

HIKMICRO

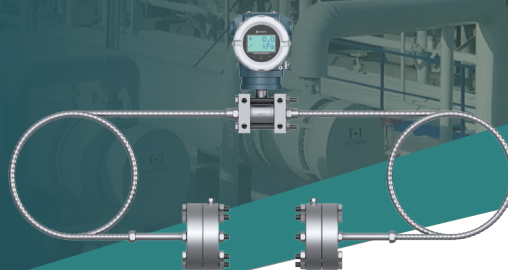
PRESSURE TRANSMITTER



HIKMICRO PS0 series pressure transmitter converts the sensed pressure signal into a measurable electrical signal through the piezoresistive effect. It is mainly divided into three categories: gauge pressure, absolute pressure, and differential pressure. It has been widely used in pressure, and liquid level measurement in industries such as water management, chemical, medicine, life sciences, pulp & paper, food & beverages.



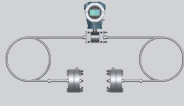
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Benefits

- The central sensing unit adopts the world's leading high-precision single-crystal silicon technology, platinum grade $\pm 0.05\%$.
- Double overload protection diaphragm design, one-way overpressure up to 40MPa.
- The optimal static pressure error is within $\pm 0.05\%/10\text{MPa}$, which is far beyond the reach of capacitive products in the same situation.
- The optimal temperature performance is within $\pm 0.04\%/10\text{K}$, and the temperature effect is minimal.
- The maximum range ratio adjustment is 100:1, which provides wider adaptability.
- Long-term drift: $\pm 0.15\%/10$ years;
- Power supply influence: $\pm 0.001\%/10\text{V}$ (12-36V DC), negligible;

Differential Pressure Transmitter

					
Series	PS00-C(XA)	PS00-A/B/C	PS0A	PS0B	PS0G
Pressure Type	Micro Differential Pressure	Standard Differential Pressure	Diaphragm Sealed Flanged Mount	Diaphragm Sealed Threaded Mount	Diaphragm Sealed Level Pressure
Pressure Range	0-1KPa	0-3MPa	0-3MPa	0-3MPa	0-3MPa
Range Ratio	0-1KPa	100:1	/	/	/
Accuracy	0.1 %	0.05 %, 0.075 %, 0.1 %, optional	0.2 %	0.2 %	0.2 %
Long-term Stability	± 0.25% URL/10 years	± 0.15% URL/10 years	/	/	/
Output Signal	4-20mA , HART communication/485 - Modbus communication (optional)				

Gauge Pressure Transmitter

				
Series	PS01	PS03	PS0C	PS0E
Pressure Type	In-Line Mount	Traditional-mount	Diaphragm Sealed Flanged Mount	Diaphragm Sealed Threaded Mount
Pressure Range	0-60MPa	0-60MPa	0-40MPa	0-40MPa
Range Ratio	100:1	100:1	/	/
Accuracy	0.05%, 0.075%, 0.1%, optional	0.05 %, 0.075 %, 0.1 %, optional	0.2 %	0.2 %
Long-term Stability	± 0.15% URL/10 years	± 0.15% URL/10 years	/	/
Output Signal	4-20mA , HART communication/485 - Modbus communication (optional)			

Absolute Pressure Transmitter

				
Series	PS02	PS04	PS0D	PS0F
Pressure Type	In-Line Mount	Traditional-mount	Diaphragm Sealed Flanged Mount	Diaphragm Sealed Threaded Mount
Pressure Range	0-3MPa	0-3MPa	0-3MPa	0-3MPa
Range Ratio	100:1	100:1	/	/
Accuracy	0.05%, 0.075%, 0.1%, optional	0.05 %, 0.075 %, 0.1 %, optional	0.2 %	0.2 %
Long-term Stability	± 0.15% URL/10 years	± 0.15% URL/10 years	/	/
Output Signal	4-20mA , HART communication/485 - Modbus communication (optional)			