

HPT200 PRESSURE •DATASHEET•

Pressure Measurement 2. Level Measurement 3. Temperature Measurement
4. Flow Measurement 5. Display & Control Instruments
6.Wireless Monitoring System 7.Velocity Measurement



HPT200 series

Universal Industry Pressure(Level) Transducer & Transmitter

Applications

- · Critical industrial applications
- Petroleum
- · Chemi-industry
- Metallurgy
- Power station
- · Hydrology, Agriculture
- · Harsh environments in the process industry
- Fuel storage and transport

Features

- Non-linearity up to 0.1% of span
- High Shock and Vibration
- Customized outputs, electrical connections and pressure ports
- · CE ATEX RoHS certificate approved
- Overcurrent/overvoltage protection
- · Polarity Protection
- Full sealed high stability impact design

Profiles

HPT200 pressure transducers/transmitters use high quality imported piezoresistive pressure sensor. It has a fully welded 316L stainless steel housing, with high shock and vibration resistance and EMI/RFI protection.

HPT200 series offers continuous measuring ranges up to 1000 bar and it can be combined with all the standard industrial output signals, the most common process connections and a wide number of electrical connections.

Furthermore, it offers numerous options, such as different accuracy classes, extended temperature ranges and custom specific pin assignments, meaning it can suit the widest range of applications.

Holykell can provide a cost effective solution for pressure monitoring for a variety of applications. Welcome your inquiry.





Measuring range

bar	-1 to 10 to 0.10 to 1000
Кра	-100 to 1000 to 100 to 100000
psi	-15 to 150 to 1.50 to 15000
mbar	-1000 to 10000 to 1000 to 1000000
m	0 to 150m Level (by customized)
	•••••••••••••••••••••••••••••••••••

They give measuring range are also available in Mpa , Pa,in Hg,mm Hg

Materials

Wetted Parts	Standard	Option
Case and sensor	Stainless steel 316L	316 SST/SUS321
Filled Oil	Silicone oil	Fluorocarbon oil
Cable	PVC	PTFE/PUR/PE

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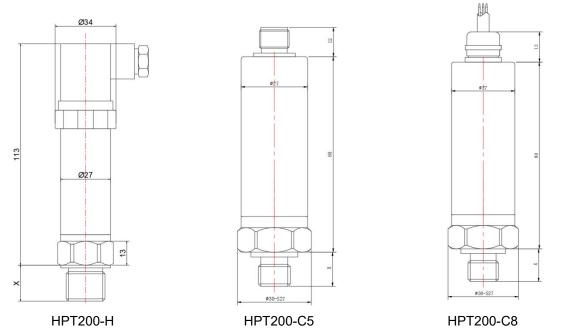
PRESSURE MEASUREMENT

Specifications

Ambient Temperature: 25°C (unless specified)

Parameter	HPT200-H/C8/C5								
Pressure Range	Gauge /Absolute / Sealed gauge / Negative pressure optional.								
Safe Overload	200% F.S.								
Burst Pressure	500% F.S.								
Accuracy at 25°C (Linearity Hysteresis Repeatability)	≤ ±0.25%F.S typical ≤ ±0.1%F.S (by customized) at 25℃ Including non-lin., rep. and hys.								
Total Error Band	050 °C max. ≤±0.75%FS; 11060 °C max. ≤±1.0 %FS								
Long-term Stability	0.1%F.S/Year								
Working Temp.	-20℃~80℃(corrosive medium); -40℃~80℃(non-corrosive medium)								
Storage Temp.	-40℃~125℃(Nitrile rubber sealing ring); -30℃~150℃(fluororubber rubber sealing ring)								
Medium Compatible	Compatible with SUS316L								
Electrical Wire	2 Wires 3 Wires 4 wires								
Output	4-20mA ⁺ 0-5V;0.5-5V 0-10V 0.5-4.5V 4-20mA Double 4- RS485 Hart 0-5V;0.5-5V 0-10V non-ratiometric +Temp(Ω) 20mA Modbus (P+Temp) RTU								
Power Supply	7-30Vdc 12-30Vdc 8-30Vdc 13-30Vdc 5Vdc±5% 12-30Vdc 12~30Vdc 3.3-36Vdc								
Load Resistance	Current type: (U-10)/0.02 (Ω); Voltage type: >100K Ω								
Insulate resistance	>100M Ω @100V dc								
Zero Temp. Drift	0.2%FS/℃(≤100kPa), 0.1%FS/℃(>100kPa)								
Body material	316L stainless steel								
Material of diaphragm	316L Stainless steel								
Endurance	>100 million cycles, 1090 %FS at25 $^\circ\!\!\mathbb{C}$								
Electrical connection	DIN43650 Hirschmann Connector 4 Pin Type Direct cable outlet type								
Limiting Frequency	1 kHz								
Mechanical vibration	±20g								
Pressure connect port	G1/4''male, G1/2''male, 1/8''NPT male, 1/4''NPT male, 1/2''NPT male and female optional. (by customized)								
Water Proof	IP65 to IP67								
Response time	≤10ms								
Options	Temperature Range by customized, Maximal range: -40+100 °C Oil Filling Fluorocarbon oil (O2-compatible), olive-oil, lowest temperature oil (-55 °C) Pressure Connection, Electrical Connection Others on request. withstand Xylene medium pressure and level application (customized)								

