

Digital Pressure Transmitter XY-PTGR

Typical Feature

- Low power consumption with battery supply, alternative 24VDC supply
- Output RS485 and alternative Voltage mode
- Maximum Accuracy 0.25%FS
- Weld medium, even corrosion and easy crystallize medium.
- Stainless Steel material with fully sealed structure
- Weld measurement range -0.1~250Mpa, composite range is available
- Customized structure diversification is available.










Brief Introduction

XY-PTGR Digital Pressure Transmitters is a low power consumption vacuum pressure transducer, specially designed for the Internet of Thing, such as fire water pipe network, water supply, heating, etc. The supply power is 3.3V~5V, and maximum operating current should be lower than 2mA.

Stainless steel shell and laser-welded construction, IP65 ingress protection, and safety explosion-proof design allow this vacuum pressure transmitter/transducer to withstand harsh rugged application environments. This product also has excellent performance such as high precision, fast response, small size, light-weight, stable and reliable, strong overload capacity; The IoT pressure transmitter can be applied in most medium, such as air, oil, water and other fluid; RS485 and 0.5-2.5V or 0.5-2.0V standard electrical signal output; Measurement range -100KPa~250MPa, other measurement range is optional. Thoughtful specialized electric circuit design with low power consumption digital pressure transducers, but high accuracy 0.25%;0.5%; Long-term stability $\pm 0.02\%/FS/Year$

XY-PTGR Digital Pressure Transmitters machinal joint include thread, flush diaphragm, clamp, flange, radiator and differential two-way fitting.

Suggested Applications

-  Fire water pipe network
-  Heating
-  Intelligent water pipe net
-  Medical equipment
-  Other application that require battery power
-  More details for XY-PTGR, please contact us.
-  Customized Applications

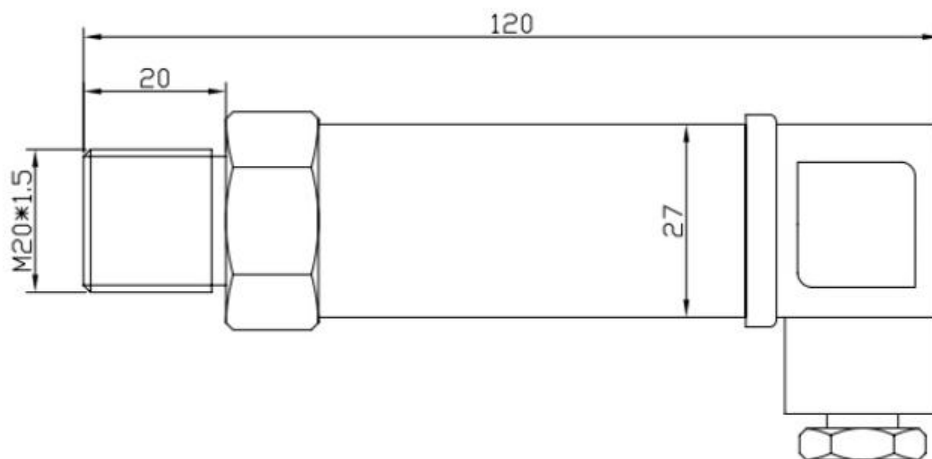
[More details for XY-PTGR, please contact us.](#)

Specification

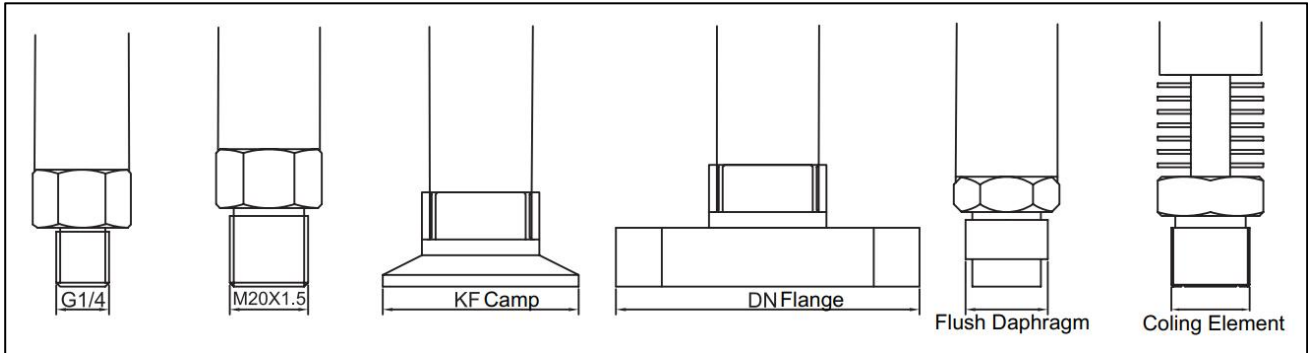
Model	XY-PTGR	
	Voltage Output	RS485 Digital Output

General Pressure Range	0...0.16...0.25...0.4...0.6...1.0...1.6...2.5...5...10...25...40...60MPa	
Micro-pressure Range	0...1...2.5...4...6...10...25...40...60...100KPa	
High-pressure Range	0...100...160...200...250MPa	
Composite Range	-100...-60...-10...-5 ~ 0...5...10...60...100...1000KPa	
Pressure Type	Gauge Pressure Test	
Dimension	Diameter Φ27	
Overload Capacity	200%(≤10MPa); 150%(>10MPa)	
Measurement Medium	Gas or Liquid with Compatibility of SS 304 or SS316	
Output Single	0.5 ~ 2.5V	RS485
Power Supply	3.3V	3.3 ~ 5V
Working Current	0.9mA (Max)	2mA (Max)
Accuracy	0.5% 1%	0.25% 0.5%
Long-Term Stability/Year	Typical: ±0.2% FS/Year	
Zero Temperature Drift	Typical: ±0.02%FS/°C; Maximum ±0.05%FS/°C	
Response Time	≤10ms	
Settling Time	<100ms	
Operation Temperature	-20 ~ 60°C	
Compensation Temperature	0 ~ 60°C	
Load Resistance	≤(U-15)/0.02 Ω	
IP Protection Class	IP65; IP67	

Dimension(mm)



Mechanical Connection(mm)



Electronic Connection

4-20mA(2-Wire)	Input +	Red
	Output+	Black
0-10V,0-5V(3-Wire)	Input +	Red
	Input -	Black
	Output+	Green

How To Order

XY-PT	G	KF	4M	1	A	P2	M3	B1	T1	L	
	Type	Pressure Connection	Pressure Range	Accuracy	Output	Power	Thread	Electrical Connection	diuum Temperatu	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-XBar)	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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