

HPT607-E LEVEL • DATASHEET•

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



HPT 607 -E Series

Economical Submersible Deep Well and Borehole Level Transmitters

- Groundwater Monitoring
- · Deep well and borehole measurements
- Down Hole measurement
- Surface Water Monitoring
- · Control of Lift and Pumping Stations
- · Level Measurement in Storm Water
- · Dam's Operations

Features

- Germany pressure cell, 0.5% F.S.,
- 316L stainless steel diaphragm
- welded 316SS body construction shock and erosion
- Custom level ranges max 200m
- Slender design Ø16mm diameter body
- IP68 full sealed plastic waterproof design
- Optional Lifetime Lightning Protection
 Custom PU, PE or FEP cable length

Profiles

HPT607-E series submersible water level transmitters are designed with a slim 16mm diameter body to enable it to fit smaller ports, you can use it to measure liquid level and depth for water and waste water applications, at lift stations, Shipboard, in-ground /above ground tanks and with Inventory tank gauging.

They provide repeatable, precision depth measurements under the most adverse conditions. These transducers utilize Germany imported FS piezoresistive sensing element fitted into a 316L stainless steel housing with an integral welded 316 stainless steel barrier diaphragm.

HPT607-E provides highly accurate water level measurement for a wide variety of applications, including those in severe environments. The submersible pressure transducers have a dynamic temperature compensation system, enabling high accuracy measurements over a wide temperature range. It easily adapts to all data loggers, telemetry, monitoring equipment, and displays.

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



Measuring range

bar	0 to 0.520
inWC	0 to 200 8000
psi	0 to 5290
mH2O	0 to 5200

When choosing the FEP cable, only measuring ranges up to 0 ...10 bar, 0 ... 150 psi and 0 ... 100 mH2O are available. The given measuring ranges are also available in mbar, kPA and MPa

Materials

Wetted Parts	Standard	Optional
Case and sensor	316L stainless steel	Titanium
Protection cap	Nylon cap	Stainless steel
Cable	PE	PUR/FEP

Mounting position

Calibrated in vertical mounting position with pressure connection facing downwards.

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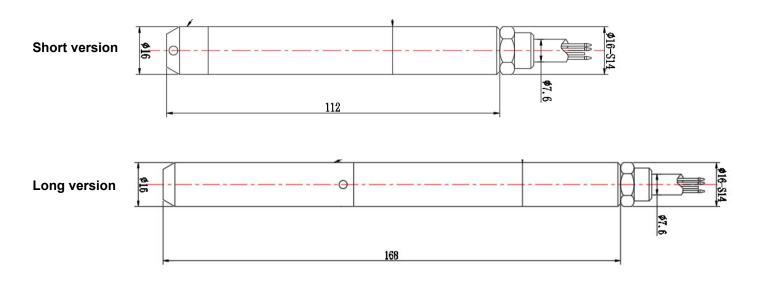
Specifications

Ambient Temperature: 25°C (unless specified)

Parameter	НРТ607-Е										
Pressure Range	0-2 Bar20 Bar / 0-20m200m H ₂ O Optional 0-0.5 Bar2Bar / 0-5m20m H ₂ O Optional (by customized)										
Overload	150% F.S.										
Burst Pressure	300% F.S.										
Accuracy	≤ ±0.5%F.S@25 degree C (Typical)										
(Linearity Hysteresis	Including non-lin., rep	o. and hys.									
Repeatability)	Optional										
Long-term Stability	0.15%F.S±0.05%										
Working Temp.	-40-80 ℃(non-corrosive medium)										
Storage Temp.	-40℃~80℃(Nitrile rubber sealing ring); -20℃~80℃(fluororubber rubber sealing ring)										
Temperature Compensation	0℃~50℃ (Full temp	span 1%F.S. ac	curacy)								
Medium compatible	Compatible with 316	_ Stainless Stee	I								
Electronic Wire	2 Wires	3 Wires			4 wires						
Output	4-20mA	0-5V;1-5V	0-10V	0.5-4.5V	RS485 Modbus RTU						
Power Supply	10-30Vdc	10-30Vdc	10-30Vdc	5Vdc±5%	10-30Vdc						
Life time	≥100,000,000 pressu	ire cycles									
Zero Temp. Drift	0.2%FS/°C(≤200kPa)	; 0.5%FS/°C(>2	00kPa)								
FS Temp. Drift	0.02%FS/°C(≤200kPa	a); 0.05%FS/°C(>200kPa)								
Electronic connection	Fixed cable with vent (5 layer grade seal, v compound)				O-ring seal+ sealant+ Encapsulating						
Response time	≤10ms										
Pressure Type	Gauge pressure and	absolute option	al.								
Certificate	CE Certificate										
EMC Standard	EN 61326-1:2013; El EN 61000-6-2:2005;										



