

HPT606 LEVEL • DATASHEET•

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



HPT 606 Submersible Flood & River Level Transducer& Transmitter

Applications

- Flood level monitor and alarm
- Wastewater treatment and biogas production
- Retention Ponds Monitoring
- Canals and Dams Monitor Systems
- · Level Measurement in Lakes, Pond and Rivers
- Level Measurement in waste water channels
- · Agricultural applications hydro-static level control

Features

- Imported GE pressure cell, 0.25% F.S
- 316L stainless steel diaphragm
 welded 316SS body construction shock and erosion
- Custom level ranges from 1m to 200m
- Special sediment filter to prevent to the tiny impurities clogging problem
- IP68 full sealed plastic waterproof design
- Optional Lifetime Lightning Protection
- Custom PU, PE or FEP cable lengths

Profiles

HPT606 a fully submersible level transducer suitable for flood and river level measurement. It consists of the U.S.A imported GE piezoresistive sensing element encased in a 316 SS housing. It's all stainless steel, hermetically sealed housing make it suitable for immersion for a long time in most river and flood water.

Each submersible sewage level transducer features a removable 30 um ceramic filter nose which can effective against the inside of the rivers and lakes sediment, stones and grasses into the liquid level sensor, and easy to clean. Ventilation tube in the cable automatically compensates for changes in atmospheric pressure. The vent is protected with a filter eliminating moisture in the transducer. It incorporates lightning and surge protection utilizing dual arrestor technology, to assure under the input and output short-circuit conditions and prevent reverse connection.

It can be used for rivers, flood, sewage, water, liquid measure and control of sewage pump station, water well, liquid tank, medicine, metallurgy, electricity, mine, city water supply and drainage and hydrology, especially used in the field of sewage level and pressure measurement.

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



Measuring range								
bar	0 to 0.1 0 to 20							
inWC	0 to 200 to 8000							
psi	0 to 1.00 to 300							
mH2O	0 to 1.00 to 200							

The given measuring ranges are also available in mbar, $\ensuremath{\mathsf{kPa}}$ and $\ensuremath{\mathsf{MPa}}$

Materials

Wetted Parts	Standard	Optional
Housing	Stainless steel 316L	Titanium alloy
Cable	PUR/PE	FEP

Mounting position

Calibrated in vertical mounting position with pressure connection facing downwards.

• DATASHEET • LEVEL MEASUREMENT

Specifications

Ambient Temperature: 25°C (unless specified)

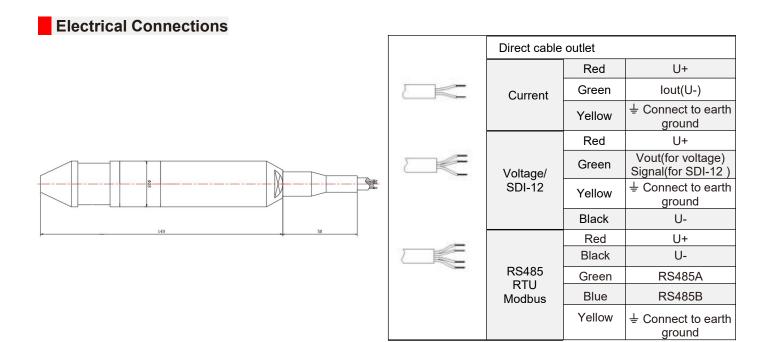
Parameter	НРТ606									
Pressure Range	0-0.1 Bar20 Bar / 0-1m200m H₂O Optional (See P1 page description) * 80m max for SDI-12 signal									
Overload	200% F.S.									
Burst Pressure	500% F.S.									
Accuracy	$\leq \pm 0.5\%$ F.S (Typical); $\leq \pm 0.25\%$ F.S; $\leq \pm 0.1\%$ F.S optional @25 degree C									
(Linearity Hysteresis	Including non-lin., rep. a	Including non-lin., rep. and hys.								
Repeatability)	Optional									
Long-term Stability	$\leq \pm 0.1$ % of span/year									
Working Temp.	-40-80°C (non-corrosive	medium)								
Storage Temp.	-40°C∼80°C(Nitrile rubb	er sealing ring);	; -20° ℃ ~80 °C(fl	uororubber rub	ber sealing ring)					
Temperature Compensation	0~50℃									
Medium compatible	Compatible with 316L Stainless Steel									
Electrical Wire	2 Wires	3 Wires				4 wires				
Output	4-20mA	1-5V;0-5V	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				
Polarity protection	yes	Pov	ver wires-Yes;	Signal Wires-	∕es, Power&Signal ∖	Vires-Without!				
Insulate resistance	> 100M Ω@100V									
Zero Temp. Drift	0.2%FS/℃ (≤100kPa)	;0.1%FS/℃(>100kPa)							
FS Temp. Drift	0.02%FS/℃(≤100kPa); 0.01%FS/℃	c (>100kPa)							
Process Connection	Submersible Type									
Electrical connection	Fixed cable with vented	tube and wate	r proof IP68							
Response time	≤10 ms									
Pressure Type	Gage pressure and abs	olute optional.								
Certificate	TUV RoHS and CE Cer	tificate								
EMC Standard		EN 61326-1:2013; EN 61326-2-3:2013 EN 61000-6-2:2005; EN61000-6-4:2007+A1								
Lightning Protection (optional functions)	Air conduction more that	an 8000V; exter	nal sensor mo	re than 4000 V	oltage protection.					
Cable optional	Cable materials are opt PE Cable (Water proof									



Dimensions and Drawing



Unit: mm



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
36	0~150	37	0~200							Х	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 $35m H_2O$.

2. Part Number Selection Table:

606 Selection Type	30		н	G	E5	S11	CW	Ν	1	003
Range	Range reference to rang table code	e selection								
Pressure & Level Units	H=mH2O(Min:1 mH20 B=bar(Min: 0.1bar Ma P=Psi(Min:1.5Psi; Ma	ax: 20bar)	20)							
Pressure type	G=Gage/Relative pres A=Absolute pressure		ersal)							
Signal Output	E5=4-20mA(2 wires) E E21=0.5-4.5V non-ration E8=0.5-4.5V ratiometric E11=RS485(MODBUS) E16=SDI-12 E0=1- X= By customized									
Power Supply	S6=5Vdc S11=7-30Vdc S43=13-30Vdc	S5=12Vdc S12=8-30Vdc X= By Customize	S42=3.5 ed	5-36Vd	lc					
Measuring Medium	CW=Normal Water	SW=Sewage	X=by cus	tomiz	ed					
Others Function (Optional)	N=Standard Type ELP=External Lightning	protection box								
Accuracy	1=0.5%F.S (Typical)	2=0.25%F.S (b	y customize	ed)						
Cable length	001= Cable 1m	002= Cable 2m	003=	Cable	e 3m	X= By o	customiz	ed		



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
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
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
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
	 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. Locking flange For locking cables, made of aluminum alloy 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 Desiccant drying cartridge Desiccant Pack installed on Vented Transducer cable. The cartridge will have to be field replaced as site environment requires. 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. 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 signed (RTS, DTR, TXD) without requiring any AC or DC power.

Ordering information

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

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