Dimensions and Drawing



Unit,mm

Electrical Connection

	Direct cable outlet						
		Red	U+				
	Current	Green	lout(U-)				
		Black	≟ Connect to earth ground				
		Red	U+				
	Voltage	Green	Vout				
		Black	U-				

	DIN 43650 Connector					
		1	U+ / Red			
		2	lout(U-) / Green			
	Current	3	NC			
		4	≟ Connect to earth			
			ground / Black			
2-	Voltage	1	U+ / Red			
		2	U- / Black			
		3	Vout / Green			
		4	≟ Connect to earth ground			

	Direct cable outlet					
		Red	U+			
	4-20mA	Green	Signal+(Pressure)			
	+Temp	Yellow	Signal+(PT100A)			
		Blue	Signal+(PT100B)			
		Black	U- & ≟ Connect to earth ground			
		Red	U+			
	Rs485 RTU Modbus	Black	U-			
		Green	RS485A			
		Blue	RS485B			
		Yellow	่≟ Connect to earth ground			

	Plug:4-pin Type					
		1	U+ / Brown			
	Current	2	lout(U-) / White			
$\frac{2}{1}$		3	NC			
$\langle \cdot \cdot \rangle$		4	≟ Connect to earth ground / Black			
3 4	Voltage	1	U+ / Brown			
		2	Vout / White			
		3	U-/ Blue			
		4	≟ Connect to earth ground /Black			

PRESSURE MEASUREMENT

How to Order

1. Range Selection Table:

01	-1~65	07	0~6	13	0~35	19	0~160	25	0~500		
02	-1~125	08	0~10	14	0~40	20	0~200	26	0~600		
03	0~1	09	0~16	15	0~50	21	0~250	27	0~1000		
04	0~2	10	0~20	16	0~60	22	0~300				
05	0~3	11	0~25	17	0~70	23	0~350				
06	0~5	12	0~30	18	0~100	24	0~400	Х	By Customized		

Kindly according to your application select suitable range code , Example: Code 11 = 25 . Unit of measure select on the Part Number Selection Table . Example: Code B=Bar , that's 25 bar .

2. Part Number Selection Table:

200 Selection Type	н	15	В	G	E7	S43	3	Ν	1	002
Electrical Connection	H= Hirschmann DIN43650 EX=1/2''NPT C8=Directly cable outlet C5= M12 (4-pin) Type GE=LED digital display GC=LCD digital display									
Pressure Range	Range reference to pressure selection table code	e range								
Pressure Units	B=bar P=Psi K=KPa M=MPa H=mH2O F=m Fuel									
Pressure type	G=Gauge/Relative A=Ab	solute								
Signal Output	E0=1-5V (3 wire) E5=4-20m E7=0-10V (3 wire) E8=0.5-4.5 E11=RS485 Modbus RTU (4w E22=Double 4-20mA for P+T E55=4-20mA+Temp. X= By customized	5V(3 wire)		/(3 wire)						
Power Supply	S11=7-30Vdc S12	=12-30Vd =8-30Vdc =13-30Vc		customiz	zed					
Pressure connection	•	1/4" male 1/2" mal By custon	e 10	G1/4"Fe =1/2" N	male IPT male					
Other option		Flush dia Standarc)xygen ser Fuel Filter					
Accuracy	2=0.25%F.S 3=0.1%F.S(b	y custom	ized)							
Cable length	000=Non-Cable 001= Cable	1M C	02= Cabl	e 2M	X= By cu	stomized				

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PRESSURE MEASUREMENT

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Accessories

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(Notes: Please purchase separately. For the price of accessories, please contact our sales.)

	Description	Order number
	Liquid level display control device With all kinds of liquid level sensor, measurement according to liquid level, and according to the setting of the container structure and size and the density of liquid, calculation, display liquid volume or quality.	0008
	Attached LED indicator for transmitters standard version	0006
845.61	Attached LCD indicator for transmitters standard version	0007
T	Terminal box The terminal box, with IP67 and watertight ventilation element, provides a moisture-free electrical termination for the submersible pressure transmitter. It should be mounted in dry environment or directly in the switch cabinet.	0003
	Damper Screw/damper against pressure peak	0025

Order information Model /Measuring range /Output Signal/Medium/Cable length/Case/Accessories

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