

TECHNOLOGY

HOLYKELL®

HPT200HT
PRESSURE
• DATASHEET •

1. Pressure Measurement 2. Level Measurement 3. Temperature Measurement
4. Flow Measurement 5. Display & Control Instruments
6. Wireless Monitoring System 7. Velocity Measurement

HPT200HT

High Temperature Industrial Pressure Transducer & Transmitter

Applications

- Biotechnology
- Food Industries
- Medical, Pharmaceutical
- Steam
- Oil & Gas
- Boiler industry
- Steel Manufacturing
- Chemi-industry
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Features

- With Sapphire pressure sensors for max 400 °C
- Two times range standard overload
- Four times range burst pressure
- Fully welded stainless steel housing
- Surge (lightning) protection
- EMI/RFI Protection
- Zero point and span adjustable
- CE ATEX RoHS certificate approved

Profiles

HPT200HT High Temperature Pressure Transmitter/Transducer uses high quality diffused silicon pressure sensor and can be used for media temperatures up to 400°C. The pressure, acting onto the flush diaphragm, is transferred over an oil-filled capillary onto the silicon measuring cell. The capillary has the function of a cooling spiral, allowing media temperatures of up to 200°C for highly aggressive media.

HOLYKELL offers pressure ports in different materials. Hard-line cables are recommended for operating temperatures above +200°C. The cable can be welded to the sensor for operation in pressurized environments. All of these features ensure reliable operation in high temperature environments.

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



Measuring range

bar	-1 to 0..0 to 0.1...0 to 2000
Kpa	-100 to 0..0 to 100...0 to 200000
psi	-15 to 0..0 to 1.5...0 to 30000
mbar	-1000 to 0..0 to 100...0 to 2000000

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

Materials

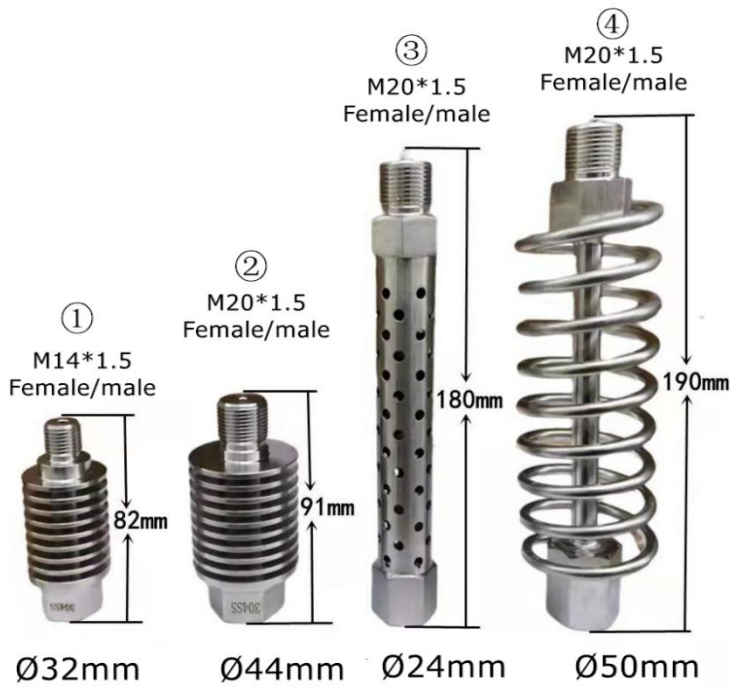
Wetted Parts	Standard	Optional
Case	Stainless steel 316L	316L SST/SUS321
Sensor	Diffused silicon	Sapphire
Temp.	-20 to +125°C	-20 to +200°C

Specifications

Ambient Temperature: 25°C (unless specified)

