



Recorder



Flow



Pressure



Temp



Analyzer



Level

Datasheet

Anti-corrosion pressure transmitter

SUP-P302-B

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Datasheet**Anti-corrosion pressure transmitter
SUP-P302-B**

The anti-corrosion pressure transmitter uses a ceramic piezoresistive pressure sensor, which converts the pressure of the measured medium into a standard electrical signal through a high-reliability amplifier circuit and precise temperature compensation. The high-quality sensor and perfect assembly process ensure that the product excellent quality and performance. The product is made of polytetrafluoroethylene and has good corrosion resistance. It is mainly used in the chemical industry, especially for pressure measurement of corrosive media such as acids and alkalis.

Applications

- Metallurgy,
- Electricity
- Chemical industry
- Smoke control
- Hydraulic control
- Environmental protection
- Boiler steam control
- Air conditioning and purification equipment

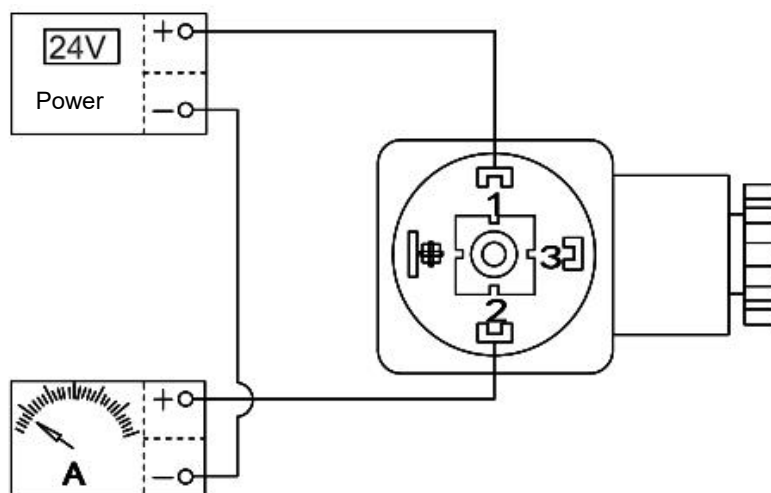
Features

- Compact structure, easy to install
- Medium anti-corrosion, environment anti-corrosion.
- High stability, high reliability.
- Strong anti-interference, good long-term stability.
- Various forms and structures
- Anti-vibration, anti-shock
- Wide measuring range

**Anti-corrosion pressure transmitter**

Parameters	
Pressure type	gauge pressure, absolute pressure, sealed pressure
Measuring range	-0.1MPa...0~10kPa...2MPa
Accuracy	0.5%
Output and power supply range	(4~20) mA output (10~32) V; (0~10) V output (12~32) V; (0~5) V, (1~5) V, RS485 output (8~32) V; (4~20) mA output with LCD 4-digit display head (17~32) V; RS485 output with 8-segment digital tube 4-digit display head (5~28) V
Compensation temperature	(0~70) °C
Working temperature	(-20~85)°C
Medium temperature	(-20~85) °C
Storage temperature	(-40~85)°C
Temperature drift	±3%FS
Overload pressure	200%FS
Long-term stability	±0.5%FS/year
Response time	Current, voltage output pressure ≤ 10ms (up to 90% FS); RS485 output type pressure ≤ 100ms (up to 90% FS)
Insulation resistance	20MΩ/250VDC
Dielectric strength	50Hz, 500VAC
Ingress protection	IP65
Load resistance	(4~20) mA output: load resistance ≤ (U-10V)/0.02A, U is the supply voltage; (4~20) mA output with display: load resistance ≤ (U-14V)/0.02A, U is the supply voltage; Voltage output: load resistance ≥ 5kΩ

