



Recorder



Flow



Pressure



Temp



Analyzer



Level

Datasheet

Pressure transmitter

SUP-PD566

Supmea[®]

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Datasheet**Pressure transmitter
SUP-PD566**

The circuit design of the transmitter adopts using a modular design with a microprocessor as the core and advanced digital isolation technology, the instrument. The meter has extremely high anti-interference and stability. At the same time, it monitors the transmitter through a built-in temperature sensor. Compensation improves measurement accuracy, reduces temperature drift, and has good long-term stability and reliability. It has the characteristics of high reliability and strong self-diagnosis ability. Structurally, it is very convenient for users to communicate via HART Calibrate, set up and configure the transmitter using the operator.

Applications

- Industrial control
- Chemical field
- Electricity
- Metallurgy
- Petroleum industry
- Forging industry
- Water affairs
- Brewing

**Features**

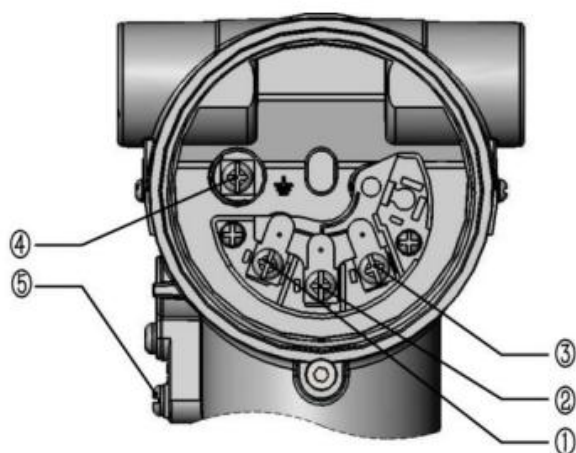
- Advanced technology and packaging technology, with leading technology ultra-high performance
- One-way over voltage can reach up to 25MPa
- Microprocessor and advanced digital isolation technology design, making the instrument highly anti-interference and stable
- Powerful 24-bit ADC achieves high accuracy
- The latest one-key clear function, making it safer and faster.

SUP-PD566

Parameters	
Measuring medium	Gas, steam, liquid
Accuracy	$\pm 0.1\%$; $\pm 0.075\%$; (Only for some ranges of the whole machine) (Including linearity, hysteresis and repeatability from zero point)
Stability	$\pm 0.1\%/3$ years
Static pressure effect	$\pm 0.05\%/10\text{MPa}$
Power supply	(15~36) VDC
Power supply impact	$\pm 0.001\%$ /10V, negligible
Ambient temperature	(-40~85)°C
Measuring medium temperature	(-40~120)°C
Storage temperature	(-40~85)°C
Display	LCD
Display shows module temperature	(-20~70) °C

