

TECHNOLOGY

HOLYKELL®

HPT675S

LEVEL

• DATASHEET •

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

HPT675S Self-powered Water Level Recorder



Features:

- ★ Minimum sampling interval is 1 second;
- ★ High-quality, highly stable pressure sensing elements used;
- ★ High accuracy and resolution
- ★ Built-in battery, capable of scheduled data collection and storage, easy to replace;
- ★ Simultaneous monitoring and recording of water level, temperature, water pressure, time, and other factors;
- ★ Standard signal RS485, easy to download data;
- ★ Full-range digital calibration, temperature error compensation across the entire temperature range;
- ★ Over-voltage /surge voltage /reverse polarity protections to prevent electrical damage caused by operational errors

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
- ★ Other environmental monitoring

Profile

HPT675S is a self-powered water level monitoring device with an internal battery, designed for long-term recording of water depth (pressure) and temperature. It contains water level and temperature sensors, a built-in large-capacity FLASH memory, and a high-capacity, long-life lithium battery. The battery is easily replaceable, making it suitable for water level and temperature measurements in surface water, groundwater, and marine environments.

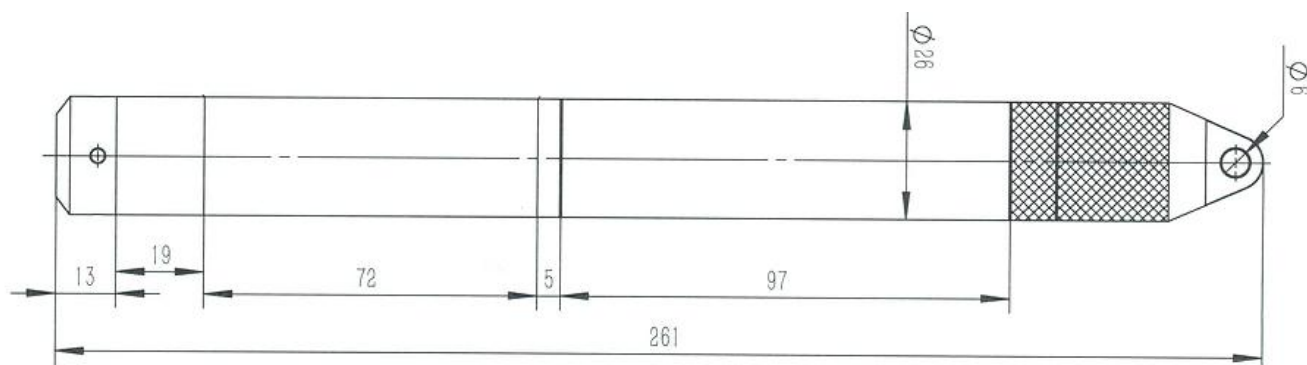
This model is a gauge pressure product, and an optional matching barometer can be selected for atmospheric pressure compensation, enhancing system accuracy.

Specifications

Model	HPT675S
Parameter	
Measuring Range	0~10m H ₂ O...300m H ₂ O
Overload	200% F.S.
Sensitive element	High stability, low drift in long term use
Level Accuracy	0.05%F.S.(0~50℃)
Level resolution	1mm
TEMP. accuracy	±0.2℃
TEMP. resolution	0.1℃
Stability	0.05%F.S./year
Operating temperature	-10~80℃
Temp. compensation range	0~50℃
Battery life	10 years(once/60 min)
Memory capacity	128M built-in storage, can record 1,000,000 data (time + temperature + pressure + water level)
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, against 2KV surge and over voltage
Output	RS485 to USB. Download data to computer via adapter
Cable material	PVC or polyurethane
Shell material	Titanium alloy/316L
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

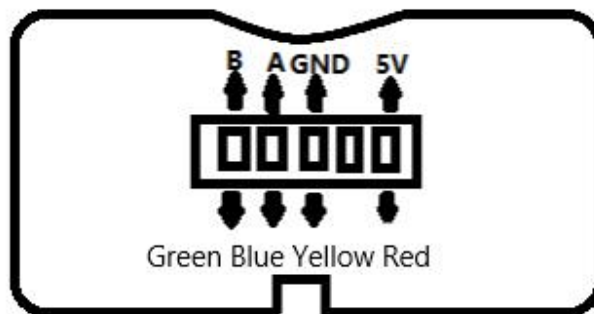
Dimension and Drawing

Unit, mm



Electronic Connections

Color	Definition
Green	RS485-
Yellow	GND
Blue	RS485+
Red	5V+



Order Code Selection Table

675S	Self-powered submersible level logger					
	Range code	Pressure range	Ref.	Range code	Pressure range	Ref.
	01	0....0.1 Bar/0-1mH ₂ O	G			
	02	0....0.2 Bar/0-2 mH ₂ O	G	15	0....3.5 Bar / 0-35 mH ₂ O	G/A
	03	0....0.3 Bar/0-3 mH ₂ O	G	16	0....4 Bar / 0-40 mH ₂ O	G/A
	04	0....0.4 Bar/0-4 mH ₂ O	G	17	0....4.5 Bar / 0-45 mH ₂ O	G/A
	05	0....0.5 Bar/0-5 mH ₂ O	G	18	0....5 Bar / 0-50 mH ₂ O	G/A
	06	0....0.6 Bar/0-6 mH ₂ O	G	19	0....5.5 Bar / 0-55 mH ₂ O	G/A
	07	0....0.7 Bar/0-7 mH ₂ O	G	20	0....6 Bar / 0-60 mH ₂ O	G/A
	08	0....0.8 Bar/0-8 mH ₂ O	G	21	0....7 Bar / 0-70 mH ₂ O	G/A
	09	0....0.9 Bar/0-9 mH ₂ O	G	22	0....8 Bar / 0-80 mH ₂ O	G/A
	10	0....1 Bar/0-10 mH ₂ O	G/A	23	0....9 Bar / 0-90 mH ₂ O	G/A
	11	0....1.5 Bar / 0-15 mH ₂ O	G/A	24	0....10 Bar / 0-100 mH ₂ O	G/A
	12	0....2 Bar / 0-20 mH ₂ O	G/A	25	0....20 Bar / 0-200 mH ₂ O	G/A
	13	0....2.5 Bar / 0-25 mH ₂ O	G/A	26	0....30 Bar / 0-300 mH ₂ O	G/A
	14	0....3 Bar / 0-30 mH ₂ O	G/A	X	Customized	
		Code	Pressure type			
		A	Absolute pressure (standard type)			
			Code	Power Supply		
			S24	3.6Vdc Internal battery		
			S25	5-30Vdc (typical 24V) external voltage		
			X	Other customized		
				Code	Signal Output	
				E11	RS485/MODBUS-RTU	
				X	By Customized	
					Code	Accuracy
					6	±0.05%F.S
					3	±0.1%F.S
					X	By Customized
675S	25	A	S25	E11	3	Others remarks