Wiring

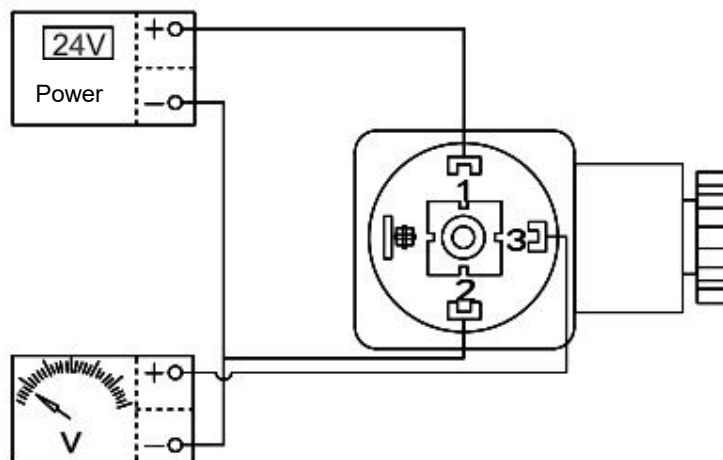


Current output

Wiring definition

1: Power is positive

2: Current output



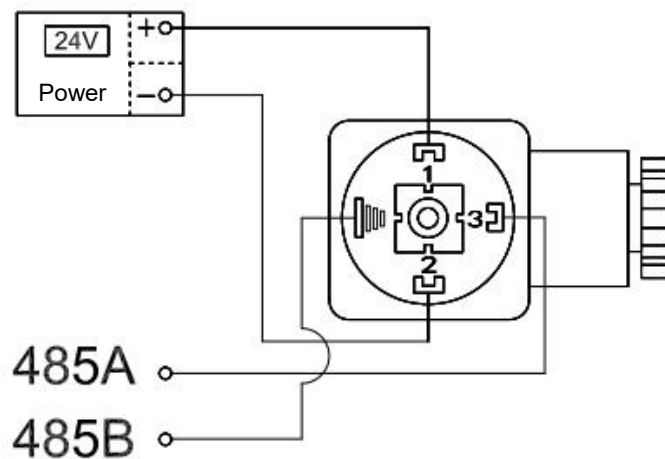
Voltage output

Wiring definition

1: Power is positive

2: power negative

3: Voltage output



RS485 output

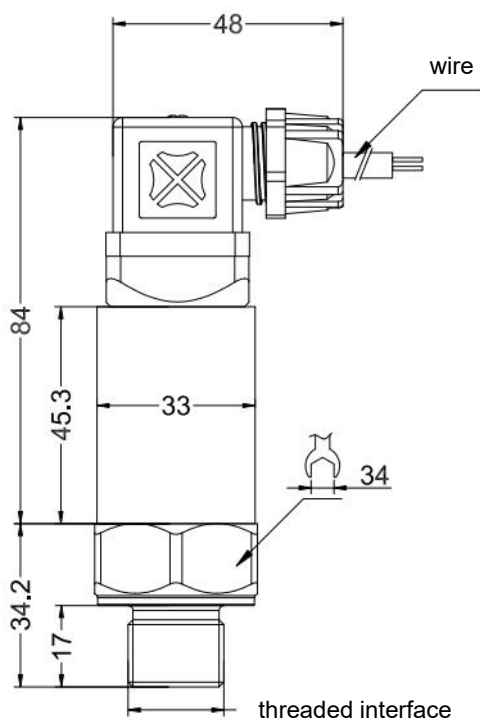
1: power supply positive

2: power negative

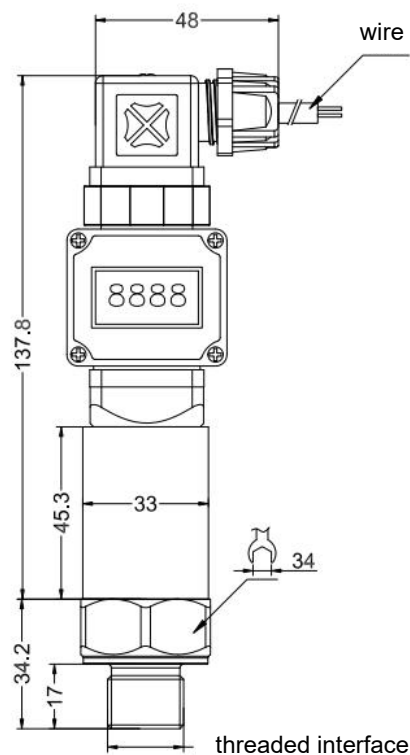
3: RS485A

⊕ : RS485B

Dimension



Hirschmann joint pressure transmitter



Hirschmann joint pressure transmitter with display

Ordering code

SUP-P302-B-G-1A-K-A1-L2-N6-WS-0-02										Description	Remarks
P302-B	-	-	-	-	-	-	-	-	-	Gauge Pressure	
Pressure Type	G									Other	
	X									-100-0kPa	
		1A								-100-100kPa	
		1B								-100-1000kPa	
		1C								0-10kPa	
		1L								0-20kPa	
		1M								0-30kPa	
Measurement Range		1N								0-50kPa	
		1Q								0-100kPa	
		1S								0-0.6MPa	
		2A								0-1MPa	
		2B								0-1.6MPa	
		2C								Other	≤2MPa
		9X									
Accuracy			K							0.5 Class	Measurement range within ±50kPa is not selectable
			L							1.0 Class	
				A1						Two-Wire 4-20mA	
Output and Power Supply				A5						RS485,24VDC	9-36VDC
				A2						1-5V,24VDC	
				XX						Other	
					L2					M20×1.5	
					G2					G1/2	
Thread Type					G1					G1/4	
					NC					NPT1/2	
					XX					Other	
						N6				Polytetrafluoroethylene (PTFE)	Seal material is fluororubber
Thread Type Material						XX				Other	
							WE			DIN Connector,Polytetrafluoroethylene (PTFE),IP65	
Electrical Interface, Housing Material, and Ingress Protection							WS			Cable Connector,Polytetrafluoroethylene (PTFE),IP65	
							W1			M20×1.5 Plug,Aluminum Alloy,IP65	Protective Type (2088 Housing)

Display Type	XX		Other	
	0		None	
	1		Available	Cable connector not available
Cable Length		00	0m	Protective type is only available for 0m
		02	2m	
		05	5m	
		10	10m	
		XX	Other	

Note: Not suitable for hydrofluoric acid