

Vacuum Absolute Pressure Sensor

Model: MD-PS002-150KPaA



Features:

- Economical and compact;
- Chip surface coating protection to prevent moisture, dust, etc. from affecting the chip;
- The pressure interface is made of stainless steel, which can withstand pressure;
- The pins are clearly defined for easy connection;
- A variety of ranges are available.

Specifications:

- **Range:** 150kpa (absolute pressure) pressure range from vacuum (0 pressure) to 50kpa above atmospheric pressure
- **Remark:** 15psi is range. It can measure vacuum (-100kpa), it can also be used to measure positive pressure, and it can also be used for composite range (positive and negative pressure detection).
- **Output:** mV signal
- **Power supply:** 5VDC or constant current 1Ma
- **Linear accuracy:** 0.25%FS

Technical Indicators:

- Zero output $\pm 8\text{mV/v}$ / $\pm 10\text{mV/v}$
- Full scale output of 65-115mV / 75-125mV / 170-280mV
- Linearity of $\pm 0.20\%$ FSO / $\pm 0.25\%$ FSO
- Hysteresis and repeatability of $\pm 0.10\%$ FSO
- Zero temperature coefficient of $\pm 30 \mu\text{v/v}/^\circ\text{C}$
- Resistance temperature coefficient of $0.30\%/^\circ\text{C}$
- Temperature coefficient sensitivity of -20% FSO/ $^\circ\text{C}$
- Zero Thermal Hysteresis $\pm 0.10\%$ FSO
- Long-term stability of $\pm 0.20\%$ FSO

Application areas:

1. **Automobile:** tire pressure gauge, vehicle air pump, MAP sensor, diagnostic instrument, steam engine and suspension control, automobile sensor.
2. **Industry:** pressure switches and controllers, air brake switches, cable leak detection, portable pressure gauges.
3. **Medical treatment:** patient monitoring and diagnostic equipment, blood pressure monitors.
4. **Scientific research:** aerodynamic miniature absolute pressure sensor.

Made in China