

# 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.



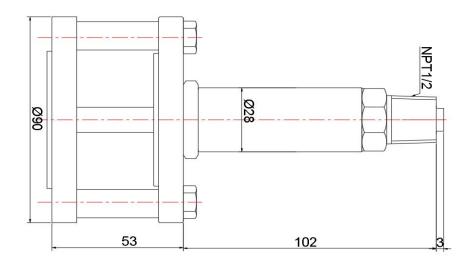
#### Specifications

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); $\leq \pm$	0.25%F.S (op	otional) @2	25 degree C	
(Linearity Hysteresis	Including non-lin., rep. an	d hys.			
Repeatability)	Optional				
Long-term Stability	0.1%F.S±0.05%/year				
Working Temp.	-40-80°C (non-corrosive m	nedium)			
Storage Temp.	-40°C~80°C (Nitrile rubber	sealing ring);	-20℃~80℃	(fluororubber rubber sealing r	ing)
Temperature Compensation	0℃~50℃				
Medium compatible	Compatible with 316L Sta	inless Steel			
Electrical 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/℃(≤100kPa);	; 0.25%FS/℃	( >100kPa	)	
FS Temp. Drift	0.02%FS/℃(≤100kPa)	,0.01%FS/℃(	( >100kPa )		
Electronic connection	Over molded and Fixed ca	able with vente	ed tube, IP6	88	
Process Connect	90mm (3.5") flange				
Body Diameter	28 mm				
Material of housing	Stainless Steel				
Response time	≤10ms				
Pressure Type	Gage pressure and absol	ute pressure o	ptional		
Certificate	Exia IICT6 ,RoHS, CE C	Certificate			
EMC Standard	EN 61326-1:2013; EN 61: EN 61000-6-2:2005; EN6		7+A1		
IP Rating	IP68				

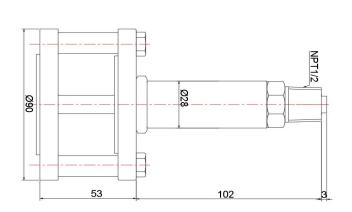


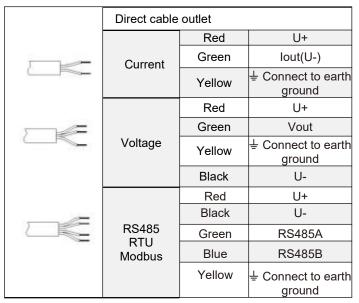
#### Dimensions and Drawing



Unit: mm

#### Electrical Connections







#### 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  $H=mH_2O$ , that's  $5mH_2O$ 

#### 2. Part Number Selection Table:

<b>611</b> Selection Type	19	н	G	<b>E</b> 5	<b>S11</b>	1	1	002	
Range	Range reference to rang table code	ge selection							
Pressure Unit	B=bar K=KPa H=mH₂O	P=Psi M=MPa							
Pressure type	G=Gage/Relative	A=Absolute							
Signal Output	E21=0.5-4.5V non-ration	E21=0.5-4.5V non-ratiometric (default, 3 wires) E8=0.5-4.5V ratiometric (by customized, 3 wires) E11=RS485(MODBUS)							
Power Supply	S6=5Vdc S12=8-30Vdc S43=13-30Vdc	S11=7-30Vdc S42=3.5-36Vdc X= By Customiz							
Pressure connection	1=Double 90mm(3.5")	diameter flange							
Accuracy	1=0.5%F.S (Typical)	2=0.25%F.S	optional						
Cable length	000=Non-Cable 00	1= Cable 1M	002= Cable 2I	М	X= By C	ustomize	ed		



#### Accessories

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

	Description	Order number
SCA STATE OF THE S	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
	Locking flange For locking cables, made of aluminum alloy	0029
	IP68 rated deep water level cable extender Mainly used to extend the cable of deep water level transmitter. Users can rewire it locally. It can work continuously for more than 10 years 500 meters underwater, and the safe tensile strength of the cables at both ends can reach 200N	0028
	Desiccant drying cartridge Desiccant Pack installed on Vented Transducer cable. The cartridge will have to be field replaced as site environment requires.	0010
	<b>Terminal box</b> 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
KOR	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

#### **Ordering information**

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

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