

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 transducer/transmitters use high quality imported U.S.A piezoresistive pressure sensor,Complete with a fully welded316 stainless steel housing, high shock and vibration and EMI/RFI protection.It will survive in the

HPT200 offers continuous measuring ranges between $-1\sim5$ to $0\sim1000$ bar and it can be combined with all the standard industry 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 customer specific pin assignments, meaning it can be suited to 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 (Customize)

They give measuring range are also available in Mpa , Pa,in Hg,mm \mbox{Hg}

Materials

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

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PRESSURE MEASUREMENT

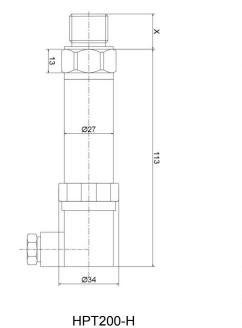
Specifications

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.	200% F.S.							
Burst Pressure	500% F.S.								
Accuracy: (At 25 degree C)	≤ ±0.5%F.S ≤ ±0.25%F.S ≤ ±0.1%F.S (on reque	est)							
(Linearity Hysteresis	Including non-lin., rep	. and hys.							
Repeatability)	Optional								
Total Error Band	050 °C max. ≤±0.7	′5%FS; -1060 °C	; max. ≤±1.0 %FS						
Long Stability	0.1%F.S/Year								
Working Temp	-40℃~85℃/150℃ op	tional							
Storage Temp	-40°C~105°C								
Medium Compatible	Compatible with 316L								
Electronic Wire	2 Wires	4 Wires	3 Wires	4 Wires	3 Wires				
Output	4~20mA or 4-20mA+HART	Double 4-20mA (P+Temp)	0~5V,1~5V/ 0-10V	Rs485	4~20mA +Temp(Ω)				
Power Supply	7~30Vdc/12~30Vdc	12~30Vdc	8~30Vdc/15~30Vdc	7~30Vdc,	12~30Vdc				
Load Resistance	Current type: (U-10)/0	0.02 (Ω); Voltage typ	e: >100K Ω						
Insulate resistance	>100M Ω @100V dc								
Zero Temp. Drift	0.02%FS/℃ (≤100k	Pa), 0.01%FS/0	C (>100kPa)						
Body materials	316L stainless steel								
Material of diaphragm	316L Stainless steel								
Filling oil	Silicon oil (Typical);	Fluorocarbon oil	(Oxygen Services, by	customized	1)				
Electronic connection	-Plug: (4-poles) Type	-DIN43650 Hirschmann Connector, 4-poles and IP65. -Plug: (4-poles) Type IP67; -Directly Outlet Cable Type IP67							
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(HPT200-H,HP	T200-C5); IP67 (H	PT200-C8)						
Response time	≤10ms								
Endurance	>100 million cycles,	0100 %FS at25	C						
Options	Oil Filling Fluorocarbo Pressure Connection,	on oil (O2-compatible Electrical Connection	mal range: -40…+100 ° e), olive-oil, lowest tem on Others on request. evel application (custor	perature oil (-55 °C)				

PRESSURE MEASUREMENT

Dimensions and Drawing





HPT200-C5

Ø30-S27



HPT200-C8

Unit,mm

Electronic Connection

	Directly sealed cable						
		Red	Vcc+				
	Current	Green	S _i +				
~~ 		Black	Shield				
		Red	Vcc+				
	Voltage	Green	S _i +				
		Black	GND				
		Yellow	Shield				

	DIN 43650 Connector						
	Current	1	Vcc+/ Red				
		2	S _i + / Green				
		Current	Current	Current	Current 3	3	NC
3		4	Shield / Black				
2	Voltage	1	Vcc+ / Red				
		2	GND / Black				
		3	S _i + / Green				
		4	Shield				

	Directly sealed cable					
		Red	Vcc+			
	4-20mA	Green	S+(Pressure)			
	+Temp	Yellow	S+(PT100A)			
		Blue	S+(PT100B)			
		Black	GND&Shield			
_		Red	Vcc+			
	Rs485 RTU Modbus	Black	Vcc-&S-			
		Green	RS485A			
		Blue	RS485B			
		Yellow	Shield wire			

	Plug:(4-poles) Type				
		1	Vcc+ /Brown		
2 1		2	S _i + / White		
	Current	3	NC		
3 2 4		4	Shield / Black		
	Voltage	1	Vcc+ / Brown		
		2	S+ / White		
	Voltage	3	GND / Blue		
		4	Shield /Black		

S=Signal output, Vcc=Power Supply, GND=Vcc-&S-

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PRESSURE MEASUREMENT

How to Order

1. Range Selection Table:

Range code	Pressure range								
1	00.1	11	03	21	0200	31	01.6	41	-10.6
2	00.15	12	05	22	0250	32	02.5	42	-11
3	00.2	13	010	23	0300	33	04	43	-11.5
4	00.25	14	016	24	0350	34	06	44	-13
5	00.3	15	025	25	0400	35	010	45	-15
6	00.4	16	040	26	0600	36	016	46	-19
7	00.5	17	060	27	00.25	37	025	47	-110
8	01	18	070	28	00.4	38	0.81.2	48	-115
9	02	19	0100	29	00.6	39	-0.60	49	-120
10	02.5	20	0160	30	01	40	-10	50	By Customized

Kindly according to your application select suitable range code, Example: Code 15 = 25.

Unit of measure select on the Part Number Selection Table . Example: Code B=Bar , that's 25 bar .

2. Part Number Selection Table:

HPT200 Selection Type	н	15	в	G	E7	S9	3	Ν	1	002
Electronic Connection	H= Hirschmann DIN43650 EX= 1/2"NPT C8= Directly Outlet Cable C5= M12 (4-pin) Type GE= LED digital display GC= LCD digital display									
Pressure Range	Range reference to pressure selection table code	range								
Pressure Units	B=bar P=Psi K=KPa M=MPa H=mH2O F=m Fuel									
Pressure type	G=Gauge A=Absolute N=	Negative								
Signal Output	E0= 1-5V (3 wires) E5= 4-20 E7= 0-10V (3 wires) E8= 0.5-4 E11=RS485 Modbus RTU (4wi E21=Double 4-20mA for P+T E22=4-20mA for P and Ω for T X= By Customized	I.5V(3 wire		0-5V (3 v	vires)					
Power Supply	S3=24Vdc (Typical) S5=12Vdc (for E0 ,E5,E6) S6=5Vdc (for E8) S9=15~30Vdc (for E7) S12=8~30Vdc (for E0, E6) S30=7~30Vdc (for E5)									
Pressure connection	3= 1/4" NPT male 6=G1/4" ma 8= M20x1.5 male 9=G1/2" n 26=1/4"-18 NPT Female X= By Customized		61/4"Fem 1/2" NP ⁻							
Other option		Flush dia tandard T			xygen ^F uel Filter					
Accuracy	1=0.5%F.S 2=0.25%F.S	3=0.1%F	.S (by cu	stomize						
Cable length	000=Non-Cable 001= Ca	ble 1M	002	2= Cable	e 2M	X= By	Custom	ized		

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Accessories

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(Notes: Purchased 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
BYS.ĒÌ	Attached LCD indicator for transmitters standard version	0007
R.	Terminal box The terminal box, with IP 67 ingress protection 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

Order information

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

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