

HPT675S LEVEL • DATASHEET•

HPT675S Self-contained Water Level Recorder



Features:

- ★No cable leading out, strong underwater sealing;
- ★High quality and high stability pressure sensor;
- ★Internal battery & memory collect and store data regularly;
- ★Low power consumption: energy saving design of power management, standby power consumption < 5 μ A, acquisition power consumption 3mA;
- ★Full-parameter: real time monitoring of water level, temperature, pressure, battery power, time and other factors at the same time;
- ★Atmospheric pressure compensation mode is adopted;
- ★ Temperature compensation: full range digital calibration, and temperature error compensation in full temperature zone;
- ★ Electrical characteristics of sensor: over-voltage protection, surge voltage protection and power polarity reverse connection protection to avoid electrical damage caused by misoperation.

Applications:

- ★ Monitoring of groundwater level and temperature data
- ★ Flood control level monitoring in city
- ★ Real time monitoring of reservoir and dam water level
- ★ Monitoring of lake and surface runoff level
- ★ Unattended hydrological monitoring station
- ★ Real time monitoring of liquid level in tank
- ★ On site liquid level monitoring of industrial control system

Profile

HPT675S self-contained water level recorder is a groundwater monitoring instrument powered by internal battery, which can be used to record water depth (pressure) and temperature for a long time. It's made of stainless steel or titanium alloy, The water level recorder includes water level and temperature sensors, built-in large capacity flash memory and long-life lithium battery. All functions are integrated to a 26mm diameter metal shell instrument, suitable for surface water, groundwater and marine environment water level and temperature measurement.

It's widely used in petroleum, chemical industry, power station, water conservancy, city flood control and city water supply and drainage, etc.

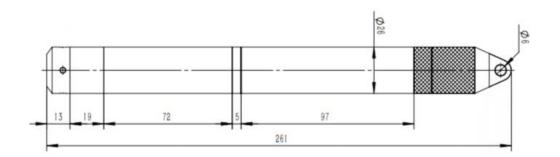


Specifications

Model Parameter	HPT675S				
Pressure Range	0~10m H ₂ O0~200m H ₂ O				
Overload	200% F.S.				
Burst Pressure	300% F.S.				
Level Accuracy	0.05%F.S(0~50℃)				
Level resolution	1mm				
TEMP. accuracy	±0.5℃				
TEMP. resolution	0.1℃				
Stability	0.05%F.S/year				
Operating temperature	-10∼80°C				
Temp. compensation range	0~50°C				
Battery life	10 years (once/60 min)				
Memory capacity	>40000 pcs records(+water temp.+battery voltage+time)				
Real-time clock	<±5 min/year				
Supply voltage	External voltage:5-30Vdc(typical 24V); Internal battery: 2.7-3.6Vdc				
Power protection	Protection against reverse connection, and against 2KV surge and over voltage				
Output	RS485 / MODBUS-RTU protocol, through the reader to download data to the computer				
Measuring medium	Compatible with 316L stainless steel and fluororubber				
Protection class	IP68				
Shell material	316L stainless steel, titanium alloy, optional				
Hoisting steel wire	304 stainless steel or 316L stainless steel				
Protection Grade	IP68				
Ambient vibration	Bear the vibration test specified in GB / T9359				
Free fall	Withstand the drop test specified in GB / t9359				
Electromagnetic environment	Comply with GB / t17626.8 Level 3				
Mean time between failures	Not less than 30000h				

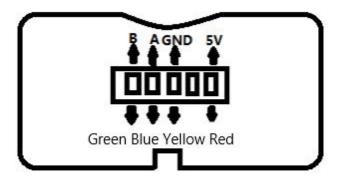


Dimension and Drawing



Electronic Connections

Color	Definition				
Green	RS485-				
Yellow	GND				
Blue	RS485+				
Red	24V+				





Order Codes Selection Table

675S		Self-contained submersible level logger										
	Range code	Pressure range	Ref.	Ref. Range co		Pressure range		Ref.				
	01	00.1 Bar/0-1mH ₂ O	G	3								
	02	00.2 Bar/0-2 mH₂O	G	15		03.5 Ba	ar / 0-35 mH₂O G/A					
	03	00.3 Bar/0-3 mH ₂ O	G	16		04 Ba	r / 0-40 mH₂O	G/A				
	04	00.4 Bar/0-4 mH ₂ O	G	17		04.5 Ba	ar / 0-45 mH ₂ O	G/A				
	05	00.5 Bar/0-5 mH₂O	G	18		05 Ba	r / 0-50 mH₂O	G/A				
	06	00.6 Bar/0-6 mH ₂ O	G	19		05.5 Ba	ar / 0-55 mH ₂ O	G/A				
	07	00.7 Bar/0-7 mH ₂ O	G	20		06 Ba	r / 0-60 mH₂O	G/A				
	08	00.8 Bar/0-8 mH₂O	G	21		07 Ba	r / 0-70 mH₂O	G/A				
	09	00.9 Bar/0-9 mH₂O	G	22		08 Ba	r / 0-80 mH₂O	G/A				
	10	01 Bar/0-10 mH ₂ O	G/A	23		09 Ba	r / 0-90 mH₂O	G/A				
	11	01.5 Bar / 0-15 mH ₂ O	G/A		24	010 Ba	r / 0-100 mH₂O	G/A				
	12	02 Bar / 0-20 mH ₂ O	G/A	25		020 Ba	r / 0-200 mH₂O	G/A				
	13	02.5 Bar / 0-25 mH ₂ O	G/A									
	14	03 Bar / 0-30 mH ₂ O	G/A	Х		Cu	stomized					
		Code			Pressure type							
		Α		Absolute pressure (standard type)								
			Code		Power Supply 3.6Vdc Internal battery							
			S24									
			S25		5-30Vd	5-30Vdc (typical 24V) external voltage						
			Х		Other customized							
				Code		Signal Output RS485/MODBUS-RTU						
				E11								
				Х		By Customized						
					C	Code Accuracy 6 ±0.05%F.S 3 ±0.1%F.S						
						X By Customized						
675S	25	A	S25	E11		3 Others remarks						

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