

PM420C Ceramic Piezoresistive Pressure Transmitter

**MAIN FEATURES**

- Measurement accuracy better than +0.5% FSO
- Compact stainless steel housing package
- Protection level | P65
- Multiple electrical connection options
- Imported high-performance thick film ceramic core
- Working temperature -40~125 ° C



**OVERVIEW**

PM420C ceramic capacitive pressure transmitter adopts a pressure resistance sensor core imported from Germany, with a fully stainless steel structure, an ultra wide working temperature range, compact design, and a dedicated valve needle for the pressure port. It is suitable for precise measurement and control of fluid pressure in the air conditioning and refrigeration industry, as well as liquid and gas pressure in various fields.

**SPECIFICATION**

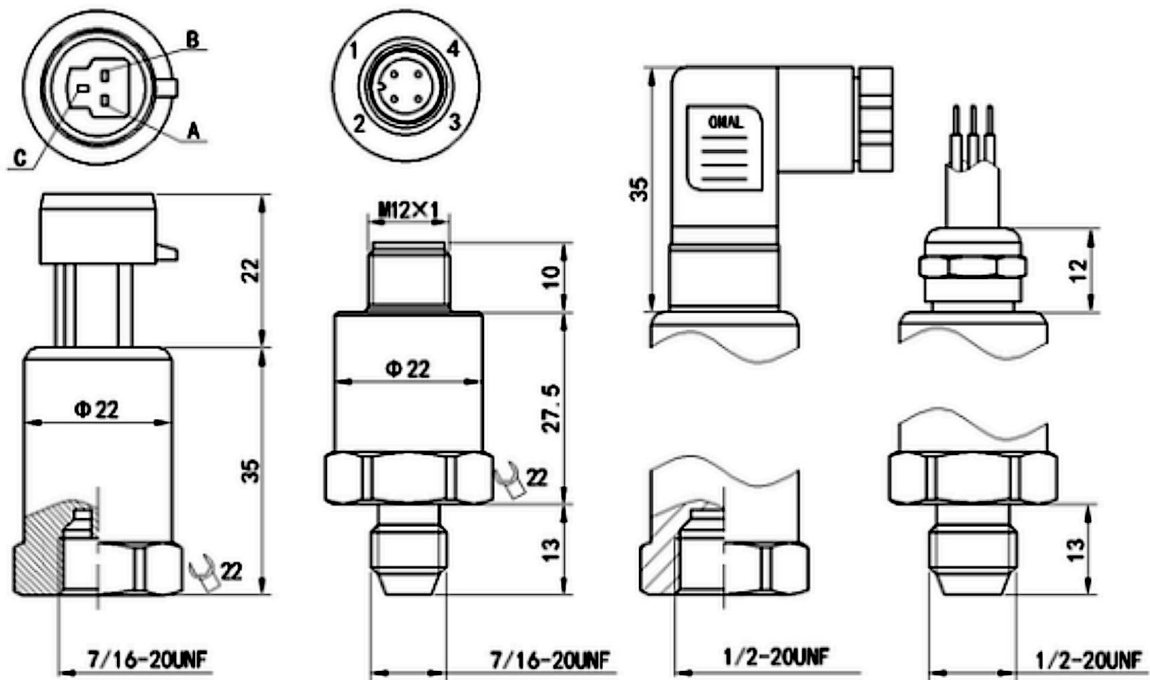
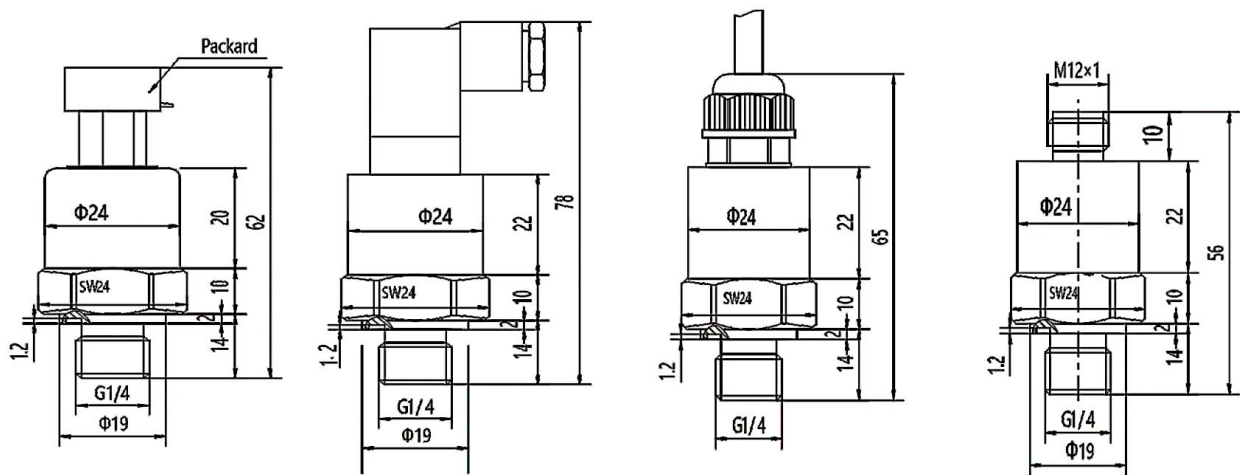
Items	Parameter
Range	0~1bar; 0~400bar
Overload capability	1.5 times full scale
Pressure Type	gauge pressure
Accuracy	0.5% or customized
Long-term stability	±0.2%FS/year
Zero temperature drift	±0.03%FS/°C
Sensitivity temperature drift	±0.04%FS/°C
Compensation temperature	0°C~50°C(≤100kPa), -10°C~70°C(>100kPa)
Medium temperature	-40°C~125°C
Power supply	+12 ~ +36V (Default 24V)
Output Signal	4~20mA, 0~10V, 0~5V, 0.5~4.5V
Load Resistance	4-20mA<1100 Ω; 0-10V>25K Ω
Response time	≤10ms
Measuring medium	All corrosive media compatible with ICr18Ni9Ti material (E)
Diaphragm material	316L stainless steel
Housing material	1Cr18Ni9Ti
Interface	M20×1.5 or customized
Protection level	IP65

