

HPT200-EX PRESSURE *DATASHEET*

HPT200-EX

Industrial Explosion-proof Type **Pressure Transmitter**

Applications

- · Oil, gas applications
- · Drilling platforms and pipeline
- Refineries and petrochemical industry
- · Natural gas compressors
- · Marine and vessel approved
- · Diesel tank level monitoring
- · Hydraulic and pneumatic system
- · Harsh and hazardous application

Features

- Imported chip, 0.25% F.S.
- · 316L stainless steel diaphragm Welded SUS316L Body construction
- High degree of EMC/EMI protection
- · Strong shock and erosion resistance
- · IP68 waterproof protection
- · Exia IIC T6, ATEX approved
- · Custom absolute and gauge (relative) versions









Profiles

The HPT200-EX intrinsically safe pressure transmitter is designed for use in hazardous environments, and offers a reliable pressure measurement, specifically for the high demands of industrial oil and gas applications. It has the explosion proof Exia IIC T6 ATEX approval.

It features all stainless steel wetted parts, an exceptionally high resistance to vibration, pressure spikes and moisture ingress. Furthermore, this pressure transmitter is IP68 rated. The fully sealed structure makes it ideal for installation where space in a hazardous environment is at a premium.

HPT200-EX pressure transmitter can be delivered with analog signals 4...20mA or RS485 RTU output signal, absolute and gauge (relative) pressure can be measured with measuring ranges from up to 600 bar.

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

Measuring range						
bar	-1 to 00 to 0.10 to 600					
Кра	-100 to 00 to 100 to 60000					
psi	-15 to 00 to1.50 to 9000					
mbar	-1000 to 00 to 1000 to 600000					

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

Materials

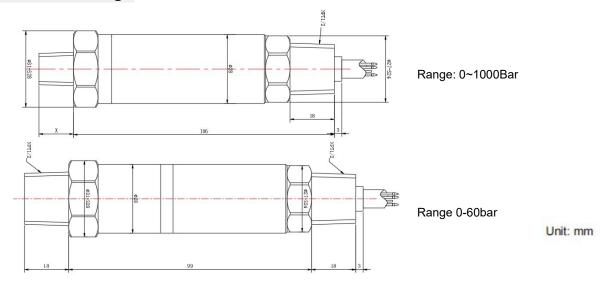
Wetted Parts	Standard	Optional
Case and sensor	Stainless steel 316L	316 SST/SUS321
Filled Oil	Silicone oil	Fluorocarbon oil
Cable	PVC	PTFE/PUR/PE

Specifications

Ambient Temperature: 25°C (unless specified)

Parameter	HPT200-EX							
Pressure Range	Gauge /Absolute / Negative pressure optional							
Overload	200% F.S.							
Burst Pressure	500% F.S.							
Accuracy	0.5%F.S.(Typical); 0.25%F.S.; 0.1%F.S.(by customized) at 25 $^{\circ}\mathrm{C}$							
(Linearity Hysteresis	Including non-lin., rep. and hys.							
Repeatability)	Optional							
Long-term Stability	≤ ±0.1%F.S. of span/year							
Working Temp.	-20°C~80°C (corrosive medium),-40°C~80°C (non-corrosive medium); -40~250°C by customized							
Compensation Temp.	0℃~50℃							
Storage Temp.	-40°C∼125°C(Nitrile rubber sealing ring); -30°C∼150°C(fluororubber rubber sealing ring)							
Medium Compatible	Compatible with 316L Stainless Steel							
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 RS485 Modbus RTU							
Power Supply	7-30Vdc 12-30Vdc 8-30Vdc 13-30Vdc 5Vdc±5% 7-30Vdc							
Load Resistance	(U-10)/0.02 (Ω)							
Insulate resistance	>100M Ω @100V							
Zero Temp. Drift	0.03%FS/℃(≤100kPa), 0.02%FS/℃(>100kPa)							
Pressure Connection	G1/4"male, G1/2"male, 1/4"NPT male, 1/2"NPT male optional							
Electrical connection	1/2"NPT male thread with cable outlet IP68.							
Endurance	>100 million cycles, 0…100 %FS at 25℃							
Explosion-proof rating	Ex(ia) II C6							
Mechanical vibration	±20g							
Certificate	CE RoHS ATEX							
IP rating	IP68							
Response time	≤10ms							
Options	Custom 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



Electrical Connection

	Cable-out				
		Red	U+		
	Current	Green	lout(U-)		
		Yellow			
		Red	U+		
	Voltage	Green	Vout		
		Black	U-		
		Yellow	≟ Connect to earth ground		
		Red	U+		
		Black	U-		
		Green	RS485A		
	RTU Modbus	Blue	RS485B		
		Yellow	≟ Connect to earth ground/Black		

	F	Hirschmann connector						
		Pin 1	U+/Red					
		Pin 2	lout(U-)/Green					
	Current	Pin 3	1					
	Guirone	Pin 4	≟ Connect to earth ground /Black					
6A		Pin 1	U+/Red					
110V N	Voltage	Pin 2	U-/Black					
		Pin 3	Vout/Green					
		Pin 4	1					
		Pin 1	U+/Red					
	RS485	Pin 2	U-/Black					
	RTU Modbus	Pin 3	RS485A/Green					
		Pin 4	RS485B/Yellow					

Pressure Connection	ıs			
M20x1.5 male	1/2" NPT male	1/4" NPT male	G1/2" male	G1/4" male
M20x1.5 male	1/2" NPT	1/4" NPT	S24 G1/2"	S24 G1/4"

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				
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 Custom	ized	

Kindlyaccording to your application select suitable range code , Example: code 08 = 10. Unit of measure select on the Part Number Selection Table . Example: Code B=Bar , that's 10 bar.

2. Part Number Selection Table:

200 Selection Type	EX	04	В	G	E5	S11	3	N	1	
Electrical Connection	EX= 1/2"NPT X=By customized									
Pressure Range	Range reference to presselection table code	sure range								
Pressure Units	B=bar P=Psi ł M=MPa H=mH2O	<=KPa								
Pressure type	G=Gauge/Relative	A=Absolute								
Signal Output	E5=4-20mA(2 wire) E0 E8=0.5-4.5V(3 wire) E14=4-20mA+Hart (2 wind X= By Customized	6=0-5V(3 wire) re)	E11=R	0V(3 wir S485(M0 5-5V (3 v	DDBUS)					
Power Supply	S6=5Vdc S11=7-30Vdc S43=13-30Vdc	S10=12-30Vdc S12=8-30Vdc X=By customize	ed							
Pressure connection	1=7/16-20 UNF male 3= 1/4" NPT male 8= M20x1.5 male 10 =1/2" NPT male	2=7/16-20 UNF F 6=G1/4" male 9=G1/2" male X=By Customize								
Other option	C=Anti-corrosive Type X=Withstand Xylene	O=Oxygen Serv N=Standard Ty								
Accuracy	1=0.5%F.S. 2=0.25%F	F.S. 3=0.1%F.S.	. (by cus	tomized)						
Cable length	000=Non-Cable 00	1= Cable 1M	002= C	able 2M	X=	By Custon	nized			

Accessories

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

	Description	Order number
2002 Standards	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
	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. It's use for extend ground cable to control room.	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.lt 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
in the second se	Surge electrostatic protector Anti-surge ±2000V/±4000V, anti-static 18KV, suitable for protecting 4-20ma and RS485 circuits.	0014

Order information

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

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