

HPT611 LEVEL • DATASHEET•

HPT 611

Anti Clog Attachment for Submersible Liquid Level Pressure Transmitter

Applications

- Sewage
- · Lift stations
- · Storm canals
- · Reservoirs / dams
- · Weirs, wells, pond, reservoir, and dam
- · Sludge, slurry
- · For sewage water tank level

Features

- · All 316L stainless steel construction for durability
- · Open double flange design
- Diaphragm is protected from physical damage and turbulence
- Added weight prevents movement of the transmitter
- · Cable withstand over 200 pounds of strain
- Ingress protection up to IP68

Profiles

HPT611 a fully submersible level transducer is the cost effective solution for sewage or waste water with viscous medium level measurement. It consists of the U.S.A imported GE piezoresistive sensing element encased in a 316L SS housing. Its all stainless steel, hermetically sealed housing make it suitable for immersion for a long time in most industrial sewage and waste water .

Each submersible sewage level transducer has "Steel cage" design offers the highest reliability in level measurement for severe high solids environments .The steel cage front end design allows for proper flow of liquids while keeping the sensor at the bottom of the tank or well. The "Steel cage" design gives full protection and allows sensing to sewage levels no matter how much debris/mud /sand or rags build up.

Ventilation tube in the cable automatically compensates for changes in atmospheric pressure . The vent is protected with a filter eliminating moisture in the transducer. The circuit design can the under the input and output short-circuit conditions to prevent reverse connection .

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













Measuring	range	
bar	010	
inWC	01000	
psi	0150	
mH2O	0100	

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	Stainless steel 316L	316L SST/SUS321
Sensor	Stainless steel 316	
Cable	PE	FEP/PUR

Mounting position

Calibrated in vertical mounting position with pressure connection facing downwards.



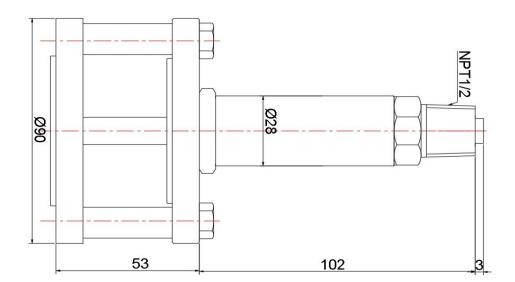
Specifications

Ambient Temperature: 25°C (unless specified)

Parameter	HPT611				
Overload	200% F.S.				
Burst Pressure	300% F.S.				
Accuracy	$\leq \pm 0.5\%$ F.S (typical); $\leq \pm 0.5\%$ F.S (typical);	.0.25%F.S (op	otional) @2	25 degree C	
(Linearity Hysteresis	Including non-lin., rep. ar	d hys.			
Repeatability)	Optional				
Long-term Stability	0.1%F.S±0.05%/year				
Working Temp.	-40-80°C (non-corrosive n	nedium)			
Storage Temp.	-40℃~80℃(Nitrile rubber	sealing ring);	-20℃~80℃	(fluororubber rubber sealing ring)	
Temperature Compensation	0℃~50℃				
Medium compatible	Compatible with 316L Sta	ainless Steel			
Electronic Wire	2 Wires	3 Wires			4 wires
Output	4-20mA	0-5V	0-10V	0.5-4.5V	RS485 Modbus RTU
Power Supply	7-30Vdc	8-30Vdc	13-30Vdc	5Vdc±5%	3.5-36Vdc
Insulate resistance	> 100M Ω@50V				
Zero Temp. Drift	0.5%FS/°C(≤100kPa)	; 0.25%FS/℃	(>100kPa)	
FS Temp. Drift	0.02%FS/°C (≤100kPa)	,0.01%FS/℃	(>100kPa))	
Electronic connection	Over molded and Fixed of	able with vent	ed tube, IP6	68	
Process Connect	90mm (3.5") flange				
Body Diameter	28 mm				
Material of housing	Stainless Steel				
Response time	≤10ms				
Pressure Type	Gage pressure and abso	lute pressure o	ptional		
Certificate	Exia IICT6 ,RoHS, CE	Certificate			
EMC Standard	EN 61326-1:2013; EN 61 EN 61000-6-2:2005; EN6		7+A1		
IP Rating	IP68				

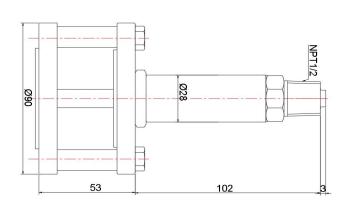


Dimensions and Drawing



Unit: mm

Electronic Connections



	Directly sealed cable					
		Red	V _{cc} +			
	Current	Green	S _i +			
		Yellow	Shield			
		Red	V _{cc} +			
	Voltage	Green	V _{out}			
		Yellow	Shield			
		Black	GND			
		Red	V _{cc} +			
	RS485 RTU	Black	GND			
		Green	RS485A			
	Modbus	Blue	RS485B			
		Yellow	Shield			

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How to Order

1. Range Selection Table:

		01	0~1.0	02	0~1.1	03	0~1.2	04	0~1.3	05	0~1.4	06	0~1.5	07	0~1.6	08	0~1.7
09	0~1.8	10	0~1.9	11	0~2	12	0~2.1	13	0~2.2	14	0~2.3	15	0~2.4	16	0~2.5	17	0~3
18	0~4	19	0~5	20	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
										X	By Custon	nized					

Kindly according to your application select suitable range code , Example: code 19 = 5.

Unit of measure select on the Part Number Selection Table . Example: Code $H=mH_2\ O$, that's $5mH_2\ O$

2. Part Number Selection Table:

611 Selection Type	19	н	G	E5	S11	1	1	002	
Range	Range reference to rar table code								
Pressure Unit	B=bar K=KPa H=mH₂O	P=Psi M=MPa							
Pressure type	G=Gage/Relative	A=Absolute							
Signal Output	E5=4-20mA(2 wires) E8=0.5-4.5V(3 wires) X= By Customized	E6=0-5V(3 wires)	E7=0-10V(3 E11=RS485	wires (MOD) BUS)				
Power Supply	S6=5Vdc S12=8-30Vdc S43=13-30Vdc	S11=7-30Vdc S42=3.5-36Vdc X= By Customize	d						
Pressure connection	1=Double 90mm(3.5") diameter flange							
Accuracy	1=0.5%F.S (Typical)	2=0.25%F.S o	ptional						
Cable length	000=Non-Cable 00	01= Cable 1M 00	02= Cable 2M		X= By C	ustomize	ed		



Accessories

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

	Description	Order number
DIST PROPERTY OF THE PROPERTY	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
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.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
FINAL PROPERTY OF THE PROPERTY	Surge electrostatic protector Anti-surge ±2000V/±4000V, anti-static 18KV, suitable for protecting 4-20ma and RS485 circuits.	0014

Ordering information

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

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