

## **HPT 611**

# Anti Clog Attachment for Submersible Liquid Level Pressure Transmitters

### 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

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### 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 a imported MEAS TE 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 's "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 protect prevent reverse connection .

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

Measuri	ng range
bar	1 to 0 0 to 10 to 20
inWC	-100 to 00 to 1000 to 2000
psi	-15 to 00 to 150 to 300
mH2O	-1000 to 00 to 10000 to 20000

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	Option
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.



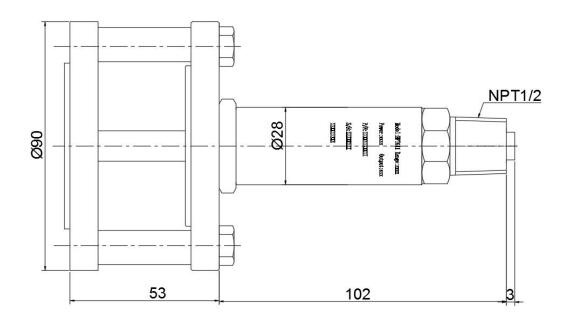
### Specifications

Ambient Temperature: 25°C (unless specified)

Parameter	HPT611					
Overload	200% F.S.					
Burst Pressure	300% F.S.					
Accuracy:	≤ ±0.5%F.S (st ≤ ±0.25%F.S (					
(Linearity Hysteresis	Including non-	lin., rep. and hys.				
Repeatability)	Optional					
Long Stability	Standard: 0.1%	F.S±0.05%				
Working Temp	-20℃~85℃					
Storage Temp	-40℃~125℃					
Temperature Compensation	0℃~70℃					
Medium compatible	Compatible w	th 316L Stainless	Steel			
	2 Wires		3 Wires		4 wires	
Electronic Wire Output	4~20mA	0~5V	0~10 V	0.5~4.5 V	Rs485	
Power Supply	7~30Vdc	9~30Vdc	15~30Vdc	5Vdc	10~30Vdc	
Insulate resistance	> 100M Ω@5	OV				
Zero Temp. Drift	0.05%FS/℃ (	≤100kPa ) ; 0.03	%FS/℃(>100k	Pa)		
FS Temp. Drift	0.02%FS/℃ (	≤100kPa ) ,0.01%	FS/℃ ( >100kP	a )		
Electronic connection	Over molded	and Fixed cable an	d water proof IP	68		
Process Connect	88 mm (3.5")	Flange, nylon no	se cap, DN50 l	Flange, DN80	, DN100 Flange option	al
Body Diameter	28 mm					
Material of housing	Stainless Ste	el				
Response time	≤10ms					
Pressure Type	Gage pressur	e and absolute pre	ssure optional.			
Certificate approving	Exia IICT6 ,F	RoHS, CE Certific	ate.			
EMC Standard		13; EN 61326-2-3: 2005; EN61000-6-				
Water Proof	IP68					
Weight	Net weight is a	bout 1.8KG, Full P	acking weight is	about 3.0KG (N	lot Including Cable)	

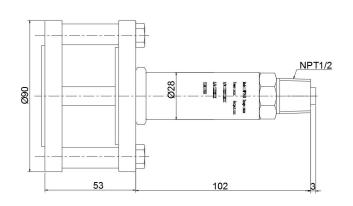


### Dimensions and Drawing



Unit: mm

### Electronic Connections



Directly	sealed cable
Red	S+
 Black:	S-(0Vcc)
Green/blue	Signal+
Red	S+
Black:	S-(0Vcc)
Green/blue	Signal+
Red	S+
Black:	S-(0Vcc)
Green/blue	Signal+

S=Signal, Vcc=Power Supply, GND=Vcc-&S-

Electronic Wires Connection:									
	Supply +	Supply –(0Vcc)	Signal+(RS485A)	Signal -(RS485B)	Ground Wire				
2wires 4-20 mA	Red	NA	Blue/Green	NA	Yellow				
3wires 0-5V,0-10V,0.5-4.5V,	Red	Black	Blue/Green	NA	Yellow				
4wires Rs485	Red	Black	Green	Blue	NA				



### How to Order

### 1. Range Selection Table:

0	0~0.5	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
0	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
1	3 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
2	7 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
3	6 0~150	37	0~200	38	0~250	39	0~300	40	0~500	Х	By Custon	nized					

Kindly according to your application select suitable range code, Example: code 19 = 35.

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:

HPT611 Selection Type	19	н	G	<b>E</b> 5	S3	1	1	002
Range	Range reference to range selection table code							
Pressure Unit	B=Bar P=PSI K=kPa M=MPA H=mH <sub>2</sub> O							
Pressure type	G=Gage A=Absolute							
Signal Output	E5=4-20mA(2 wires)							
Power Supply	S3=24Vdc(Standard) S6=5Vdc (for S9=15~36Vdc (for E7) S10=12~30V S17=10~30V							
Pressure connection	1=Double 88 mm(3.5") Diameter Flan	ge (Typical)	X= By	/ Custom	nized			
Accuracy	1=0.5%F.S (Typical) 2=0.25%F.S							
Cable length	000=Non-Cable 001= Cable 1M	002= Cable	2M	X= By C	Customiz	ed		

### Accessories

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

	Description	Order number
	·	Order number
ESSENCE STATE 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.	8000
(3)	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
	<b>Terminal box</b> The terminal box, with IP 67 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.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

### **Ordering information**

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