



Recorder



Flow



Pressure



Temp



Analyzer



Level

Datasheet

Anti-corrosion pressure transmitter

SIN-P302-B

Sinomeasure

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Datasheet**Anti-corrosion pressure transmitter
SIN-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

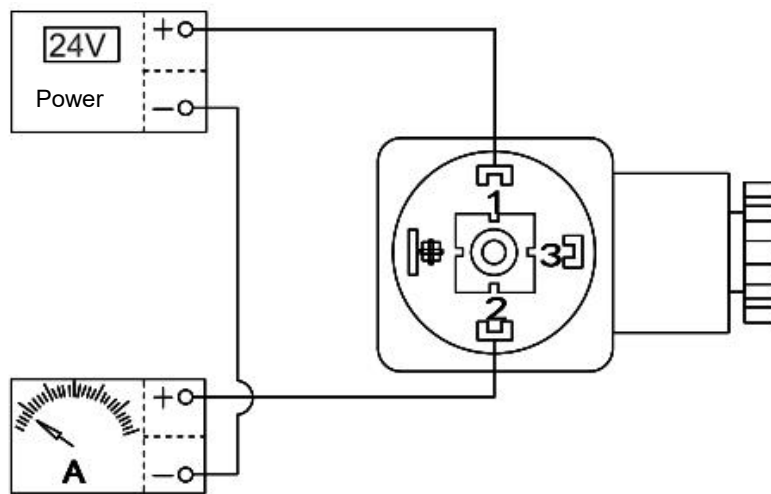
Features

- Compact structure, easy to install
- Medium anti-corrosion,environmentanti-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

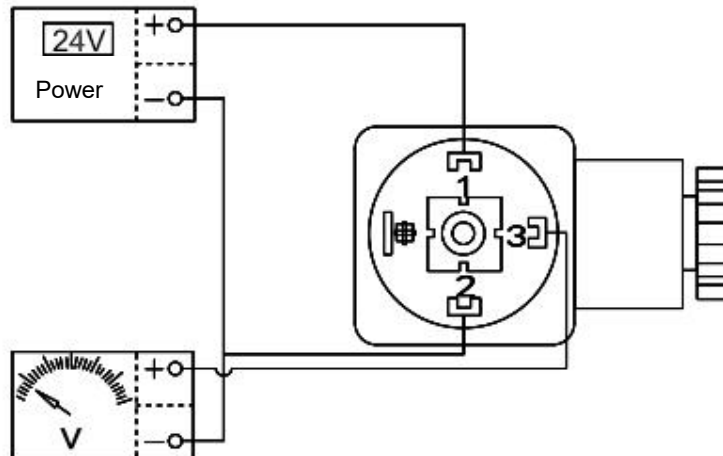


Current output

Wiring definition

1: Power is positive

2: Current output



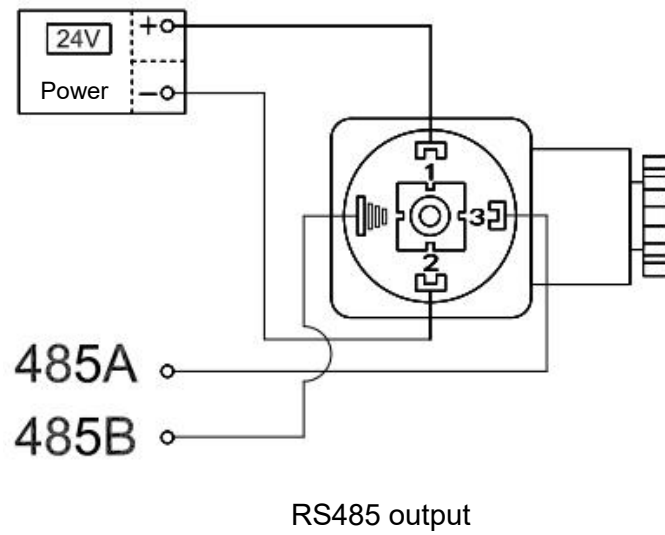
Voltage output

Wiring definition

1: Power is positive

2: power negative

3: Voltage output



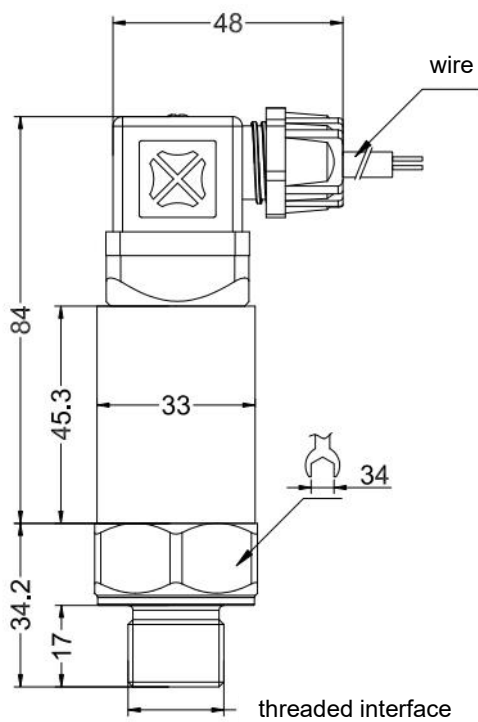
1: power supply positive

2: power negative

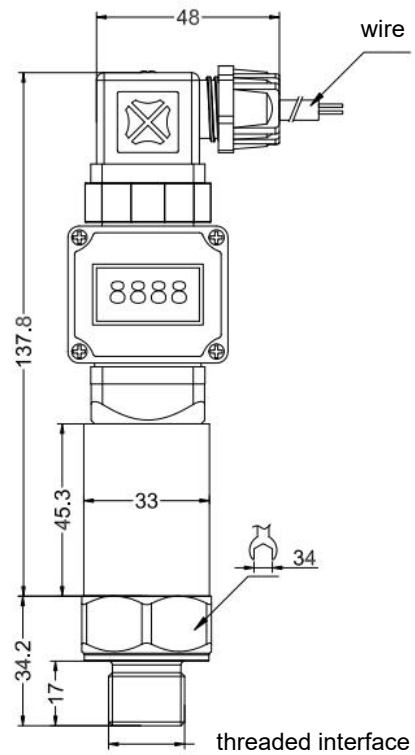
3: RS485A

⊕ : RS485B

Dimension



Hirschmann joint pressure transmitter



Hirschmann joint pressure transmitter with display

Ordering code

SIN-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								0.5 Class	Measurement range within ±50kPa is not selectable
Accuracy			K							1.0 Class	
			L							Two-Wire 4-20mA	9-36VDC
Output and Power Supply				A1						RS485,24VDC	
				A5						1-5V,24VDC	
				A2						Other	
				XX						M20×1.5	
					L2					G1/2	
					G2					G1/4	
Thread Type					G1					NPT1/2	
					NC					Other	
					XX					Polytetrafluoroethylene (PTFE)	Seal material is fluororubber
Thread Type Material						N6				Other	
						XX				DIN Connector,Polytetrafluoroethylene (PTFE),IP65	
Electrical Interface, Housing Material, and Ingress Protection							WE			Cable Connector,Polytetrafluoroethylene (PTFE),IP65	
							WS			M20×1.5 Plug,Aluminum Alloy,IP65	Protective Type (2088 Housing)
							W1			Other	
							XX				

Display Type	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