

Pressure Sensor AP500K

- Suitable to measure dynamic air gauge pressure;
- Small size, M5× 0.5 mounting;
- Measurement range absolute 500kPa;
- Response time<0.1ms;
- Anti-shock>100g.



Pressure sensor AP500K, based on piezo resistance effect, zero at ambient, includes a full bridge circuit. There is resistance changed by measuring different air pressure, then the voltage signal can be converted according to the resistance difference. The reasonable MEMS process makes the sensor good linearity performance and stability. The sensor includes wear-resisting cable with default length 8m. The LEMO connector and Dallas ID are optional.

Technical Specification (5V, 25°C):

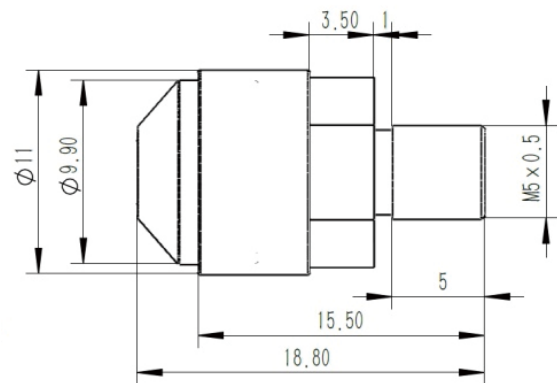
| Name | Unit | Value |
|--------------------|-------|-----------------|
| Meas. Range | kPa | 500 |
| Over Load | kPa | 750 |
| Non-linearity | %FS | ≤± 0.5 |
| Response Freq. | kHz | DC-10 |
| Offset | mV | <50 |
| Warm Up | ms | <50 |
| Excitation Voltage | VDC | 5 |
| Power Current | mA | <10 |
| Anti-Shock | g | >100 |
| Isolation | MΩ | >100 |
| Operation Temp. | °C | -20~70 |
| Storage Temp. | °C | -40~125 |
| Case Material | / | Stainless Steel |
| Weight | grams | 2.5 |
| Dimension | mm | 18.8× 11.0 |

Default Cable Length 8m;

Connector and ID as required;

Other mounting screws are optional.

Drawing Reference:



Wire Assignment:

| | |
|--------|----------------|
| Red | Excitation+ |
| Black | Excitation- |
| White | Signal- |
| Green | Signal+ |
| Shield | Connector Case |