

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

HPT200-EX

Industry 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 ,hazardous application

Features

- U.K. GE chips, 0.25% F.S.,
- 316L stainless steel diaphragm,
 Welded 316SS Body Construction Shock and erosion
- · High degree of EMC/EMI protection
- IP68 Ingress waterproof protection
- Exia IIC T6, and ATEX approval
- 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 approved explosion proof Exia IIC T6, and ATEX approval.

They feature all stainless steel wetted parts, an exceptionally high resistance to vibration, pressure spikes and moisture ingress. Furthermore, these pressure transmitters fulfil IP68. The compact yet rugged construction of these units makes them ideal for installation where space in a hazardous environment is at a premium.

Pressure transmitters can be delivered with analog signals 4... 20 mA or RS485 RTU output signal, absolute and gauge (relative) versions, measuring ranges from 0-1 to 0-600 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								
Kpa	-100 to 00 to 100 to 60000								
psi	-15 to 00 to 1.50 to 8705								
mbar	-100 to 00 to 1000 to 60000								

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 Cable	Silicone oil PVC	Fluorocarbon oil PTFE/PUR/PE



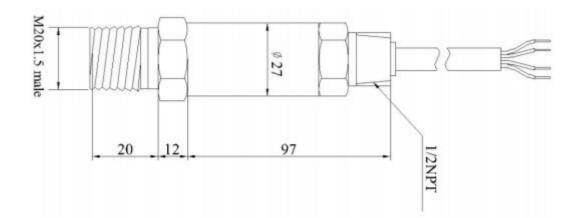
Specifications

Ambient Temperature: 25°C (unless specified)

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Parameter	HPT200-EX	
Pressure Range	Gauge /Absolute / Negative pre-	ssure 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)	
(Linearity Hysteresis	Including non-lin., rep. and hys.	
Repeatability)	Optional	
Long Stability	≤ ±0.1%F.S. of span/year	
Working Temp	-40°C~105°C	
Compensation Temp	0°C~50°C	
Storage Temp	-40°C~125°C	
Medium Compatible	Compatible with 316L Stainless	Steel
Electronic Wire	2 Wires	4 Wires
Output	4~20mA	RS485 MODBUS RTU
Power Supply	7~30 V DC	
Load Resistance	(U-10)/0.02 (Ω)	
Insulate resistance	>100M Ω @100V	
Zero Temp. Drift	0.03%FS/°C(≤100kPa). 0.02°	%FS/°C(>100kPa)
Pressure connection port	G1/4"male, G1/2"male, 1/4"NP	T male, 1/2"NPT male and female optional.
Electronic connection	1/2"NPT male thread with outlet	t cable IP68.
Endurance	> 100 million cycles, 0100 %F	FS at 25℃
Explosion-proof rating	Ex(ia) IIC6 (standard type)	
Mechanical vibration	±20g	
Certificate	CE RoHS ATEX	
IP rating	IP68	
Response time	≤10ms	
Options	Pressure Connection, Electrical	n oil (O2-compatible), olive-oil, lowest temperature oil (-55°C) Connection Others on request. sure and level application (customized)

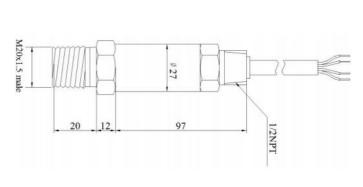


Dimensions and Drawing



Unit: mm

Electronic Connection



	Directly sealed cable						
_		Red	Vcc+				
	Current	Green	S+(Signal)				
		Black	GND&Shield				
		Red	Vcc+				
	Digital	Green	Vcc-&0Vcc				
	Digital	Yellow	RS485A				
		Blue	RS485B				

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

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	0~0.05	07	0~0.35	13	0~0.9	19	0~5	25	0~30	31	0~200	37	0~600	43	-1~1.5		47	-1~10
02	0~0.1	08	0~0.4	14	0~1	20	0~6	26	0~35	32	0~250	38	0.8~1.2	44	-1~3		48	-1~15
03	0~0.15	09	0~0.5	15	0~2	21	0~10	27	0~40	33	0~300	39	-0.6~0	45	-1~5		49	-1~20
04	0~0.2	10	0~0.6	16	0~2.5	22	0~16	28	0~50	34	0~350	40	-1~0	46	-1~9			
05	0~0.25	11	0~0.7	17	0~3	23	0~20	29	0~100	35	0~400	41	-1~0.6	X	By Cust	omi	zed	
06	0~0.3	12	0~0.8	18	0~4	24	0~25	30	0~160	36	0~500	42	-1~1		•			

Kindly according to your application select suitable range code , Example: code 21 = 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	E 5	S 3	3	N	1	0(
Electronic Connection	EX= 1/2"NPT or by customized									
Pressure Range	Range reference to pressure selection table code	range								
Pressure Units	B=bar P=Psi K=KPa M=	MPa H=m	H2O							
Pressure type	G=Gauge/Relative A	=Absolute								
Signal Output	E5=4-20mA E11=RS485 (MODBUS rtu)									
Power Supply	S3=24 V DC (Typical) S15=12~30 Vdc									
Pressure connection	3= 1/4" NPT male 6=G 8= M20x1.5 male 9=G	16-20UNF Fe 1/4" male 1/2" male By Customiz								
Other option		=Oxygen Ser =Standard Ty								
Accuracy	1=0.5%F.S. 2=0.25%F.S.	3=0.1%F.S.	(by cus	stomized)						
Cable length	000=Non-Cable 001= Ca	able 1M	002= C	able 2M	X= By	Customiz	ed			



Accessories

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

	Description	Order number
CODE WAS ARRESTED TO THE PARTY OF THE PARTY	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
888.	Attached LED indicator for transmitters standard version	0006
	Damper Use for protection pulse pressure to destroy sensor.	0025
845.61	Attached LCD indicator for transmitters standard version	0007
	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. 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
	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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