

HPT612 LEVEL • DATASHEET•

HPT 612

Submersible Liquid Level Pressure Transmitter

Applications

- · Irrigation Equipment
- · Sea Water Level Measurement and Control
- · Deep Well and Groundwater Monitoring
- · Vessel and Storage Monitor Systems
- · Control of Lift and Pumping Stations
- Surface Water Monitoring
- Dewatering

Features

- · GE pressure cell, 0.5% F.S.
- · 316L stainless steel diaphragm, welded 316SS body construction shock and erosion
- · Custom level ranges from 50cm to 100m
- 4-1/2 bits LED/LCD Screen Locally Display optional
- · IP68 full sealed plastic waterproof design
- · Optional Lifetime Lightning Protection
- · Custom PU, PE or FEP cable lengths

Profiles

HPT612 is a fully submersible level transducer with display suitable for liquid level and depth measurement. It consists of the U.S.A imported GE piezoresistive sensing element encased in a 316 SS housing. Its all stainless steel, hermetically sealed housing make it suitable for immersion for a long time in most industrial liquids and oils.

Each submersible pressure transducer features a removable nose cone at the sensor which protects the diaphragm from damage. Units come equipped with a 270-pound tensile strength shielded and vented cable. Ventilation tube in the cable automatically compensates for changes in atmospheric pressure above the tank. The vent is protected with a maintenance free filter eliminating particulate or water droplets from entering the transducer.

HPT612 incorporates lightning and surge protection utilizing dual arrestor technology, To assure under the input and output shortcircuit conditions to prevent reverse connection. It also eliminates both power supply surges and lightning ground strike transients.

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 10						
inWC	0 to 20 0 to 4000						
psi	0 to 1.0 0 to 145						
mH2O	0 to 0.5 0 to 100						

The given measuring ranges are also available in mbar, kPA and MPa

Materials

Wetted Parts	Standard	Optional
Case	Stainless steel 316	Titanium
Sensor	Stainless steel 316	Titanium
Cable	PUR/PE	FEP

Mounting position

Calibrated in vertical mounting position with pressure connection facing downwards.



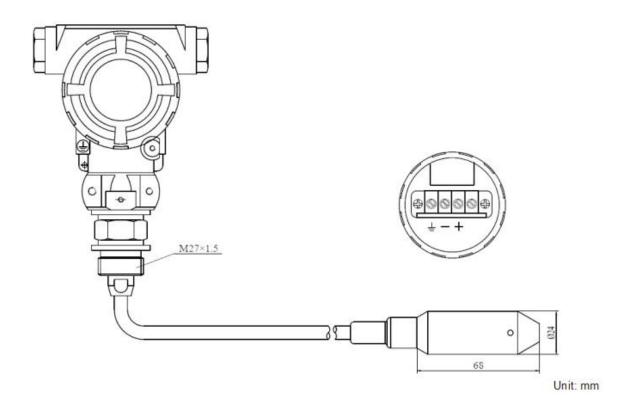
Specifications

Ambient Temperature: 25°C (unless specified)

Parameters	HPT612										
Overload	150% F.S.										
Burst Pressure	300% F.S.	300% F.S.									
Accuracy	≤ ±0.5%F.S (Typi	≤ ±0.5%F.S (Typical); ≤ ±0.25%F.S (by customized) @25 degree C									
Long-term Stability	/ 0.1%F.S±0.05%										
Working Temp.	-40-80℃(non-cor	rosive medium)								
Storage Temp.	-40°C~80°C (Nitrile	e rubber sealin	g ring); -20℃~80℃(fluororubber ru	ubber sealing ring)							
Temperature Compensation	0℃~50℃										
Medium compatible	Compatible with 3	316L Stainless	Steel								
Electronic Wire	2 Wires	3 Wires		5/8WiresTwo Relay Output or	4 wires						
Output	4-20mA	0-5V	0-10V	One Relay with 4-20mA	RS485 RTU	Modbus					
Power Supply	7-30Vdc	8-30Vdc	13-30Vdc	18-30Vdc	3.5-36Vdc						
Response time	≤10ms										
Alarm function	With sound alar	m output, opti	onal								
Local Display	Yes (LED 4-1/2b	its)									
Insulate resistance	> 100M Ω@50V										
Zero Temp. Drift	0.2%FS/℃(≤100	0kPa);0.1%l	FS/℃(>100kPa)								
FS Temp. Drift	0.02%FS/°C (≤10	00kPa),0.01%	%FS/℃(>100kPa)								
Certificate	Exia IICT6 and 0	CE Certificate									
IP Rating	Sensor water proof IP68; Electronic Indicator IP65										
Pressure Type	Gage pressure ar	Gage pressure and absolute pressure optional									
EMC Standard	EN 61326-1:2013 EN 61000-6-2:20										
Remarks	3.6V Li-battery wi Special application		s available (customized!) Customized								



Dimensions and Drawing



Electrical Connections

	Direct sealed cable							
		Red	U+					
	Current	Green	lout(U-)					
		Yellow	≟ Connect to earth ground					
		Red	U+					
	Voltage/ SDI-12	Green	Vout(for voltage) Signal(for SDI-12)					
		Yellow	≟ Connect to earth ground					
		Black	U-					
		Red	U+					
504,099	RS485	Black	U-					
	RTU	Green	RS485A					
	Modbus	Blue	RS485B					
		Yellow	≟ Connect to earth ground					



How to Order

1. Range Selection Table:

00	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
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
Х	By Custo	mized											•				

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 $5m\ H_2O$

2. Part Number Selection Table:

612 Selection Type	19	н	G	E 5	S11	N	N	1	0
Range	Range reference to range selectable code	ion							
Pressure Unit	B=Bar P=PSI MB=m H=mH2O F=m Fuel	bar							
Pressure type	G=Gage A=Absolute								
Signal Output	E5=4-20mA(2 wires) E6= 0-5V E7=0-10V(3 wires) E11=RS485 MODBUS RTU(4 w E23=Double 4-20mA+One Chan E35=Two Channels Relay Alarm X=By Customized	` ires) inel Relay ala	arm						
Power Supply	S11=7-30Vdc S12=8-30Vd S17=10-30Vdc S27=18-30V S10=12-30Vdc S23=3.6Vdc	dc S24=3.6	6Vdc Li Ba external 12						
Electronic Display	N=Standard Type (Without Indic LE=With LED Indicator LC=With LCD Indicator	ator)							
Others Function (Optional)	N=Standard Type (with short filt ANC=Anti-corrosion type (PVDF ELP=With external lightning pro 6=G1/4" male thread mounting NFC=Nylon material filter cover AL=With barometer and Absolut) TAP=Tirection box (for ype	PTFE mate tanium allo or 4-20mA	y material	probe	type)			
Accuracy	1=0.5%F.S(Typical) 2=0.2	5%F.S(by cu	ıstomized)						
Cable length	000=Non-Cable 001= Cabl	e 1M 002	= Cable 2	M X=	By Custo	mized			



Accessories

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

	Description	Order number
3332 Statements	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
Mos Mos	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

Ordering information

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

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