

# 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:

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

产品选型:

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

Beijing Ruiheng Changtai Technology Co., Ltd./ Address: Room 1413, Building 2, No. 106 Kexing West Road, Changping District, Beijing, China/Postal Code:102208 /Tel:+86 10 60728968 Fax:+86 10 50976396/Mobile(WeChat):+86 15311807298/Email (Skype):bjrhct@163.com