



Datasheet

Pressure and temperature

2 in 1 transmitter

SUP-PD500

Supmea[®]

Committed to process automation solutions

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Pressure and temperature 2 in 1 transmitter

The transmitter that integrates pressure and temperature measurement 2 in 1. Select high-reliability silicon piezoresistive pressure sensor, thermal resistance as the core components, after temperature compensation, digital circuit correction and signal conditioning, output standard industrial signals. The products with carefully designed, component screening, process verification and curing, cyclic loading and aging, environmental simulation testing and other processes to ensure that each product is stable and reliable. It is widely used in various pressure measurement with its excellent accuracy and reliability.

Application

- Coal mining
- oil field
- chemical industry
- environmental protection
- Medicine
- Environmental remediation
- water affairs
- Shipping



Features

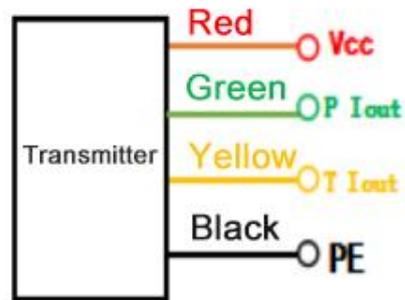
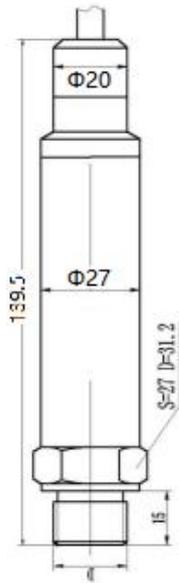
- Temperature and pressure 2 in 1
- High stability and low offset.
- A variety of structures
- strong versatility.
- Fully enclosed structure
- Ingress protection IP68

Pressure and temperature 2 in 1 transmitter

Parameters

Measuring range	
Measuring range	Pressure 0~600kPa...60MPa
	Temperature 0~65℃
Overload pressure	≤150%FS
Type of pressure	Gauge pressure
Accuracy	Pressure 0.5%FS
	Temperature 2.5%FS
Long-term stability	±0.2%FS/year
Zero temperature drift	±0.03%FS/℃
Sensitivity drift	±0.03%FS/℃
Compensation temperature	0℃~60℃
Medium temperature	-30℃~65℃
Power supply	12VDC~30VDC
Output signal	4mA~20mA
Load Resistance	Current type: ≤ (U-12) / 0.02 (Ω)
Ingress protection	IP68

Dimension and wiring



Red	Power supply +
Green	Pressure current output +
Yellow	Temperature current output+
Black	Grounding

Ordering code

SUP-PD500-G-2A-S1-L2-C-WA-02										Description	
PD500	-	-	-	-	-	-	-	-	-	-	Gauge Pressure
Pressure Type	G										
Measurement Range	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
Output and Power Supply	S1										3-Wire 4-20mA,24VDC
	A3										0-10V,24VDC
	A4										0-5V,24VDC
	A5										RS485,24VDC
	XX										Other

Thread Type	L2				M20×1.5
	G2				G1/2
	XX				Other
Diaphragm and Thread Type Material		C			316SS,304SS
		D			316SS,316SS
		X			Other
Electrical Interface, Housing Material, and Ingress Protection			WA		DIN Connector,304SS,IP65
			WC		DIN Connector,316SS,IP65
			WT		Cable Connector,304SS,IP68
			WV		Cable Connector,316SS,IP68
			XX		Other
Cable Length				02	2m
				05	5m
				10	10m
				XX	Other

Related products

Supmea



Monocrystalline silicon pressure Transmitter

Supmea



High temperature pressure transmitter

Supmea



High temperature flat film pressure transmitter

Supmea



Hessman differential pressure transmitter

Supmea



Flat membrane pressure transmitter

Supmea



Digital display transmitter