

PM428 Flat membrane pressure transmitter

MAIN FEATURES

- Pressure Range: 0~10kPa~100MPa
- Stability: ≤ 0.1% FS/year
- Accuracy: ≤ 0.1%FS
- Zero point, full scale output adjustable
- Anti-electromagnetic interference design for harsh environments
- 316L or ceramic diaphragm, strong anti-corrosion
- Intrinsically safe explosion



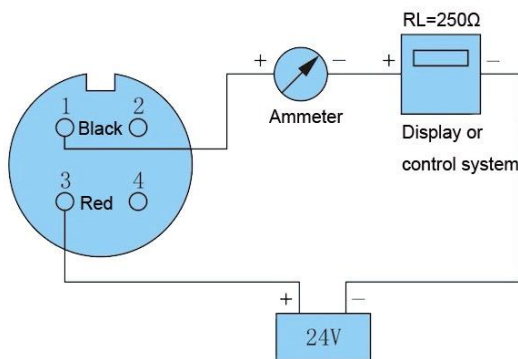
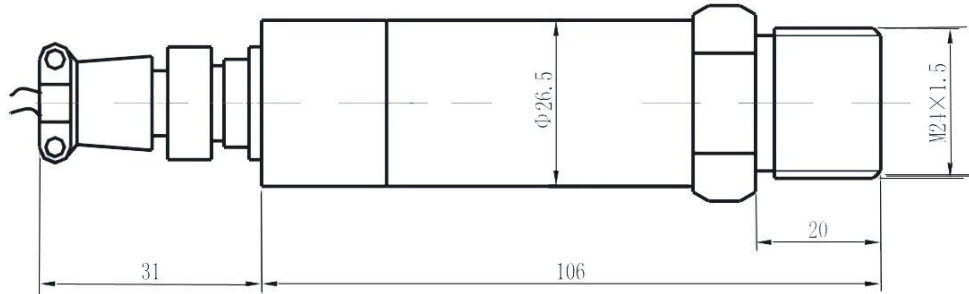
OVERVIEW

PM428 flat membrane pressure transmitter adopts high-precision, high-temperature fixed-performance sensitive chip with imported stainless steel isolation diaphragm. After laser resistance adjustment and certain signal processing, it outputs industrial standard signal 4~20mA or 0~10mA.

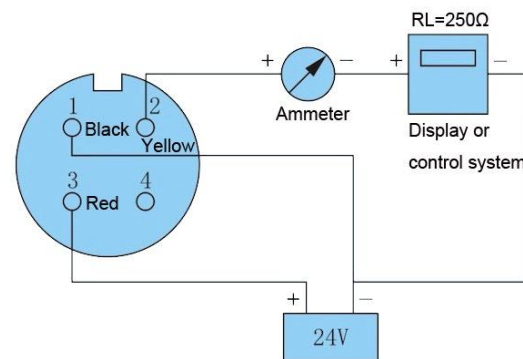
The transmitter is widely used in petroleum, chemical, metallurgy, electric power, environmental protection and other fields for the automatic measurement and control of corrosive gases, liquids, steam gauge pressure and absolute pressure.

SPECIFICATION

Range	0~1000kPa, 0~100Mpa		
Pressure Type	Gauge, Absolute		
Output Signal	4~20mA (1~5V) 2-wire		
	0~10mA (0~5V) 3-wire		
Accuracy	0.1	0.3	0.5
Nonlinear, Hysteresis, Repeatability	≤0.1%FS	≤0.3%FS	≤0.5%FS
Zero drift	≤0.1%FS/4h	≤0.3%FS/4h	≤0.5%FS/4h
Zero point and sensitivity temperature drift	≤0.01%FS/°C	≤0.03%FS/°C	≤0.05%FS/°C
Long-term stability	≤±0.1%FS/year, ≤±0.3%FS/year		
Operating Voltage	+12 ~ +36V (Default 24V)		
Compensation temperature	-20°C~+80°C		
Working temperature	-20°C~+85°C		
Storage temperature	-40°C~+125°C		
Overload capability	300%		
Working life	Pressure cycle >1×10 ⁸ (25°C)		
Load Resistance	(Ω)R=(U-12.5)/0.02-R _D (U=Voltage, R _D =Cable internal resistance)		
Response time	≤1(10~90%)ms		
Measuring medium	corrosive media compatible with 316L		
Diaphragm material	316L stainless steel		
Housing material	1Cr18Ni9Ti		
Interface	M20×1.5 or customized		
Explosion-proof grade	ExiI ICT6		
Protection level	IP67		



2-wire current output wiring connection



3-wire current output wiring connection

ORDER CODE

Code		Description
PM428-		Model code
	B	Anti-corrosion gauge
	G	Anti-corrosion absolute
	FS	Pressure full scale
	I	Current output
	Q	Digital display header
	X	External structure
	Z	Precision
	O	Other requirements