

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

HPT200 series

Universal Industry Pressure Transducer & Transmitter

Applications

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

Characters

- Fully Welded Stainless Steel Housing
- 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 most extreme conditions. Even with the lowest temperatures when used outdoors, with extreme shock and vibration in machine building or with aggressive media in the chemical industry, this transmitter can meet all requirements.

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 customerspecific 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

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

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

Materials

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



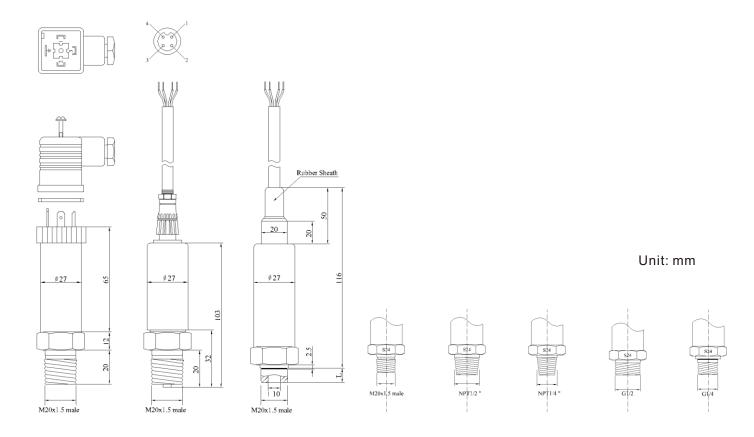
Specifications

Ambient Temperature: 25°C (unless otherwise specified)

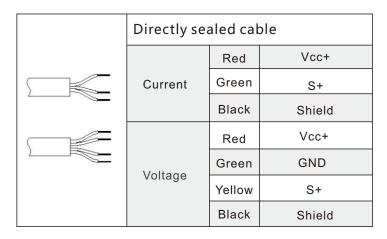
Parameter	HPT200-H/S8/C5										
Pressure Range	Gage /Absolute / Sealed gauge / Negative pressure optional.										
Safe Overload	200% F.S.(standard)										
Burst Pressure	300% F.S. (standard	300% F.S. (standard)									
Accuracy (Linearity Hysteresis Repeatability)	$\leq \pm 0.5\%$ F.S; $\leq \pm 0.25$ $\leq \pm 0.1\%$ F.S (Custom Including non-lin., re	nized)	nal								
Total Error Band	050 °C max. ±0.5	%FS; -1070 °C	max. ±1.0 %FS								
Long Stability	-Standard: 0.1%F.S	±0.05%									
Working Temp	-30°C~85°C										
Storage Temp	-10℃~50℃(standar	d); -30℃~80℃(cu	stomized)								
Storage Temp	-40°C~125°C										
Medium compatible	Compatible with 316	Stainless Steel o	r 1Cr18Ni9Ti stainless s	steel							
Electronic Wire	2 Wires	3 or 4 Wires	3 Wires	4 Wires	3 Wires						
Output	4~20mA Or 4~20mA+HART	4-20 mA or Double 4-20mA	0~5V ,1~5V, 0-10V	Rs485	4~20mA +Temp (Ω)						
Power Supply	7~30V/12~36Vdc	12~36 Vdc	7~30Vdc/15-36Vdc	10~30Vdc	12~36Vdc						
Load Resistance	(U-10)/0.02 (Ω)	Current type: (U-	-10)/0.02 (Ω); Voltage ty	/pe: >100K Ω							
Insulate resistance	>100M Ω @100V dc										
Zero Temp. Drift	0.03%FS/°C (≤100k	Pa), 0.02%FS/%	C (>100kPa)								
Body materials	316 stainless steel (standard); 1Cr18N	li9Ti stainless steel opt	ional							
Material of diaphragm	316L Stainless steel										
Filling oil	Silicon oil (standard); Fluorocarbon oi	l (Oxygen Services)								
Electronic connection	-DIN43650 Hirschm -Plug: (4/5-poles) Ty - Directly Outlet Cab	rpe IP65;									
Limiting Frequency	1 kHz										
Mechanical vibration	±20g										
Pressure connect port	G1/4''male, G1/2''m 1/2''NPT male and fe										
Explore Proof Grade	As drawing table list	ted									
Water Proof	IP65(HPT200-H,HP	T200-C5); IP67 (F	IPT200-C8)								
Response time	≤10ms										
Endurance	>100 million cycles	, 0100 %FS at 2	5℃								
Options	Oil Filling Fluorocar Pressure Connectio	bon oil (O2-compa n, Electrical Conn	aximal range: -40+12 Itible), olive-oil, lowest t ection Others on reques d level application (cus	temperature oil (st.	-55 °C)						



