

TECHNOLOGY

HOLYKELL®

HPT200
PRESSURE
• DATASHEET •

- 1. 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
- Strong shock and vibration resistance
- Customized outputs, electrical connections and pressure ports
- CE RoHS certificate approved
- Overcurrent/ overvoltage protection
- Polarity Protection
- Full sealed high stability impact design

Profiles

HPT200 series pressure transmitter uses 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 1...0 to 0.1...0 to 1000
Kpa	-100 to 100..0 to 10...0 to 100000
psi	-15 to 15..0 to 1.5...0 to 15000
mbar	-1000 to 1000...0 to 100...0 to 1000000
m	0 to 1...50m Level (by customized)

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

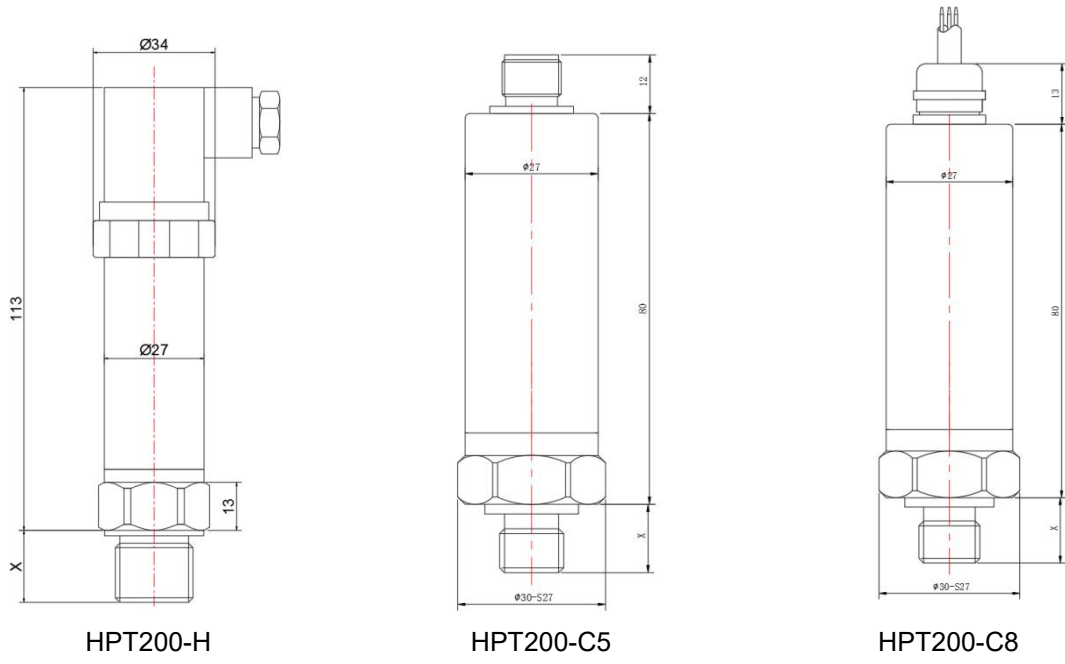
Materials		
Wetted Parts	Standard	Option
Case and sensor	Stainless steel 316L	316 SST/SUS321
Filled Oil	Silicone oil	Fluorocarbon oil
Cable	PVC	PTFE/PUR/PE

Specifications

Ambient Temperature: 25°C (unless specified)