**[Safety Alert]**

Installation and disassembly should be carried out under the guidance of professional technicians and in accordance with operating standards. Otherwise, there is a possibility of personal injury, and in severe cases, it may endanger life safety!

## TYPICAL DIMENSION

Unit: mm



## STORAGE &amp; TRANSPORTATION

1. Check whether the instrument is in good condition during transportation, and contact us in time if there is any obvious damage;
2. Packaging and storage Do not remove the packaging before installation;
3. The conditions allowed by the storage place:
  - Storage temperature: -40 ... +70 °C
  - Storage humidity: 45 ... 75 % relative humidity (non-condensing)

**ELECTRIC CONNECTION**

DIN175301-803A	Current	Voltage
	U+	1/Red
	0V	2/Black
	S+	3/Green

DIN175301-803C	Current	Voltage
	U+	1/Red
	0V	2/Black
	S+	3/Green

M12*1	Current	Voltage
	U+	1/Brown
	0V	4/Black
	S+	2/Blue

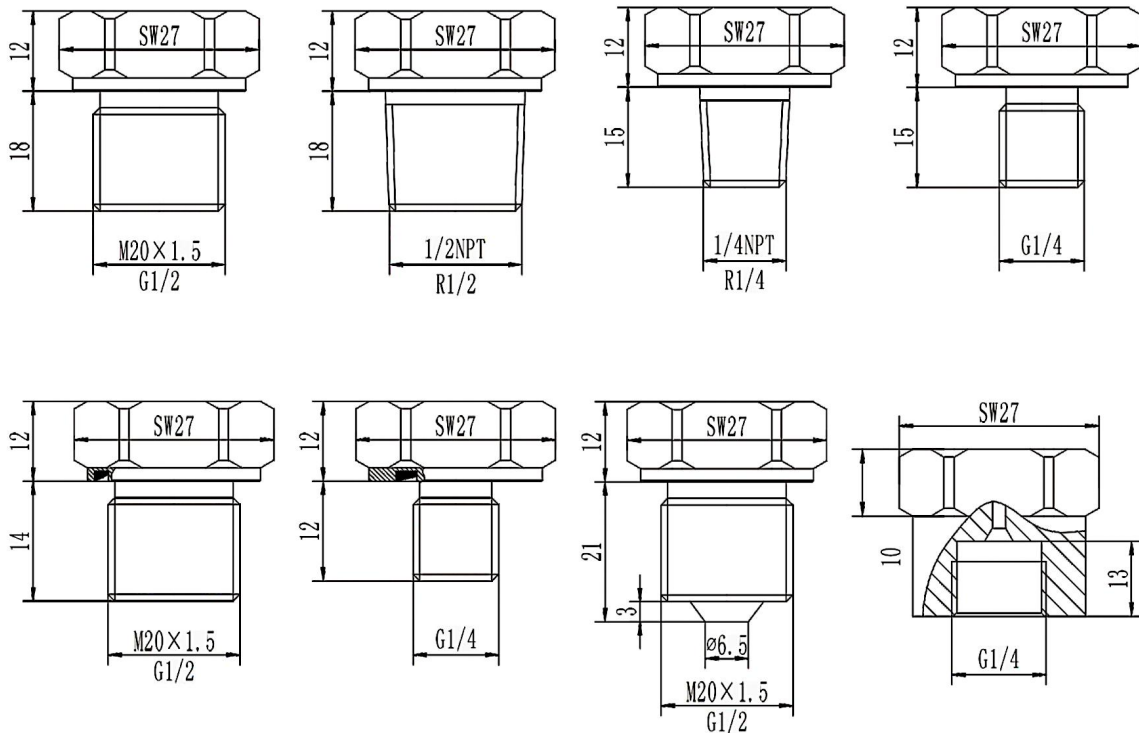
Meric-Pack	Current	Voltage
	U+	B/Red
	0V	A/Black
	S+	C/Green

Direct cable	Current	Voltage
	U+	Red
	0V	Black
	S+	Black

4-20mA/mA+hart	Define	Color
	A	E+
	B	S+
		Red
		Black

**PROCESS CONNECTION**

Unit: mm



**ORDER CODE**

<b>Code:</b>	A	-	B	-	C	-	D	-	E	-	F	-	G
<b>Model:</b>	PM420C	-	S	-	0-50bar	-	S	-	L	-	G 1/2	-	MA

Model	Code A
Hirschmann connection	PM420C-1
M12*1 connection	PM420C-2
Packard connection	PM420C-3
Direct cable connection	PM420C-4
100mm fast pin socket	PM420C-5
Shell Material	Code B
SUS304	S
Brass	B
Pressure Range(X=specific range)	Code C
-0.1MPa ~100MPa	X MPa
-1Bar ~1000Bar	X Bar
-15psi ~15000psi	X psi
Accuracy	Code D
0.5%(standard)	S
Other customized	C
Interface material	Code E
316L	L
Other customized	C

Process connection	Code F
G1/2	G1/2
M20*1.5	M20
G1/4	G1/4
M12*1	M12
M10*1	M10
1/4NPT	1/4NPT
1/2NPT	1/2NPT
R1/4	R1/4
R1/2	R1/2
7/16-20UNF Female	7/16F
7/16-20UNF Male	7/16M
Output signal	Code G
4~20mA	MA
0~10V	V1
0~5V	V5
0~4.5V	V4.5
RS485	RS
More output customized	C

**Remarks:**

1. The structure and types of this series are so much. In order to recommend the most suitable product for you, please specify the use environment and measurement media when consulting.
2. The cable materials are available in PVC, PUR, PE, and ZRPVC. The default is PVC material. If you have special requirements, please specify when ordering.
3. Flat membrane product joint material is 316L, joints are always equipped with M20 × 1.5, G1/2 two types joints. Please consult for special requirements.
4. More other size except above mentioned could be customized according to the drawings provided.
5. LOGO print is available once authorized.