DATASHEET

Pressure

Pressure Transmitter
For High Temperature Applications
Model PWP350-HT

Applications

- Food processing
- Water, steam, boiler
- Chemical industry
- Oil & Gas
- Biotechnology
- Pharmaceutical, medical
- Steel manufacturing

Features

- Tolerant max 500℃
- All welded stainless steel construction
- 200% safe overload
- Imported sensor core high stability
- Surge protection
- Electromagnetic compatible
- Variety choices for structure, outputs, electrical connectors and pressure ports.

Pressure transmitter PWP350-HT

Description

PWP350-HT industrial high temperature pressure sensor is designed for the measurement of pressure across a wide range of general-purpose and industrial applications including oil&gas, boiler, medical, research and development and a range of steel manufacturing and preparation processes where media temperatures of up to 500ºC are present.

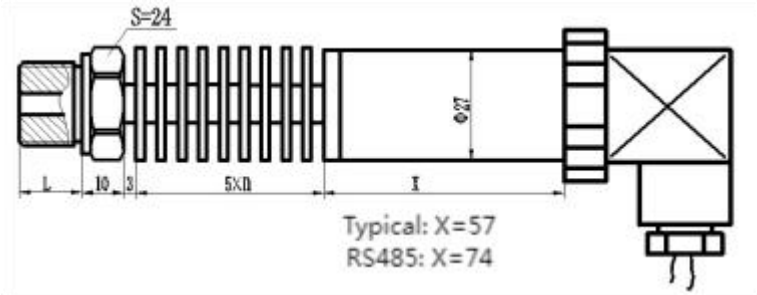
The model PWP350-HT equips with Germany imported piezoresistive sensor part and cooling fins device, to let transmitter accurately measure the pressure at high temperature medias.

Pokcenser provide pressure transmitters for harsh environment. High quality, reliable, stable and most cost-effective solution will be provided, we wait for your inquiry.

Specifications

Model	PWP350-HT
Pressure Type	Relative (gauge) /Absolute pressure/Sealed gauge pressure
Pressure Range	-0.1MPa...0kPa~10kPa …100MPa
Safe Overload	≤2 times (<10MPa) ≤1.5 times(≥10MPa)
Burst Pressure	3 times
Electrical Connection & IP Rating	DIN43650 Hirschmann Connector... IP65 Directly outlet cable... IP67
Accuracy	±0.5%FS, ±1.0%FS
Signal Output & Power Supply	4-20mA(2 wires) 0.5-4.5V(3 wires) 0-5V(3 wires) 0-10V(3 wires) 12-30VDC 5VDC 8-24VDC 12-30VDC --- I^2C RS485 Modbus 3.3 or 5VDC 5-30VDC
Response Time	≤3ms (10%~90%)
Medium Compatible	Liquid compatible with 316L or titanium alloy
Load Resistance(2 wires)	R≤(U-10)/0.02-RD (U: Power supply, RD: Internal resistance in the cable)
Total current consumption	Current signal(2wires): Max about 23mA Voltage signal(3wires): <5mA I^2C(4wires): <1.3mA (Available to customize low consumption <5 μA) RS485(4wires): <5mA (Available to customize low consumption <1.1mA)
Non-linear (%FS)	≤0.4 for 0.5%FS
Hysteresis (%FS)	≤0.1 for 0.5%FS
Repeatability (%FS)	≤0.1 for 0.5%FS
Long-term Stability (%FS/year)	≤0.5%FS ±0.05%/year
Zero Temp Drift (%FS/℃)	≤0.05%FS/℃(≤100kPa) ≤0.03%FS/℃(>100kPa)
Working Temp.	Medium -40℃~+500℃; Environmental -40℃~+85℃
Storage Temp.	-40℃~+85℃
Vibration Environment	10g (@10Hz~2000Hz)
Impact Resistance	100g/11ms
Service Life	>10 million load cycles (within measurement range)
Explosion Proof	Exia II CT6
EMC Standard	EN IEC 61326-1:2021; EN IEC 61326-2:2021

Dimensions and Drawings



*Unit:mm. Above is typical structure. Other structures and dimensions can be customized.

Electrical Connection

DIN43650 Hirschmann connector					
	Terminal	Current(2wires)	Voltage(3wires)	IIC(4wires)	RS485(4wires)
	1	Vcc	Vcc	Vcc	Vcc
	2	Iout	GND	GND	GND
	3	/	Vout	SCL	RS485A
	⏚	PE	PE	SDA	RS485B
Directly outlet cable					
	Wire Color	Current(2wires)	Voltage(3wires)	IIC(4wires)	RS485(4wires)
	Red	Vcc	Vcc	Vcc	Vcc
	Green	Iout	GND	GND	GND
	Yellow	/	Vout	SCL	RS485A
	Blue	/	/	SDA	RS485B
	Black	PE	PE	PE	PE

How to Order

Example Part Number: 350HT1[60]BGT1S2C4U2A2M1000

Model No.	PWP350-HT	350HT
Electronic Connection	1=DIN43650 Hirschmann terminal box 2=Direct outlet cable 0=Customized	1
Pressure Range	-0.1MPa...0kPa~10kPa …100MPa Directly write in []	[60]
Pressure Units	B=bar P=Psi K=kPa M=MPa H=mH2O	B
Pressure Type	G= Gauge/Relative A=Absolute	G
Signal Output	T1=4-20mA(2wires) T2=0-5V(3wires) T3=1-5V(3wires) T4=0-10V(3wires) T5=0.5-4.5V(3wires) T6=I^2C(4wires) T7=RS485(4 wires) T0=Customized	T1
Power Supply	S1=8-24VDC S2=12-30VDC S3=5VDC S4=3.3VDC S5=5-30VDC S0=Customized	S2
Pressure Connection	C1=G1/4” male C2=1/4”NPT male C3=M20x1.5 male C4=G1/4” female C5=1/4”NPT female C6=G1/2”male C7=1/2” NPT male C8=1/8”NPT male C0=Customized	C4
Working Temp.	U1=Max 150℃ (Accuracy ≤0.5%FS) U2=Max 200℃ (Accuracy ≤1.0%FS) U3=Max 300℃ (Accuracy ≤1.0%FS) U0=Customized	U2
Accuracy	A1=0.5%F.S. A2=1.0%F.S.	A2
Housing Material	M1=SUS304(Typical) M2=316L M0=Customized	M1
Cable Length	000=Non-cable 001= 1m cable 002= 2m cable ...	000

*Means to order: Pressure transmitter PWP350-HT with Hirschmann terminal box, 0~60barGauge, 4-20mA, 12-30VDC, G1/4” female, medium temperature max 200℃, 1.0%FS accuracy, SUS304 material, cable length is 0.

You may also Need

Reference Picture	Description	Product
	To connect with pressure transmitter and to have a site indicator of the measured value, have high&low value alarms, record and control.	Display/indicator/controller
	Cast aluminum material with IP67 protection level for submersible pressure transmitter. Moisture-proof sealing design, insulation protection against electric shock. To be placed in dry environment or in a cabinet.	Terminal box 0010

***Tell us medium / which application / measuring range / working temperature / signal output / what you wanna to realize, our sales engineer will recommend suitable model for you.*