

HC-20 Universal pressure sensors/transmitters

Product Introduction:

The HC-20 series pressure sensor adopts advanced microfabricated silicon film as the core component, high-precision integrated pressure resistance sensing element, isolation film made of Hastelloy alloy, shell made of stainless steel, and international advanced manufacturing and packaging technology. The product has a small volume, compact structure, light weight, durability, excellent dynamic and static characteristics and reliability, and the range, external dimensions, pressure interface Electrical interfaces can be customized according to customer requirements.



Features of Product:

- ◇ Wide range: can choose any range between -100KPa and 100MPa;
- ◇ High accuracy: up to 0.02% FS can be achieved;
- ◇ Silicon chip: Silicon sensitive components have excellent corrosion resistance, impact resistance, overload resistance, vibration resistance, and wear resistance;
- ◇ Temperature range: from low temperature -40 °C to high temperature 120 °C (special can reach +175 °C);
- ◇ Strong adaptability: Good long-term stability, resistant to various harsh environments;
- ◇ Strong protection: Customized waterproof grade IP68, can be used in water for a long time;
- ◇ Customizable: Range size, external dimensions, performance parameters, accuracy level, output type, cable length and other parameters can all be customized.

Application of Product:

- ◇ Equipment automation
- ◇ Pump and compressor
- ◇ Internal combustion engine
- ◇ Hydraulic and pneumatic
- ◇ Engineering machinery
- ◇ Energy system
- ◇ Aerospace
- ◇ Air conditioning equipment
- ◇ Medical equipment
- ◇ Water treatment
- ◇ Locomotive brake system
- ◇ Scientific research

Product Parameters:

Measuring range	-100KPa~100MPa(Choose between -100Kpa~100Mpa)
Overloading capacity	1.2~5 times FS (Overload is determined by the range) 1.2~5 times FS
Pressure type	Gauge , absolute, sealed gauge, differential pressure
Medium to be measured	The gas or liquid compatible with 316 stainless steel
Accuracy	±0.02%FS, ±0.1%FS, ±0.2%FS, ±0.3%FS
Response time	≤2 ms
Long term stability	Typical: ±0.1% FS /year,Maximum: ±2%FS/year
Operation temperature	-40°C~85°C (generally),-40°C~125°C(Specially)
Compensation temp	-20~60°C
Supplying	12-32VDC (usually 24VDC), power supply voltage can be customized
Signal output	mV、4~20mA、0~5VDC、RS485、Customized
Insulation resistance	≥ 1000M Ω (at 100VDC)
Enclosure protective	Customizable protection level IP68
Port and enclosure	Stainless steel(1Cr18Ni9Ti)

产品选型:

HC-20	Universal pressure sensors/transmitters									
	Code	Type of pressure								
	g	Gauge pressure								
	sg	Sealing gauge pressure								
	a	Absolute pressure								
	d	Differential pressure								
	Range	Choose any measurement range between -100KPa and 100MPa								
	Code	Cable length (optional)								
	L1	Standard configuration 3m								
	L2	Custom length								
	Code	Overall accuracy(linear+repeatability+lagging)								
	1	$\pm 0.3\%FS$								
	2	$\pm 0.2\%FS$								
	3	$\pm 0.1\%FS$								
	4	$\pm 0.02\%FS$								
	Code	Signal Output								
	A1	4~20mA								
	V1	mV output								
	V2	0~5V								
	RS	RS485								
	V0	Customized output signal								
	Code	Additional functions								
	F1	M20*1.5 external thread								
	F2	M20*1.5 internal thread								
	F3	G1/4 external thread								
	F4	G1/4 internal thread								
	F5	Flat membrane								
	F6	Input type								
	F7	Special customized sensor								
	Code	Electrical interface								
	W1	Hosman with plug								
	W2	Cable waterproof IP67								
	W3	Cable waterproof IP68								
	W0	Customized elec interface								
HC-20 - g- 0~6Mpa - L1 - 2 - V2 - F3 - W1										

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