Wiring

1 Terminal Block

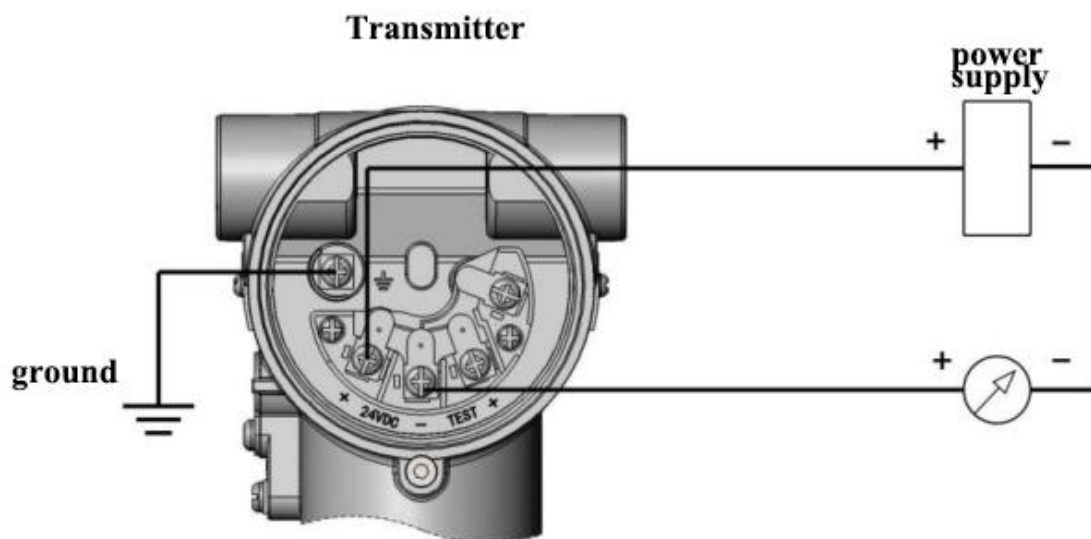


- ① Transmitter power supply positive
- ② Transmitter power supply negative (4~20)mA test terminal negative
- ③ (4~20)mA test terminal positive
- ④ Internal ground screw
- ⑤ External ground screw

Transmitter terminals

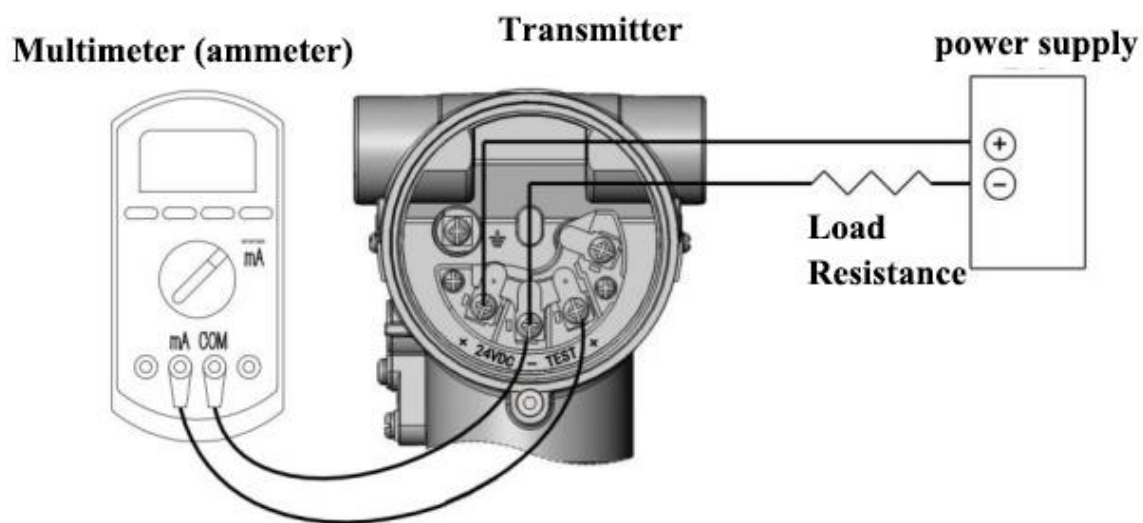
Note: Do not connect the power supply signal line to the test terminal, otherwise the test terminal will be destroyed diode inside. If the diode is unfortunately damaged, short-circuiting the test terminals will allow the transmitter to continue working. It's just that this machine cannot be connected to an external test meter. Signal wires do not need to be shielded, but twisted wires are more effective good. Do not route signal wires together with other power wires or close to strong electrical equipment.