Parameter	HPT200HT				
Pressure Range	Gauge pressure; Absolute pressure; Sealed gauge pressure optional				
Overload	200% F.S				
Burst Pressure	500% F.S				
Accuracy (Linearity Hysteresis, Repeatability)	≤ ±0.5%F.S at 25°C including non-lin., rep. and hys.				
Long-term Stability	0.2%F.S±0.05%/year				
Medium Temp.	-50°C to 200°C; -50°C to 250°C; -100°C to 50°C; 50°C to 300°C; -100°C to 400°C				
Ambient Temp.	-10°C to +80°C				
Cooling Device	With cooling device				
Storage Temp.	-40°C to +85°C				
Temp. Compensation	0°C to +80 °C				
Medium Compatible	Compatible with 316L Stainless Steel or 1Cr18Ni9Ti stainless steel				
Electrical Wire	2 Wires		3 or 4 Wires		
Signal Output	4-20 mA	0-10 V	0~5V	1-5V	0.5-4.5V Ratiometric
Power Supply	12-30 V DC	13-30 V DC	8-30 VDC	8-30 VDC	5 VDC
Load Resistance	≤(U-8)/0.02 Ω		≥ 100 KΩ		
Insulate Resistance	>100M Ω @100V				
Electric Strength	500V@60 second				
Vibration/impact	10g/5~2000Hz, Axes X/Y/Z 20g sine 11ms				
Zero Temp. Drift	0.01%FS/°C				
FS Temp. Drift	0.005%FS/°C				
Electrical Connection	DIN Hirschmann Terminal Box 4-pin and IP65. Direct 2 meters cable IP67 optional				
Pressure Connection	G1/4"male, 1/4"NPT male, G1/2"... optional. (on request)				
IP Rating	IP65				
Response Time	≤20 ms(Current and voltage signals)				
Certificate	CE, ROHS				

Dimensions and Drawing



- Note:
- ① Temperature range: -50°C to 200°C, pressure resistance ≤100 MPa
 - ② Temperature range: -50°C to 250°C, Pressure resistance ≤100 MPa
 - ③ Temperature range: -100°C to 50°C; 50°C to 300°C, Pressure resistance ≤40 MPa
 - ④ Temperature range: -100°C to 400°C, Pressure resistance ≤40 MPa

Electrical Connection

	DIN 43650 Connector		
	Current	1	U+
		2	Iout(U-)
		3	NC
		4	⊥ Connect to earth ground
	Voltage	1	U+
		2	U-
		3	Vout
4		⊥ Connect to earth ground	

Pressure Connections				
M20x1.5 male	1/2" NPT male	1/4" NPT male	G1/2" male	G1/4" male
<p>M20x1,5 male</p>	<p>1/2" NPT</p>	<p>1/4" NPT</p>	<p>G1/2"</p>	<p>G1/4"</p>

How to Order

1. Range Selection Table:

01	-1~65	07	0~6	13	0~35	19	0~160	25	0~500	31	0~1800
02	-1~125	08	0~10	14	0~40	20	0~200	26	0~600	32	0~2000
03	0~1	09	0~16	15	0~50	21	0~250	27	0~1000		
04	0~2	10	0~20	16	0~60	22	0~300	28	0~1200		
05	0~3	11	0~25	17	0~70	23	0~350	29	0~1400		
06	0~5	12	0~30	18	0~100	24	0~400	30	0~1600	X	By Customized





Kindly according 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	HT	07	B	G	E0	S12	3	1	1	002
Electrical Connection	HT=Hirschmann DIN43650 High Temp.									
Pressure Range	Range reference to pressure range selection table code									
Pressure Unit	B=Bar P=PSI K=kPa M=MPA H=mH2O									
Pressure Type	G=Gage/Relative A=Absolute									
Signal Output	E0=1-5 V(3 wire) E5=4-20 mA(2 wire) E6=0-5 V(3 wire) E8=0.5-4.5 V ratiometric(3 wire) E7=0-10 V(3 wire) X=By customized									
Power Supply	S6=5 V DC S10=12-30 VDC S43=13-30 V DC S12=8-30 V DC X=By customized									
Pressure Connection	3= 1/4" NPT male 4= 1/4"NPT Female 6=G1/4" male 7=G1/4" Female 8= M20x1.5 male 9=G1/2" male 10=1/2" NPT male X= By customized									
Working Temp.	1= Temp. range: -50°C to 200°C, pressure resistance ≤100 MPa 2=Temp. range: -50°C to 250°C, Pressure resistance ≤100 MPa 3=Temp. range: -100°C to 50°C; 50°C to 300°C, Pressure resistance ≤40 MPa 4=Temp. range: -100°C to 400°C, Pressure resistance ≤40 MPa									
Accuracy @25C	1=0.5%F.S X= By customized									
Cable Length	000=Non-cable 001= Cable 1 m 002= Cable 2 m X= By customized									

Accessories

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

	Description	Order number
	<p>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.</p>	0008
	<p>Site LED display unit Attached LED indicator for transmitters standard version</p>	0006
	<p>Site LCD display unit Attached LCD indicator for transmitters standard version</p>	0007
	<p>Terminal box The terminal box, with IP 67 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.</p>	0003

Order information

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