



Datasheet

Pressure Transmitter

AI-XPT40



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### Pressure Transmitter AI-XPT40

AI-XPT40 Series pressure transmitter is kind of device based on pressure layer, which inside expert integrate circuit can transform sensor milli-volt signal to standard far distance transmission current signal, and it can be directly joined with computer joint clip, control instrument, aptitude instrument or PLC etc. conveniently.

#### Applications

- Industrial process control
- Petroleum industry
- Chemical industry
- Paper industry
- Metallurgy

#### Features

- The physical volume small, the weight is light.
- Work in the causticity environment.
- Ingress protection up to IP65.
- The whole stainless steel seals completely the structure, have the very high anti- to flap to pound at the function with anti.

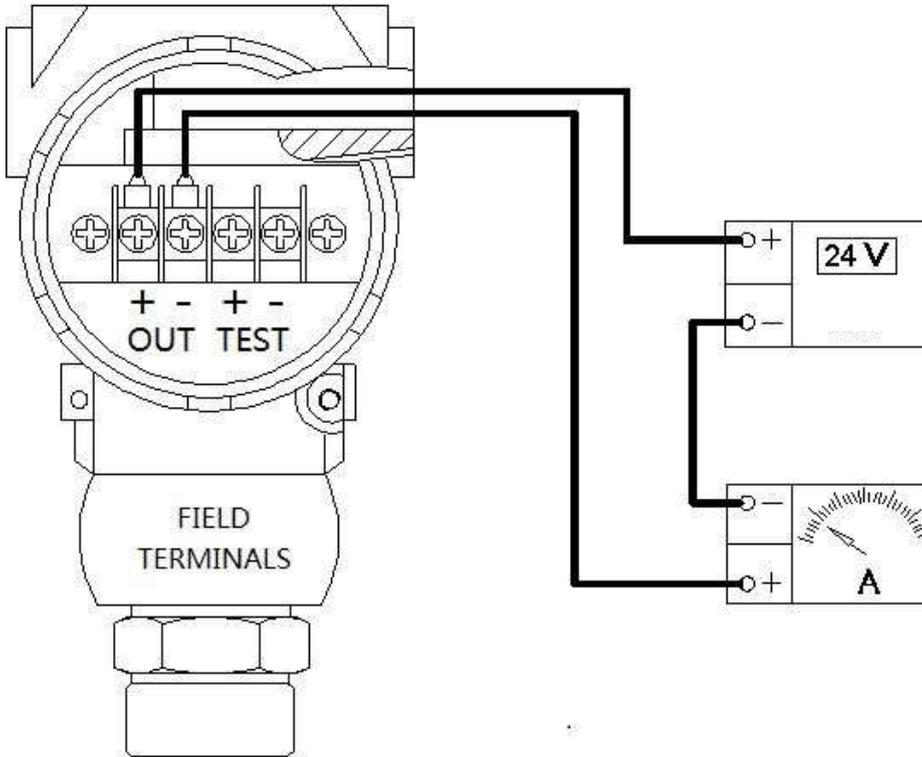


**Pressure Transmitter**

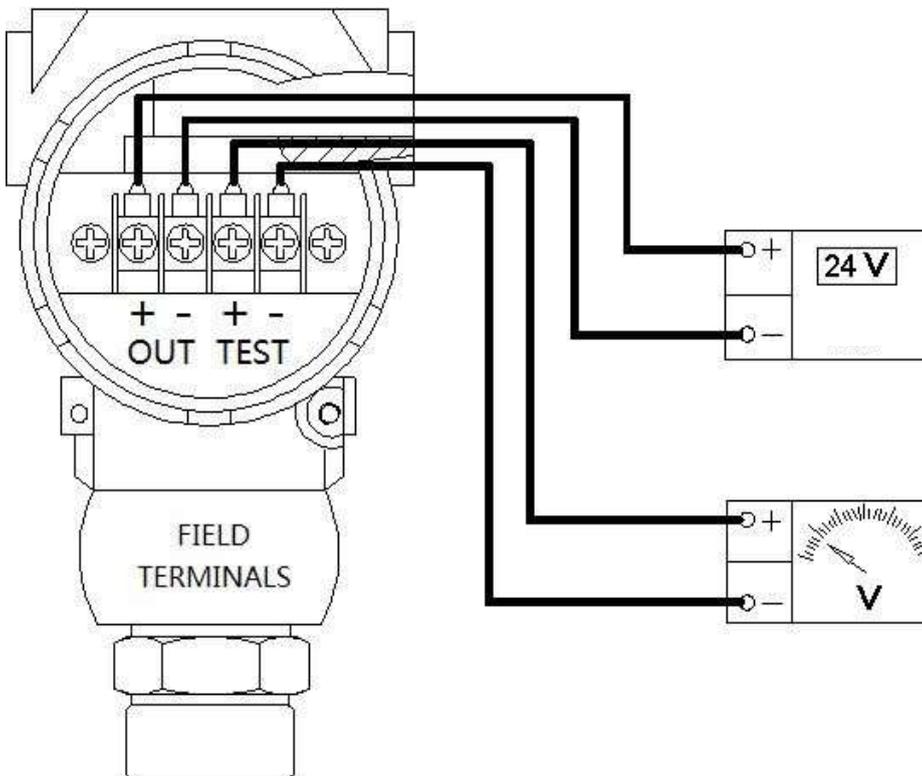
Parameters	
Power Supply	12V~32V ((4~20) mA , with display)
	10V~32V ((4~20) mA+RS485, with display)
Output	9V~32V ((4~20) mA, without display)
	(4~20)mA;(1~5)V;(0~10)V;(0~5)V;RS485
Accuracy	0.2%、0.25%、0.5%
Measurement range	-0.1...0...60Mpa
Pressure type	Gauge pressure, adiabatic pressure and sealed pressure
Compensation temperature	-10℃~70℃
Working temperature	-20℃~85℃
Medium temperature	-20℃~85℃
Storage temperature	-40℃~85℃
Zero-point temperature drift	±0.3%FS/10℃
Sensitivity temperature drift	±0.3%FS/10℃
Overload pressure	(0.035~10)MPa (150%FS) ; (10~60)MPa (125%FS)
Long-term stability	±0.2%FS/year
Response time	RS485 output≤100ms (up to 90%FS)
	Current and Voltage output≤10ms (up to 90%FS)
Insulation	20MΩ/250VDC
Ingress protection	IP65
Load Resistance	(U-9V)/0.02A

