

1. Pressure Measurement 2. Level Measurement 3. Temperature Measurement 4. Flow Measurement 5. Display & Control Instruments

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 0.125 % 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 -1~5 to 0~1000 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 to 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 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



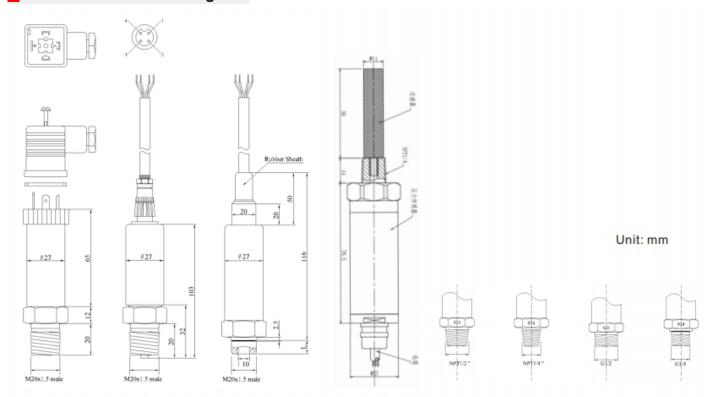
Specifications

Ambient Temperature: 25°C (unless specified)

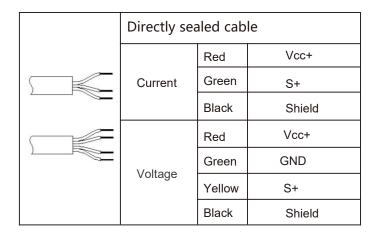
Parameter	HPT200-H/EX/C8	/C5/G					
Pressure Range	Gage /Absolute / Sealed gauge / Negative pressure optional.						
Safe Overload	200% F.S.(standar	d)					
Burst Pressure	300% F.S. (standa	rd)					
Accuracy:	≤±0.5%F.S; ≤±0.25 ≤±0.1%F.S (Custor						
(Linearity Hysteresis	Including non-lin., re	p. and hys.					
Repeatability)	Optional						
Total Error Band	050 °C max. ±0.5	5 %FS; -1070 °C n	nax. ±1.0 %FS				
Long Stability	-Standard: 0.1%F.S±	0.05%					
Working Temp	-30℃~85℃						
Storage Temp		; -30°C~80°C(customi:	zod)				
Medium Compatible	,	Stainless Steel or 1Cr	•	ataal			
Electronic Wire	2 Wires	3 or 4 Wires	3 Wires	4 Wires	3 Wires		
Electronic vviie	2 Wifes	3 Of 4 Wifes	5 Wiles	4 Wires	5 Wiles		
Output	4~20mA	4~20mA	0~5V,1~5V,	Rs485	4~20mA		
·	or 4-20mA+HART	or Double 4-20mA	0-10V		+Temp(Ω)		
Power Supply	7~30V/12~36Vdc	12~36Vdc	7~30V/12~36V	dc 10~30Vdc	c, 12~36Vdc		
Load Resistance	(U-10)/0.02 (Ω)	Current type: (U-10)/	0.02 (<i>Ω</i>); Voltage	type: >100K	Ω		
Insulate resistance	>100M Ω @100V dc						
Zero Temp. Drift	0.03%FS/℃ (≤100I	kPa), 0.02%FS/℃	(>100kPa)				
Body materials	316 stainless steel (s	tandard); 1Cr18Ni9Ti	stainless steel op	tional 316L			
Material of diaphragm	316L Stainless steel						
Filling oil	Silicon oil (standard	d); Fluorocarbon oil (Oxygen Service	s)			
Electronic connection	Silicon oil (standard); Fluorocarbon oil (Oxygen Services) -DIN43650 Hirschman Connector, 4-poles and IP65Plug: (4/5-poles) Type IP65; -Directly Outlet Cable Type IP65 (IP68 by customized).						
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)						
Explore Proof Grade	As drawing table listed						
Water Proof	IP65(HPT200-H,HPT200-C5); IP67 (HPT200-C8)						
Response time	≤10ms						
Endurance	>100 million cycles	s, 0100 %FS at 25°	С				
Options	Temperature Range by customized, Maximal range: -40+120 °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



Electronic Connection



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

	DIN 43650	DIN 43650 Connector					
		1	Vcc+				
	Current	2	S+				
		3	NC				
f r		4	Shield				
l e∰⊤na	Voltage	1	Vcc+				
		2	GND				
		3	S+				
		4	Shield				

	Plug:(4/5-pc	oles) Typ	oe .
		1	Vcc+
		2	S+
4	Current	3	NC
		4	Shield
	Voltage	1	Vcc+
3 2		2	S+
		3	GND
		4	Shield

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



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	E 7	S9	3	N	1	002
Electronic Connection	H= Hirchman DIN43650 EX= 1/2"NPT C8= Directly Outlet Cable C5= M12 (4-pin) Type G= LED digital display									
Pressure Range	Range reference to pressure raselection table code	ange								
Pressure Units	B=Bar P=PSI K=kPa M=MPA H=mH2O F=mFuel									
Pressure type	G=Gage A=Absolute N=Ne	gative								
Signal Output	E0= 1-5V (3 wires) E5= 4-20 E7= 0-10V (3 wires) E8= 0.5-4 E11=RS485 Modbus RTU (4w E21=Double 4-20mA for P+T E22=4-20mA for P and Ω for T X= By Customized	I.5V(3 wi ires)		0-5V (3 v	vires)					
Power Supply	S3=24 V DC (Standard) S5=12 V DC (for E0 ,E5,E6) S6=5V DC (for E8) S9=15~30V DC (for E7) S10=12~30 V DC (for E5) S30=7~30V DC (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		=G1/4"Fen =1/2" NP							
Other option		Flush d Standard	iaphragm Type		xygen Serv Fuel Filter	vices				
Accuracy	1=0.5%F.S 2=0.25%F.S	3=0.1%	F.S (high	cost) 4	=0.15%F.S	3				
Cable length	000=Non-Cable 001= Cable	1M 00	2= Cable 2	2M X= E	By Customi	zed				



Accessories

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

	Description	Order number
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	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
Digital Instrument	Attached indicator for transmitters standard version for Ex version	0006
	Cooling device For thread attachment	0004
	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

•E-mail: admin@holykell.com