

## HR8006 General Digital Water Level Transmitter

### Overview

The HR8006 universal digital water level gauge is an input type water level measuring instrument with a stainless steel full-sealed structure, which greatly improves the reliability of the whole machine and can be put into the water for a long time. Since the circuit uses low-power devices, the overall power consumption is very low, about 4mA at full speed. This feature is very useful in situations where battery power is required.

Widely used in freshwater drinking water treatment, waste water and sewage treatment, seawater measurement, surface water or groundwater monitoring in the hydrology and water industry.

### Features

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- High stability liquid level measuring sensor element, good long-term stability

- RS485 standard MODBUS-RTU protocol, can be used in DCS or PLC system
- Low power consumption, when operating at full speed, the power consumption is about 4mA, which is outstanding when it is powered by an external battery.
- The product also has reverse power protection and surge protection
- Optional unique air filter to prevent condensation and blockage in the atmosphere compensation capillary

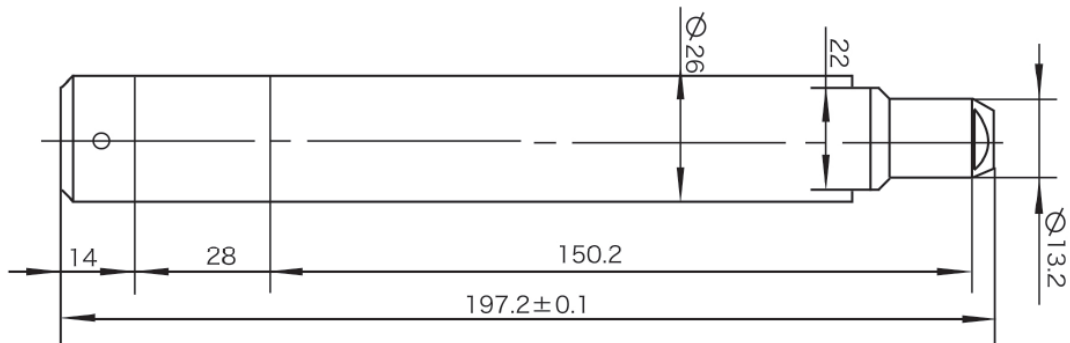
## Specification

Main performance indicators	
Range	0~10、20、50、100mH <sub>2</sub> O
	User specified range, factory calibration
Measurement Accuracy	0.05 % F.S ( Optional ) , 0.1 % F.S ( typical )
Resolution	0.005%F.S
Long-term stability	0.1%F.S/year
Overload capability	5X F.S
Temperature characteristics	
Zero temperature coefficient	0.005% F·S/°C
F.S temperature coefficient	0.005% F·S/°C

Compensation temp.	0~50°C
Operating temp.	-20~85°C
Storage temp.	-40~125°C
<b>Electrical characteristics</b>	
Supply voltage	24VDC (9~30V)
Communication interface protection	(2KV) surge voltage
Load capacity	128 transmitter node
Output method	RS485 interface, MODBUS-RTU protocol
Insulation	100MΩ @50V
<b>Mechanical properties</b>	
Sensor life	10 <sup>7</sup> times full scale pressure cycles
Material in contact with liquid	Alumina ceramic gold plating
Seal material	fluororubber
Housing material	316L stainless steel (optional titanium alloy)
Cable material	Polyammon
Weight	About 300 grams
<b>Environmental characteristics</b>	
Vibration	20g 20 ~ 5000Hz
Shock	20g 11ms
Protection level	IP68
Explosion-proof	Exia IIC T6

grade	
Air filter protection rating	IP67

**Outline Construction:** (Unit:mm)



## Electrical connections

No.	Wire colour	Definition
1	Red	24V+
2	Blue	RS485+
3	Green	RS485-
4	Yellow	GND