## Wiring

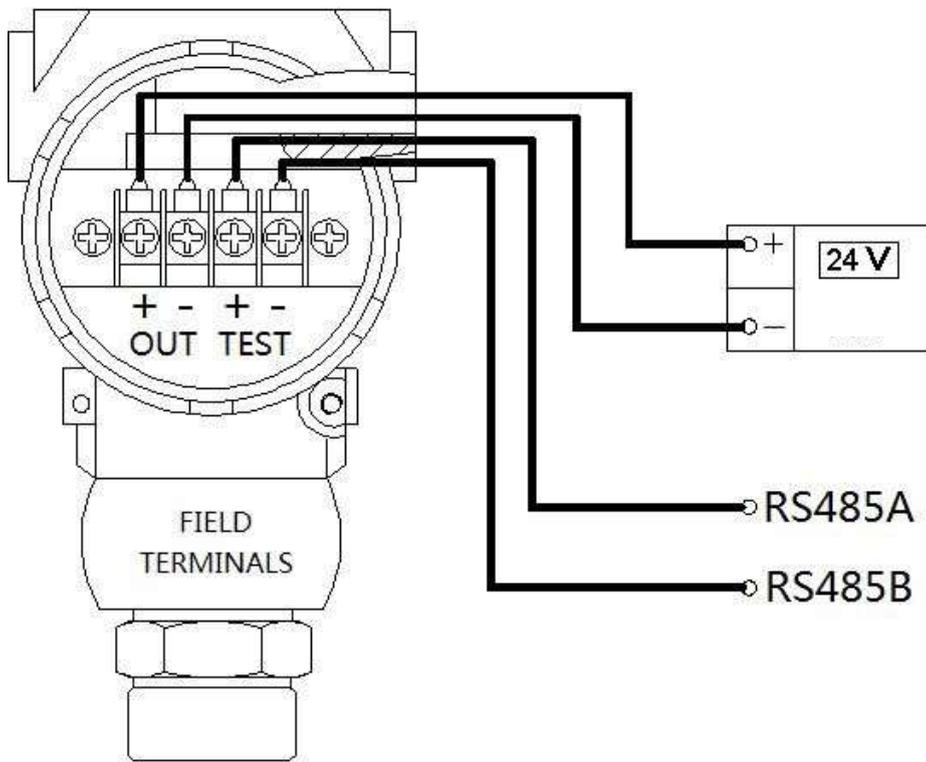
### ■ Current output



### ■ Voltage output

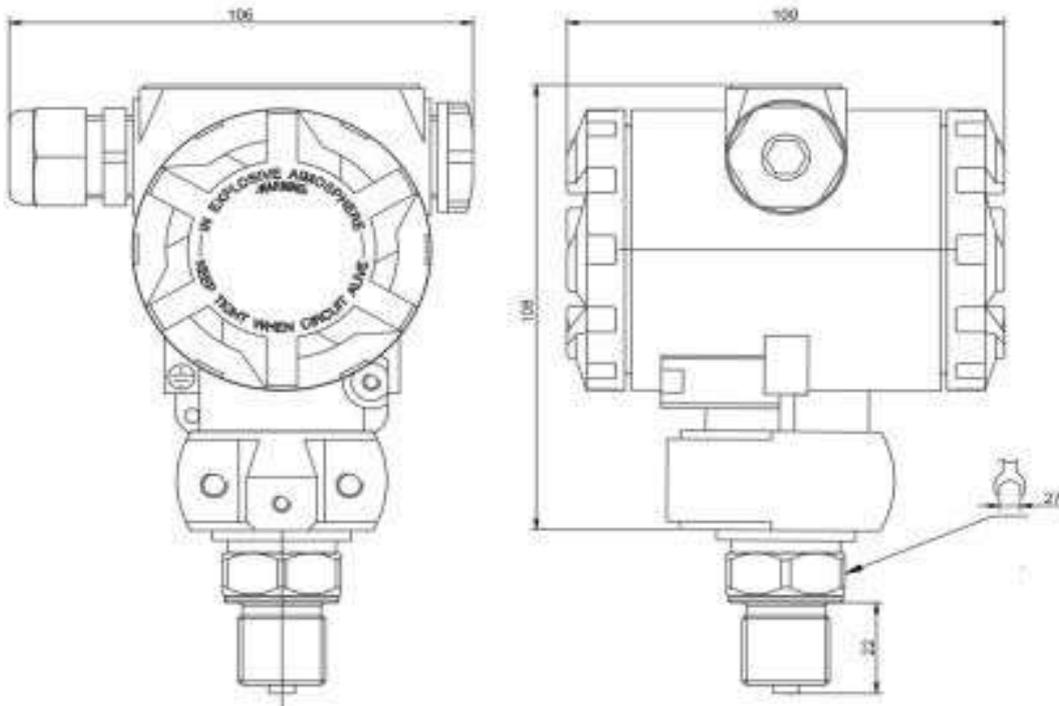


■ RS485 output

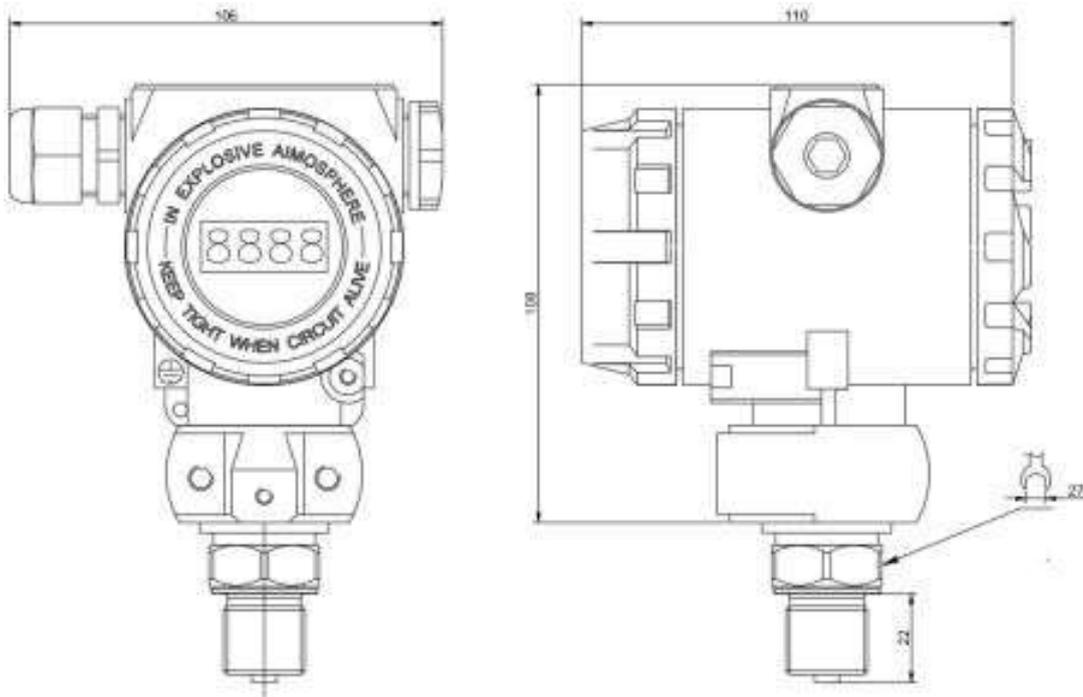


Dimensions

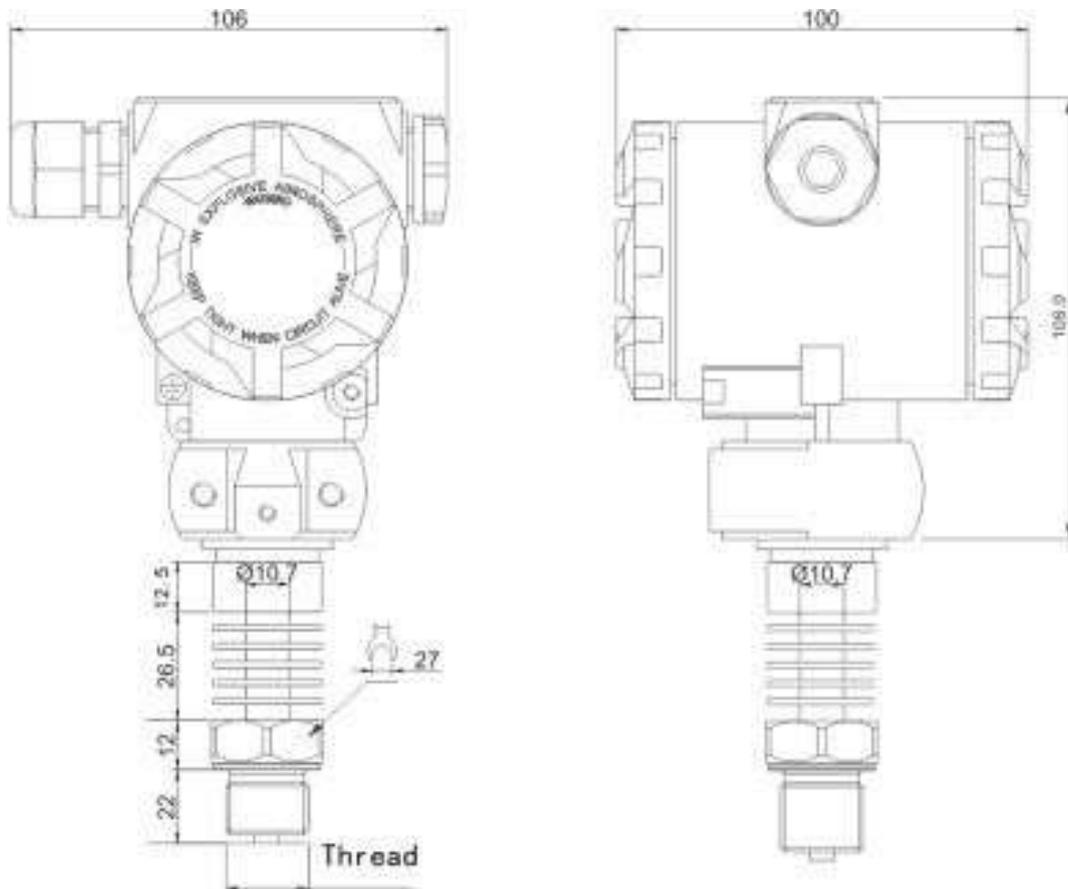
■ P400 without display



■ P400 with display



■ P400G



## Ordering Code

AI-XPT40-G-1A-F-A1-L2-A-W1												Description	
AI-XPT40	-	-	-	-	-	-	-	-	-	-	-	-	
Pressure Type	G												Gauge pressure
	A												Adiabatic pressure (0-30kPa to 1MPa only)
Measuring range		1A											-100-0kPa
		1B											-100-100kPa
		1C											-100-1000kPa
