TECHNOLOGY

HOLYKELL®

HPT200-HT

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

HPT200-HT

High Temperature Industrial Pressure Transducer & Transmitter

HPT200-HT(M) HPT200-HT(N)

Applications

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

Features

- With Sapphire pressure sensors for max 200 ℃
- 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

HPT200-HT High Temperature Pressure Transmitter/Transducer uses high quality diffused silicon pressure sensor or sapphire pressure sensor and can be used for media temperatures up to 200°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 to1.5…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

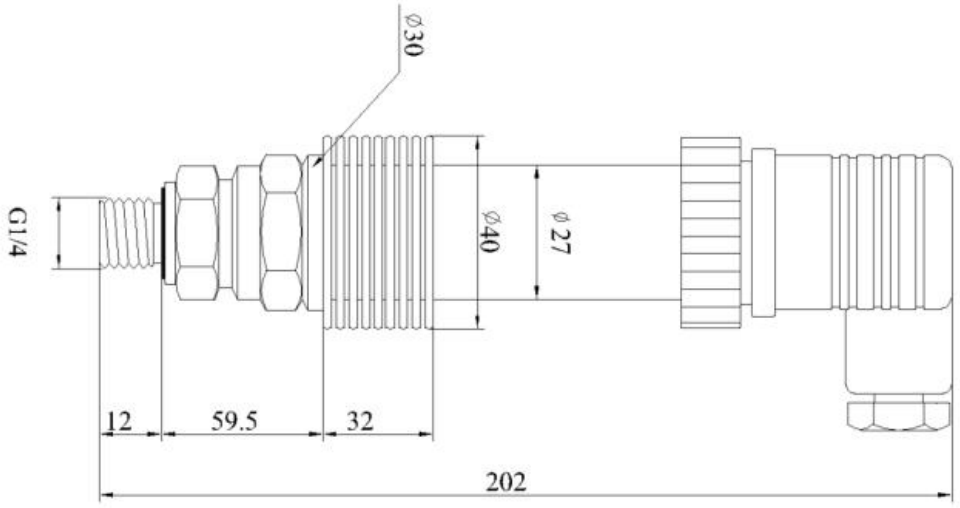
Wetted Parts	Standard	Optional
Case	Stainless steel 316L	316L SST/SUS321
Sensor	Diffused silicon	Sapphire
Temp.	-20℃~125℃	-20℃~200℃

Specifications

Ambient Temperature: 25°C (unless specified)

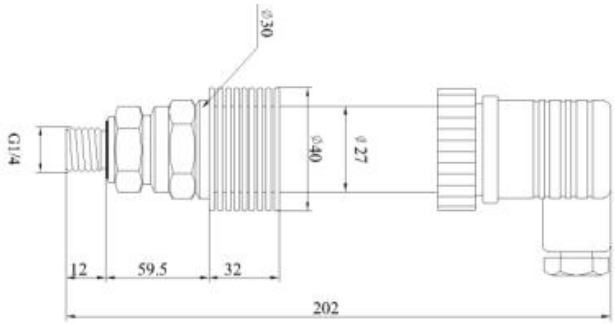
Parameter	HPT200-HT				
Pressure Range	Gauge pressure; Absolute pressure; Sealed gauge pressure optional.				
Overload	200% F.S.				
Burst Pressure	400% F.S.				
Accuracy (Linearity Hysteresis Repeatability)	≤ ±0.5%F.S at 25℃ Including non-lin., rep. and hys. Optional				
Long-term Stability	0.2%F.S±0.05%/Year				
Medium Temp.	-10℃~125℃; -10℃~150℃; -10℃~200℃; -10℃~250℃; -10℃~300℃ optional. -60℃~200℃ by customized.				
Ambient Temp.	-10~80℃				
Cooling device	With cooling device				
Storage Temp.	-20℃~105℃				
Temp. Compensation	0-80 ℃				
Medium compatible	Compatible with 316L Stainless Steel or 1Cr18Ni9Ti stainless steel				
Electrical Wire	2 Wires	3 or 4 Wires			
Output	4~20mA	0-10V	0~5V	1~5V	0.5~4.5V Ratiometric
Power Supply	12~30Vdc	13~30Vdc	8~30Vdc	8~30Vdc	5Vdc
Insulate resistance	>100M Ω @100V				
Electric strength	500V@60 second				
Loading resistance	(U-10)/0.02(Ω) for 4-20 mA				
Vibration/impact	10g/5~2000Hz, Axes X/Y/Z 20g sine 11ms				
Zero Temp. Drift	0.5%FS/℃(≤100kPa), 0.3%FS/℃(>100kPa)				
FS Temp. Drift	0.05%FS/℃(≤100kPa), 0.03%FS/℃(>100kPa)				
Electrical connection	DIN Hirschmann Terminal Box4 Pins and IP65. Direct 2 meters cable IP67 optional.				
Pressure connect port	G1/4''male, 1/4''NPT male, G1/2''... optional. (on request)				
Water Proof	IP65				
Response time	≤10ms				
Certificate	CE				

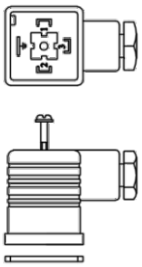
Dimensions and Drawing



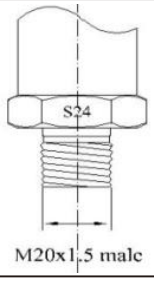
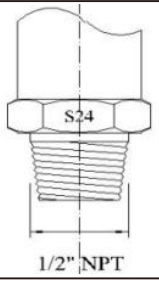
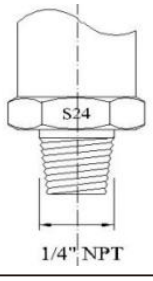
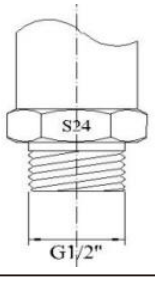
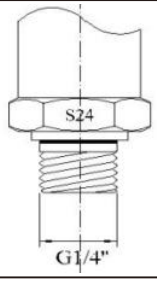
Unit: mm

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
				

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**	**S10**	**3**	**A**	**1**	**002**
Electrical Connection	HT=Hirschmann DIN43650 High Temp.									
Pressure Range	Range reference to pressure range selection table code									
Pressure Units	B=Bar P=PSI K=kPa M=MPA H=mH2O									
Pressure type	G=Gage/Relative A=Absolute									
Signal Output	E0=1-5V(3 wire) E5=4-20mA(2 wire) E6=0-5V(3 wire) E8=0.5-4.5V ratiometric(3 wire) E7=0-10V(3 wire) X=By customized									
Power Supply	S6=5Vdc S10=12~30Vdc S43=13~30Vdc S12=8~30Vdc 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.	A=Max 125 degree C (Accuracy ≤±0.5%F.S) B=Max 200 degree C (Accuracy ≤±0.5%F.S)									
Accuracy@25C	1=0.5%F.S X= By customized									
Cable length	000=Non-Cable 001= Cable 1M 002= Cable 2M X= By customized									

Accessories

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

	Description	Order number
	**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
	**Site LED display unit** Attached LED indicator for transmitters standard version	0006
	**Site LCD display unit** Attached LCD indicator for transmitters standard version	0007
	**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.	0003

Order information

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

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