Dimensions and Drawing



Unit: mm

Electrical Connections

		Direct seale	d cable	
			Red	U+
		Current	Green	lout(U-)
		-	Yellow	≟ Connect to earth ground
			Red	U+
	$\Box \not \in$	Voltage	Green	Vout
			Yellow	≟ Connect to earth ground
			Black	U-
			Red	U+
	and source		Black	U-
		RS485 RTU	Green	RS485A
		Modbus	Blue	RS485B
			Yellow	่≟ Connect to earth ground

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How to Order

1. Range Selection Table:

19	0~5	2	0~6	21	0~7	22	0~8	23	0~10	24	0~12	25	0~15	26	0~16	27	0~20
28	0~25	29	0~30	30	0~35	31	0~40	32	0~50	33	0~60	34	0~80	35	0~100	36	0~150
37	0~200	X	By Cust	omize													

Kindly according to your application select suitable range code , Example: code 30 = 35. Unit of measure select on the Part Number Selection Table . Example: Code H=m H₂O, that's 35m H₂O

2. Part Number Selection Table:

607E Selection Type	30		н	G	E5	S17	CW	N	1	020
Range	Range reference to rang table code	e selection								
Pressure & Level Units	H=m H2O(Min: 5mH2 B=bar(Min: 0.5bar Ma P=Psi(Min:7.5Psi; Ma	ax:20bar)	20)							
Pressure type	G=Gauge/Relative pro A=Absolute pressure		iversal)							
Signal Output	E5=4-20mA(2 wires) E7=0-10V(3 wires) E21=0.5-4.5V non-ration E8=0.5-4.5V ratiometric E11=RS485(MODBUS) X= By Customized		vires) 3 wires)							
Power Supply	S6=5Vdc X= By Customized	S17=10-30	Vdc							
Measuring Medium	CW=Water									
Others Function (Optional)	N=Standard Short Type L=Long Type									
Accuracy	1=0.5%F.S									
Cable length	020= Cable 20m	050= Cable 50	m 100=	Cable	100m	X= B	y Customi	zed		

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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
	Flange 4 holes, 316 SS flange, size can be customized	0001
	Locking flange For locking cables, made of aluminum alloy	0029
	Conduit adapter 316 SS 1/2" NPT male cable conduit adapter.Must be factory installed.	0011
A.	Terminal box The terminal box, with IP67 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
	Additional weight The additional weight increases the dead weight of the submersible pres- sure transmitter. It simplifies the lowering into monitoring wells, narrow shafts and deep wells. It effectively reduces negative environmental influences on the measuring result from the measured medium (e.g. turbulent flow). Stainless steel 316L, approx. 1.46kg, height (H) 70 mm	0009
KOB ROB	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
	Surge electrostatic protector Anti-surge ±2000V/±4000V, anti-static 18KV, suitable for protecting 4-20ma and RS485 circuits.	0014

Model / Measuring range / Output signal / Temperature measurement / Cable material / Cable length / Case / Lightning protection / Accessories

HOLYKELL TECHNOLOGY COMPANY LIMITED

•www.holykell.com• •E-mail: info@holykell.com •Tel: +86 731 89873265 •Fax: +86 731 89873646