Dimensions and Drawing



Electronic Connections



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

	DIN 43650	Connec	tor
		1	Vcc+
		2	S+
	Current	3	NC
₩		4	Shield
		1	Vcc+
		2	GND
	Voltage	3	S+
<u> </u>		4	Shield

	Plug:(4/5-p	oles) T	уре
		1	Vcc+
		2	S+
4	Current	3	NC
((,,,,))		4	Shield
		1	Vcc+
3′ `2	Voltago	2	S+
	Voltage	3	GND
		4	Shield

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



How to Order

1. Pressure Range Selection Table:

01	0~0.1	02	0~0.15	03	0~2	04	0~0.25	05	0~0.3		06	0~0.4	07	0~0.5	08	0~0.6	09	0~1
10	0~1.6	11	0~2	12	0~2.5	13	0~3	14	0~4		15	0~5	16	0~6	17	0~60	18	0~70
19	0~100	20	0~160	21	0~200	22	0~250	23	0~300	:	24	0~350	2	0~400	26	0~600	27	0.8~1.2
28	-0.6~0	29	-1~0	30	-1~0.6	31	-1~1	32	-1~1.5		Х	By Custo	mize	d				

Kindly according to your application select suitable range code, Example: Code 15 = 5. Unit of measure select on the Part Number Selection Table. Example: Code B=Bar, that's 5 bar.

2. Part Number Selection Table:

Part Number Se	lection rable.										
HPT200 Selection Type	н		G	15	В	E 5	3	S 3	N	1	(
Electronic Connection	H= Hirchman DI EX= 1/2"NPT S= Directly Outl M= M12 (4-pole G= LED digital o	et Cable) Type									
Pressure Type	G=Gage A=Absolute N=Negative										
Pressure Measurment	Range reference selection table c		e range								
Pressure Unit	B=Bar P=PSI	K=kPa	M=MPA	H=mH2	20						
Output	E0= 1-5V (3 wire E7= 0-10V (3 wire E11= RS485 MC E21=Double 4-2 E22= 4-20mA fo X= By Customiz	res) E8= 0 DBUS RTU 20mA for P+ rP and Ω fo).5-4.5V J (4 wire +T	(2 wires) /(3 wires) es)		5V (3 wires)					
Pressure connection	3= 1/4" NPT ma 8= M20x1.5 male 26=1/4"-18 NPT X= By Customize	e Female	6=G1/4 9=G1/2	" male " male		1"Female 2'' NPT male					
Power Supply	\$3=24 V DC (Sta \$5=12 V DC (for \$6=5V DC (for E \$9=15~36V DC \$10=12~30 V DC \$26=8~36V DC \$30=7~30V DC	E0 ,E5,E6, 8) (for E7) C (for E5) (for E0 ,E6)		1,E22)							
Other option	C Anti-Corrosion X Withstand Xyle		Flush o tandard	liaphragm Type	0 0	xygen Servic	es				
Accuracy	1=0.5%F.S.	2=0.25%	%F.S 3	=0.1%F.S	(high cos	st)					
Cable length	0=Non-Cable	001= Ca	able 1M	002= Ca	able 2M	x= By Cus	tomized				



Accessories

	Description	Order number
# 10 10 10 10 10 10 10 10	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
	NPT adapter The 316 SS G1/2 adapter replaces the removable protective cap and converts the threads to 1/2"NPT male external, 1/4" female internal threads.	0001
	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
KOB KOB	Adapter Converter It is able to convert RS-232 signal to RS-485 balanced differential signal and extend the communication distance to 1.2km.It uses a particular pump to gain power from RS-232 signal (RTS, DTR, TXD) without initializing the RS-232 series interface. This interface converter does this without requiring any AC or DC power.	0005
(4888) (***)	Attached indicator for transmitters Standard version for Ex version	0006

Order information

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

05

•E-mail: admin@holykell.com

•Tel: +86 731 89873265 •Fax: +86 731 89873265