2 Power cord connection



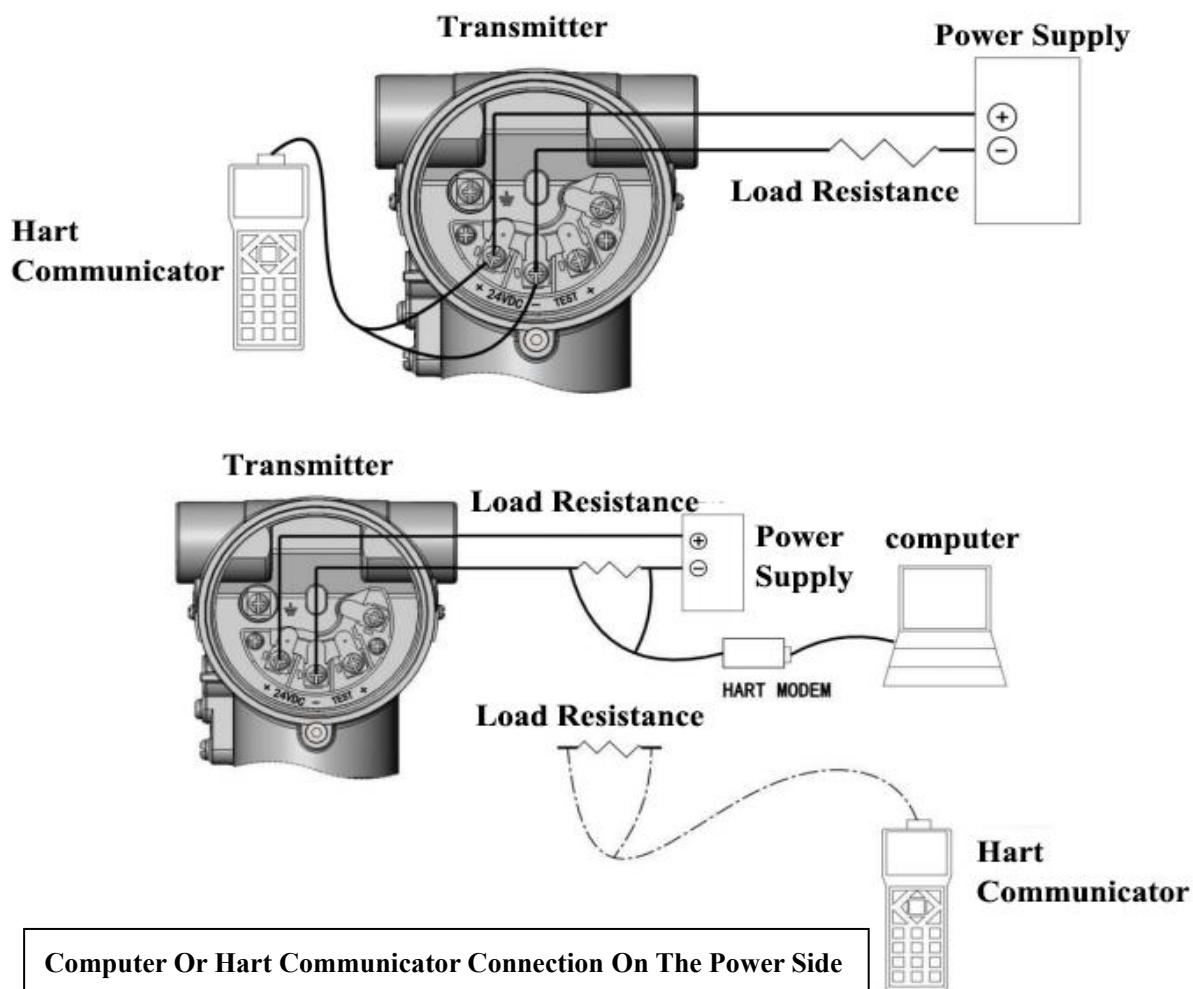
Transmitter power connection diagram

3 Current test instrument connection



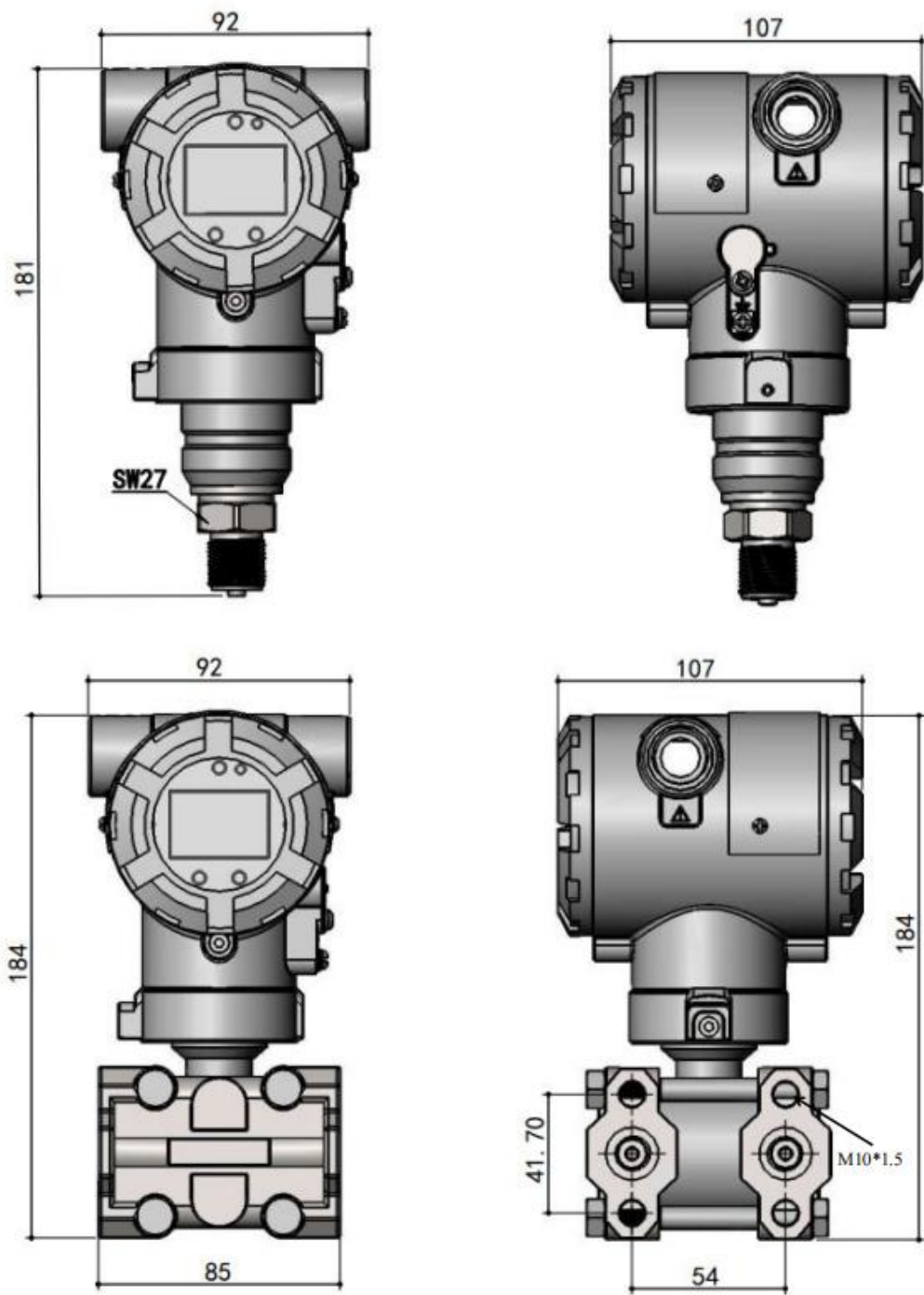
Current test instrument connection

4 Hart communication connection



Computer Or Hart Communicator Connection On The Power Side

Dimension



Ordering code

SUP-PD566-3E-D-H2-50-M1-0-A1-W3-M3-A-02-PF												Description
SUP-PD566	-	-	-	-	-	-	-	-	-	-	-	
Measurement Range	3E											10kPa
	3G											30kPa
	3J											50kPa
	3L											100kPa
	3M											250kPa
	3P											1MPa
	3R											3MPa
	XX											Other
Accuracy	F											0.2Class
	E											0.1Class
	D											0.075Class
Flange Specification			H2									HG/T20592 PN10/40
			H4									HG/T20592 PN63
			K1									ANSI Class 150
			K2									ANSI Class 300
			XX									Other
Flange Size			50									DN50(2")
			80									DN80(3")
			1C									DN100(4")
			XX									Other
Flange Material			M1									304SS
			M2									SS316L
Display Type			0									None
			1									Available
Output and Power supply						A1						Two-Wire 4-20mA(12-42VDC)
						A7						Two-Wire 4-20mA+HART(15-42VDC)
						A5						RS485, 24VDC(12-42VDC)
Electrical Interface, Housing Material, and Ingress Protection								W3				M20×1.5 Cable Gland, Aluminum Alloy, IP65
								XX				Other
Diaphragm Material								M3				SS316L
								MG				Hastelloy C
								T2				Tantalum
								XX				Other
Filling Liquid									A			Silicone Oil
									B			High-Temperature Silicone Oil
									F			Fluorinated Oil (Suitable for

Capillary Length	Q	02 05 10 XX	oxygen media)
			Vegetable Oil
			2m
			5m
			10m
Accessories		PF	Other
			Galvanized Carbon Steel Pipe-Mounted Flat Bracket + UNF7/16 Bolt
			304SS Pipe Mounted Flat Bracket + UNF7/16 Bolt

Note: Capillary tubes of equal length on both positive and negative pressure sides.