



HPT 607

Submersible deep well and borehole Level Transducer & Transmitter

Applications

- · 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

- Imported GE pressure cell, 0.5% F.S.
- · 316L stainless steel diaphragm welded 316SS body construction shock and erosion
- · Custom level ranges max 500m
- · Slender design Ø19mm diameter body
- IP68 full sealed plastic waterproof design
- · Optional lifetime lightning protection
- · Custom PU, PE or FEP cable lengths













Profiles

HPT607 submersible water level transmitter is designed with a slim 19mm diameter body to enable it to fit small access ports, you can use it to measure liquid level and depth for water and waste water applications, at lift stations, ship-board, in-ground / above ground tanks and with inventory tank gauging.

It provides repeatable, precision depth measurements under the most adverse conditions. These transducers utilize the U.S.A imported GE piezoresistive sensing element fitted into a 316L stainless steel housing with an integral welded 316 stainless steel barrier diaphragm.

HPT607 water level sensor provides highly accurate water level measurement for a wide variety of applications, including those in severe environments. The submersible pressure transducer has a dynamic temperature compensation system, enabling high accuracy measurements over a wide temperature range. The water level sensor is easily adapted 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 0.05 ... 0 to 50 inWC 0 to 20 ...0 to 20000 psi 0 to 1.0...0 to 725 mH2O 0 to 0.5...0 to 500

When choosing the PTFE 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	Stainless steel 316L	Ceramic /Titanium alloy
Protection cap	Stainless steel 316	Titanium alloy
Cable	PUR/PE	FEP

Mounting position

Calibrated in vertical mounting position with pressure connection facing downwards.



Specifications

Ambient Temperature: 25°C (unless specified)

Parameter	HPT607										
Pressure Range	0-0.2 Bar50 Bar / 0-2m500m H₂O Optional * 80m max for SDI-12 signal										
Overload	150% F.S.										
Burst Pressure	500% F.S.										
Accuracy	≤ ±0.5%F.S(Typical); ≤ ±0.25%F.S(by customized) @25 degree C										
(Linearity Hysteresis	Including non-lin., rep. and hys.										
Repeatability)	Optional										
Long-term Stability	0.1%F.S±0.05%	0.1%F.S±0.05%									
Working Temp.	-40-80°C (non-corrosive m	nedium)									
Storage Temp.	-40°C~80°C (Nitrile rubber sealing ring); -20°C~80°C (fluororubber rubber sealing ring)										
Temp. compensation	0°C~50°C										
Medium compatible	Compatible with 316L Stainless Steel										
Electrical Wire	2 Wires	3 Wires				4 wires					
Output	4-20mA	0-5V;1-5V	0-10V	0.5-4.5V	SDI-12	RS485 Modbus RTU					
Power Supply	7-30Vdc	8-30Vdc	13-30Vdc	5Vdc±5%	12Vdc	3.5-36Vdc					
Life time	≥1×10 ⁸ pressure cycles										
Zero Temp. Drift	0.2%FS/°C(≤100kPa); 0.1	1%FS/°C(>100k	(Pa)								
FS Temp. Drift	0.01%FS/°C(≤100kPa); 0	.005%FS/°C(>1	00kPa)								
Electrical connection	Fixed cable with vented to (5 layer grade seal, water compound)			angular ring + (O-ring seal+seal	ant+ encapsulating					
Pressure mounting port	With stainless steel filte	er (Standard ty	pe)								
Response time	≤10ms										
Pressure Type	Gauge pressure and absolute optional										
Certificate	CE Certificate										
EMC Standard	EN 61326-1:2013; EN 61326-2-3:2013 EN 61000-6-2:2005; EN61000-6-4:2007+A1										
Remarks	Special request by cust	omized									

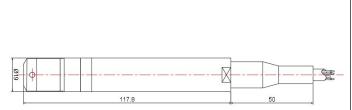


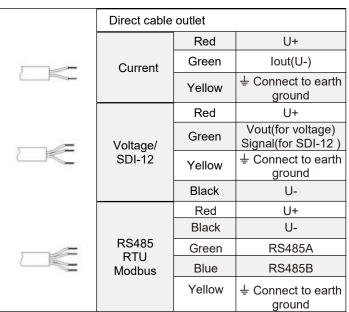
Dimensions and Drawing



Unit: mm

Electrical Connections







How to Order

1. Range Selection Table:

					11	0~2	12	0~2.1	13	0~2.2	14	0~2.3	1:	5 0~	2.4	16	0~2.5	17	0~3
18	0~4	1	9	0~5	20	0~6	21	0~7	22	0~8	23	0~10	24	1 0~	12	25	0~15	26	0~16
27	0~20	2	8	0~25	29	0~30	30	0~35	31	0~40	32	0~50	3	3 0~	60	34	0~80	35	0~100
36	0~150	3	7	0~200	38	0~250	39	0~300	40	0~500	Х	By Custom	ized						

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 H_2O , that's 35m H_2O

2. Part Number Selection Table:

607 Selection Type	30	Н	G	E5	S11	CW	N	2
Range	Range reference to range selection table code							
Pressure & Level Units	H=m H2O(Min: 2 mH2O; Max:500 mH2 B=Bar (Min: 0.2Bar Max: 50Bar) P=Psi (Min:3Psi; Max:725Psi) K= kPa (Min:20 kPa; Max:5000 kPa) I= inWC (Min: 80 inWC; Max: 20000 inW MB= mbar (Min:200mbar Max: 50000 m	VC)						
Pressure type	G=Gauge/Relative pressure type (universal A=Absolute pressure (customized)	ersal)						
Signal Output	E5=4-20mA(2 wires) E6=0-5V(3 w E7=0-10V(3 wires) E0=1-5V(3 w E21=0.5-4.5V non-ratiometric (default, 3 w E8=0.5-4.5V ratiometric (by customized, 3 E11=RS485(MODBUS) E16=SDI-12	vires) vires) 3 wires)	custo	mized				
Power Supply	S6=5Vdc S11=7-30Vdc S12=8-30Vdc S42=3.5-36Vdc S43=13-30Vdc S5=12Vdc	X= By custon	nized					
Measuring Medium	CW= Water							
Others Function (Optional)	N=Standard Type A=Anti-frequency conversion interference	ce						
Accuracy	1=0.5%F.S (Typical) 2=0.25%F.S (by customize	d)					
Cable length	002= Cable 2m 005= Cable 5m	100= Cab	le 100	m	X= By	customize	d	

Accessories

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

	Description	Order number
Was a second and a	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
	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 pressure 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
I 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

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