

PM427 Pressure and temperature integrated transmitter

MAIN FEATURES

- Pressure and temperature integration measurement
- Current, voltage, RS485 output signal selectable
- Intrinsically safe explosion-proof, IP68 protection

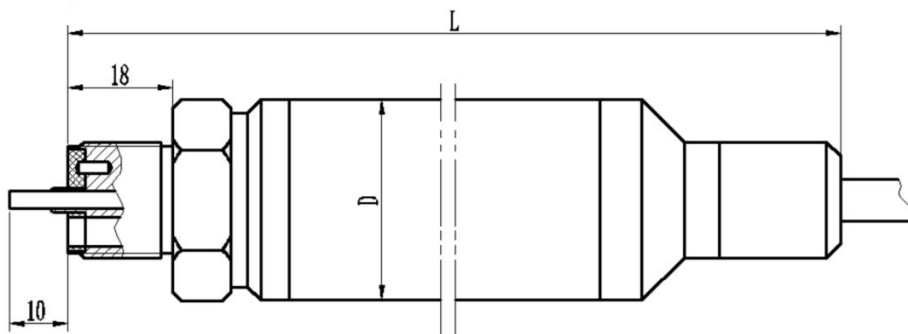


SPECIFICATION

Items	Parameter
Range	-0.1MPa...0kPa~10kPa...10MPa
Overload capability	≤ 2 times full scale
Pressure Type	G (gauge pressure), A (absolute pressure)
Accuracy	0.1% (custom), 0.25% (typical), 0.5% (maximum)
Long-term stability	±0.1%FS/year (typical), ±0.2%FS/year (maximum)
Zero temperature drift	±0.03%FS/°C (≤100kPa), ±0.02%FS/°C(>100kPa)
Sensitivity temperature drift	±0.03%FS/°C (≤100kPa), ±0.02%FS/°C(>100kPa)
Compensation temperature	0°C~50°C (≤100kPa), -10°C~70°C(>100kPa)
Medium temperature	-40°C~80°C
Power supply	12 ~ 30V (Default 24V)
Output signal	4mA~20mA,0V~10V (output range can be customized)
Load Resistance	Current type: ≤ (U-12) / 0.02 (Ω)
Protection level	IP66 (customizable IP68)

TYPICAL DIMENSION

Unit: mm

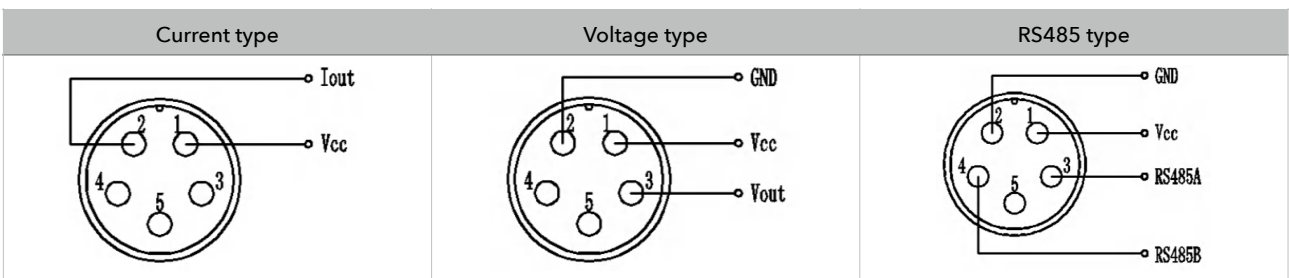


MORE RECOMMENDATION

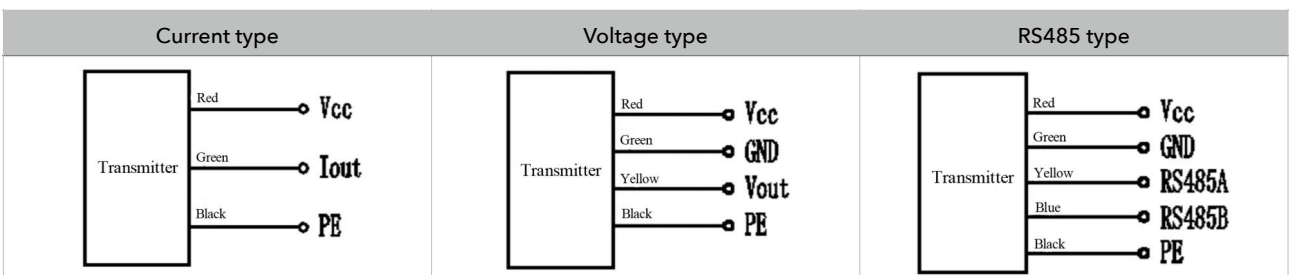
MODEL	FEATURE	OUTLINE CONSTRUCTION
PM4271	<ol style="list-style-type: none"> 1. Temperature probe is exposed, medium pressure and temperature are measured simultaneously 2. Pressure interface G1/2 	
PM4272	<ol style="list-style-type: none"> 1. The temperature sensor built-in type, can test the working environment temperature 2. Pressure interface material can be customized 3. Pressure interface G1/2, M20×1.5 	
PM4273	<ol style="list-style-type: none"> 1. High temperature resistance, temperature probe exposed, medium pressure and temperature are measured simultaneously. 2. Pressure interface material can be customized 3. Pressure interface G1/2, M20×1.5 	

ELECTRIC CONNECTION

• Aviation socket electric connection



• Direct cable connection



ORDER CODE

Code:	A	-	B	-	C	-	D	-	E	-	F	-	G
Model:	PM4271	-	G	-	0-50bar	-	S	-	L	-	G 1/2	-	MA

Model	Code A
Temperature probe is exposed type	4271
Temperature sensor built-in type	4272
High temperature resistance type	4273
Pressure type	Code B
Gauge pressure	G
Absolute pressure	A
Pressure Range(X=specific range)	Code C
-0.1MPa...0kPa~10kPa...10MPa	X MPa
-1Bar ~100Bar	X Bar
-15psi ~1500psi	X psi
Accuracy	Code D
0.1% (custom)	C
0.25%(typical)	T
0.5%(standard)	S
Interface material	Code E
316L	L
Other customized	C

Process connection	Code F
M22*1.5	M22
G1/2	G1/2
M20*1.5	M20
M18*1.5	M18
G3/8	G3/8
M16*1.5	M16
M14*1.5	M14
G1/4	G1/4
M12*1	M12
M10*1	M10
G1/8	G1/8
1/2NPT	1/2NPT
1/2PT	1/2PT
3/8PT	3/8PT
3/8NPT	3/8NPT
1/4NPT	1/4NPT
1/4PT	1/4PT
1/8NPT	1/8NPT
Output signal	Code G
4~20mA	MA
0~10V	V1
More output customized	C

Remarks:

1. When installing PM4271 products, please pay attention to temperature probe protection to prevent bump damage.
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. When working in a flammable and explosive environment, please supply power to the transmitter through the safety barrier.