		1L											0-10kPa
		1M											0-20kPa
		1N											0-30kPa
		1Q											0-50kPa
		1S											0-100kPa
		2A											0-0.6MPa
		2B											0-1MPa
		2C											0-1.6MPa
		2D											0-2.5MPa
		2E											0-4MPa
		2H											0-10MPa
		2K											0-20MPa
		2L											0-25MPa
		2M											0-30MPa
		2N											0-40MPa
		2P											0-60MPa
		XX											Other
Accuracy			K										0.5 Class
			G										0.25 Class <100kPa not selectable
			F										0.2 Class <100kPa not selectable
Output and Power Supply				A1									Two-Wire 4-20mA
				A2									1-5V,24VDC
				A3									0-10V,24VDC
				A4									0-5V,24VDC
				XX									Other
Thread Type					L2								M20×1.5
					G2								G1/2
					G1								G1/4
					N								NPT1/4

	C					NPT1/2
	L3					M27×2
	L1					M14×1.5
	XX					Other
Diaphragm and Thread Type Material	A					SS316L,304SS
	B					SS316L,SS316L
	X					Other
Electrical Interface, Housing Material, and Ingress Protection		W1				M20×1.5 Cable Gland,Aluminum Alloy, IP65
<b>Additional Features (Optional)</b>						
Accessories		PA				Carbon Steel Thread Base
		PB				304SS Thread Base
		PD				304SS Condensation Bend (Only M20×1.5 and G1/2)



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