal error             | $\leq \pm 0.025\%FS/^{\circ}C$ (@25 $^{\circ}C$ )                  |
| Long-term stability       | $\leq \pm 0.5\%FS/year$                                            |
| Endurance                 | 106 pressure cycles                                                |
| Environment temp          | -40 $^{\circ}C$ ~+80 $^{\circ}C$                                   |
| Media temp.               | -40 $^{\circ}C$ ~+150 $^{\circ}C$                                  |
| Relative Humidity         | 0~90%RH                                                            |
| Protection                | IP65                                                               |
| Response frequency        | >1kHz                                                              |
| Insulation                | 100M $\Omega$ , 50VDC                                              |
| Pressure port and housing | stainless steel 1Cr18Ni9Ti                                         |
| Wiring plug               | Hirschmann plug                                                    |

OUTLINE DIMENSIONS (UNIT:mm)

G(P<16kPa) Construction



G(P≥16kPa) And A Construction



ELECTRICAL CONNECTION

| Current output (4~20mADC) | Pin |
|---------------------------|-----|
| (+V)                      | 1   |
| (0V)                      | 2   |
| Null                      | 3   |

ORDER GUIDE

| MPM4530 |          | High-temperature Pressure Transmitter |                      |                                               |                              |          |  |
|---------|----------|---------------------------------------|----------------------|-----------------------------------------------|------------------------------|----------|--|
|         |          | Measurement range                     | 0~0.004MPa...100MPa  |                                               |                              |          |  |
|         |          | [0~X] kPa or MPa                      | X= measurement range |                                               |                              |          |  |
|         |          |                                       | Type code            | Output Signal                                 |                              |          |  |
|         |          |                                       | MSV                  | Pressure range: -0.1MPa...0~0.004MPa...160MPa |                              |          |  |
|         |          |                                       |                      | Code                                          | Output signal                |          |  |
|         |          |                                       |                      |                                               | E                            | 4~20mADC |  |
|         |          |                                       |                      |                                               | Code                         | Others   |  |
|         |          |                                       | C5                   |                                               | M20×1.5 male, waterline seal |          |  |
|         |          |                                       | G                    |                                               | Gauge                        |          |  |
|         |          |                                       | A                    | Absolute (only for type MSV)                  |                              |          |  |
|         |          |                                       |                      |                                               |                              |          |  |
| MPM4530 | [0~2]MPa | MSV                                   | E                    | C5G                                           | the whole spec               |          |  |

Notes:

- 1. Please pay attention that the media should be compatible with contacted material;
- 2. MSV type could provide gauge, absolute measure;
- 3. If the user has special requirement, please feel free to contact our company.