Parameter	HPT200-H/C8/C5							
Pressure Type	Gauge / Absolute / Sealed gauge / Negative pressure optional							
Safe Overload	150% F.S							
Burst Pressure	500% F.S							
Accuracy (Linearity, Hysteresis, Repeatability)	≤ ±0.25%F.S typical ; ≤ ±0.1%F.S (by customized) at 25°C including non-lin., rep. and hys.							
Long-term Stability	0.1%F.S/Year							
Working Temp.	-20°C to +80°C (corrosive media); -40°C to +80°C(non-corrosive media)							
Storage Temp.	-40°C to +85°C							
Medium Compatible	Compatible with SUS316L, and titanium by customized							
Electrical Wire	2 Wires		3 Wires					4 wires
Output	4-20mA	4-20mA+ Hart	0-5V; 0.5-5V	0-10V	0.5-4.5V non-ratiometric	4-20mA +Temp(Ω)	Double 4-20mA (P+Temp)	RS485 Modbus RTU
Power Supply	8-30 V DC	12-30 V DC	8-30 V DC	13-30 V DC	5 V DC±5%	12-30 V DC	12-30 V DC	8-30 V DC
Load Resistance	≤(U-8)/0.02 Ω		≥ 100 KΩ					-
Insulate resistance	>100M Ω @100 V DC							
Zero Temp. Drift	0.01%FS/°C							
Body material	316L stainless steel							
Material of diaphragm	316L Stainless steel							
Endurance	>100 million cycles, 10...90 %FS at25°C							
Electrical connection	DIN43650 Hirschmann Connector; 4-pin Type; Cable-out							
Limiting Frequency	1 kHz							
Mechanical vibration	±20g							
Pressure connection	G1/4"male, G1/2"male, 1/8"NPT male, 1/4"NPT male, 1/2"NPT male/ female (by customized)							
Water Proof	IP65 to IP67							
Response time	≤20 ms(Current and voltage signals); ≤100 ms (digital signals)							
Shock-resistance	Shock: 20g/1ms; IEC 60068-2-27; Free fall: 1 meter; IEC 60068-2-32							
EMC	Immunity: IEC 61000-6-2, Emission: IEC 61000-6-3							
Surge	IEC 61000-4-5 Level 3, 2kV							
Electrostatic discharge	IEC 61000-4-2 Level 4							
Options	Temperature Range by customized, Maximal range: -40...+100 °C Oil Filling Fluorocarbon oil (O ₂ -compatible), olive-oil, lowest temperature oil (-55 °C) Other pressure connection, electrical connections by customized. withstand Xylene medium pressure and level application (customized)							

Dimensions and Drawing



Electrical Connection

	Cable-out		
	Current	Red	U+
		Green	Iout(U-)
		Black	⊥ Connect to earth ground
	Voltage	Red	U+
		Green	Vout
Black		U-	

	Cable-out		
	4-20mA +Temp	Red	U+
		Green	Signal+(Pressure)
		Yellow	Signal+(PT100A)
		Blue	Signal+(PT100B)
		Black	U- & ⊥ Connect to earth ground
	RS485 RTU Modbus	Red	U+
		Black	U-
		Green	RS485A
		Blue	RS485B
Yellow		⊥ Connect to earth ground	

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

	Plug:4-pin Type		
	Current	1	U+ / Brown
		2	Iout(U-) / White
		3	NC
		4	⊥ Connect to earth ground / Black
	Voltage	1	U+ / Brown
		2	Vout / White
		3	U- / Blue
4		⊥ Connect to earth ground /Black	

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	X	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	H	15	B	G	E7	S43	3	N	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 range selection table code									
Pressure Units	B=bar P=Psi K=KPa M=MPa H=mH2O F=m Fuel									
Pressure type	G=Gauge/Relative A=Absolute									
Signal Output	E0=1-5V (3 wire) E5=4-20mA(2 wire) E6=0-5V(3 wire) E7=0-10V (3 wire) E8=0.5-4.5V(3 wire) E11=RS485 Modbus RTU (4wire) E22=Double 4-20mA for P+T E55=4-20mA+Temp. X= By customized									
Power Supply	S6=5 VDC S43=13-30 VDC			S10=12-30 VDC X= By customized			S12=8-30 VDC			
Pressure connection	3= 1/4" NPT male 8= M20x1.5 male 26=1/4"-18 NPT Female			6=G1/4" male 9=G1/2" male X= By customized			7=G1/4"Female 10 =1/2" NPT male			
Other option	C=Anti-corrosive Type X=Withstand Xylene			F=Flush diaphragm N=Standard Type			O=Oxygen services FF=Fuel Filter			
Accuracy	1=0.5%F.S			2=0.25%F.S			3=0.1%F.S(by customized)			
Cable length	000=Non-cable			001= Cable 1 m			002= Cable 2 m		X= By customized	

Accessories

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

	Description	Order number
	<p>Liquid level display control device</p> <p>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.</p>	0008
	Attached LED indicator for transmitters standard version	0006
	Attached LCD indicator for transmitters standard version	0007
	<p>Terminal box</p> <p>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.</p>	0003
	<p>Damper</p> <p>Screw/damper against pressure peak</p>	0025

Order information

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