

Pressure Transmitter XY-PTMT100

Typical Feature

- Small size Probe-Shaped design, minimum diameter Φ 3mm
- High-precision maximum accuracy 0.25% FS
- Temperature stability index 0.02%/FS/ °C
- Wide measurement field, even corrosion, easy to crystallize the medium
- Stainless Steel material with fully sealed structure
- Customized structure diversification is available












The Max Diameter 5mm

Brief Introduction

XY-PTMT100 Probe-Shaped Pressure Transmitter has minimum 3mm diameter. Special design and precision machining technology make them with excellent dynamic and static qualities; Stainless steel shell and laser-welded construction, IP65 or IP67 Ingress protection; the ultrathin and small size can be used to specific environment if the work condition is limited about test point size, or need to keep flow distribution. XUYAN offer customized type to against harsh rugged work condition by customer special requirements.

The Probe-Shaped Precision Pressure Transmitter use miniature pressure sensor with excellent performance such as high precision, fast response, small size, light-weight, stable and reliable, strong overload capacity; It is designed for most medium in industry, such as air, oil, water and other fluid; Micro pressure transmitter is mainly applied in the followed situations: aerodynamics, aircraft and engine experiment, wind tunnel experiment, hydromechanics experiment, hydraulic modeling experiment, biomedicine experiment, chemical explosive and nuclear explosive blast experiment; Output 4 ~ 20mA or 0 ~ 5VDC standard electrical signal through regulation device; Measurement Range: 0-5 Kpa, 0-100 Kpa, 0-1000KPa. With thoughtful specialized electric circuit design, it's easy to install in microprocessor intelligent control system; Calibrated by ultra-high precision absolute pressure calibration equipment; Accuracy reach to 0.2%; 0.5%; temperature stability index can be increased to 0.02%/FS/C by sensor temperature self-compensation and specialized circuit debugging.

Suggested Applications

-  Aerodynamics
-  Aircraft & Engine Experiment,
-  Wind Tunnel Experiment,
-  Hydromechanics Experiment,
-  Hydraulic Modeling Experiment
-  Biomedicine Experiment,
-  Chemical Explosive
-  Nuclear Explosive Blast
-  Experiment Specification

More details for XY-PTMT100, please contact us.

Specification

Model	XY-PTMT		
	100	200	300
Gauge Pressure Range	0~5...100...1000KPa	0~5...100...8000KPa	Air pressure 0~20...200KPa Others 0~1...10...50...100MPa
Pressure Type	Gauge Pressure Test		
Measurement Medium	Gas or Liquid with Compatibility of SS 304, SS316 or Silicon		
Accuracy	0.2%FS; 0.5%FS additional conditioning circuit		
Long-Term Stability/Year	±0.2%FS/Year		
Zero Temperature Drift	Typical: ±0.02%FS/°C; Maximum ±0.05%FS/°C		
Sensitivity Temperature Drift	Typical: 0.02% FS / °C; The Maximum: 0.05% FS / °C		
Overload Pressure	200%		
Operation Temperature	-30~80 °C		
Compensation Temperature	-10~70 °C		
Environmental Temperature	-40~ 120 °C		
Power Supply	5VDC		
Overvoltage Protection	≤3X; ≤5X; ≤10X (by Range)		
Signal Output	mV (>30mA@Full Scale)		
Response Time	Depend on measurement range and structure		
IP Protection Class	IP65; IP67		

Performance Parameter

Performance Parameter	A	B	C	D
Non-linear/±%FS	1.00	0.50	0.20	0.1
Non-redundant, hysteria /±%FS	0.20	0.15	0.10	0.04
Zero temperature coefficient/X10 ⁻⁴ /°C.FS	5.00	3.00	2.00	1.00
Sensitivity temperature coefficient/X10 ⁻⁴ /°C.FS	5.00	3.00	2.00	1.00
Zero-time drift/%FS/8h	0.20	0.15	0.10	0.10
Accuracy %FS	1.00	0.50	0.25	0.15

Dimension(mm)

Mode	Size
XY-PTMT100	Φ 3mm-Φ8mm
XY-PTMT200	M5*1-M10*1
XY-PTMT300	Φ 10*5mm-Φ30*10mm

How To Order

XV-PT	G	KF	4M	1	A	P2	M3	B1	T1	L									
	Type	Pressure Connection	Pressure Range	Accuracy	Output	Power	Thread	Electrical Connection	Medium Temperature	Additional									
G	General	None	General	XK (0-XkPa)	1	0.15%	A	4-20mA	P1	5V	M1	M20*1.5	A	HIRSCHMANN	T1	-20~80°C	L	With Display	
GA	Absolute Pressure	P	Diaphragm Seals	XB (0-XBa)	2	0.25%	R	RS485	P2	24V	M2	G1/4	B	Cable Outlet	T2	-20~120°C	I	Explosion-Proof	
DP	Differential Pressure	DP	Differential Pressure	XM (0-XMPa)	3	0.50%	V1	0-10V	P3	12-28V	M3	G1/2	C	Circular Connector	T3	0~150°C			
GR	IoT	KF	Clamp	CC	Customized	4	1.00%	V2	0-5V	P6	12V	M4	1/2NPT	CC	Customized	T9	Customized		
GT	Temperature & Pressure	DN	Flange		9	Customized	V3	0.5-4.5V	P9	Customized	M5	1/4NPT							
MT	Mini Thickness	1210	Explosion Proof				CC	Customized			M7	ZG1/4							
MK	Economic	9999	Customized								M9	Customized							
HF	High Frequency																		
A	Air Conditioning																		
B	Ink Corrosion Resistance																		
C	Air Compressor																		
M	Hydraulic Pressure																		
W	Water Pressure																		

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