

HR8005 Submersible High-temperature Level Transmitter

Overview

HR8005 Submersible High-temperature Level Transmitter is used to measure high temperature well level and temperature. With the features of full temperature digital temperature compensation, compensation data stored in nonvolatile memory.

With its high reliability in performance, it is mainly used for measuring and controlling high temperature conditions, such as in hot spring and under-ground hot water.

Features

- Full welded stainless steel construction, protection IP68.
- Titanium alloy sapphire sensor, dry measuring.
- Digital temperature compensation and non-linearity correction techniques;
- Water-proof connection box is suggested for electric connection,
- Anti-surge, electromagnetic interference
- Cap on the transmitter probe is removable; prevent diaphragm from damaging, easy for regular cleaning.



Specification

Main performance specification							
Accuracy	< ±0.25% F⋅S						
Range	0~10 mH ₂ O···100 mH ₂ O						
Long-term stability	0.2%F·S/year (>20m)						
	0.1%F·S/year (≤20m)						
Overload capability	2X F·S						
Load	(U-12)/0.02 (Ω)						
Temperature characteristics							
Compensation temp.	0~70℃						
Operating temp.	-20∼85°C						
Drift of temp.	Zero: 0.05%F.S/°C						
	F.S: 0.05%F.S/°C						
Storage temp.	-40∼125℃						
Electrical characteristi	cs						
Power Supply	DC12~24V (typ.24V)						
Power Protection	Anti-reverse connection, over voltage protection						
Output method	Two-wire 4 ~ 20mA						
Structural characteristics							
Measuring medium	Compatible with stainless steel, teflon and fluoro rubber						
Pressure interface	stainless steel cap or G1/2, M20*1.5 male						



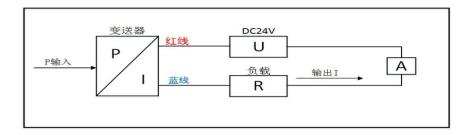
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Housing material	SS 1Cr18Ni9Ti and 316L optional					
Cable material	Teflon, double wire or gas shield four - core cable					
Environmental characteristics						
Protection level	IP68					
Explosive-proof grade	Exia II C T6					
Insulation	100MΩ@50V					
Vibration	20g, 20 ~ 5000Hz					
Shock	20g, 11ms					

Electrical connections

NO.	Color	Definition
1	Red	DC24V+
2	Blue	4~20mAoutput (GND)

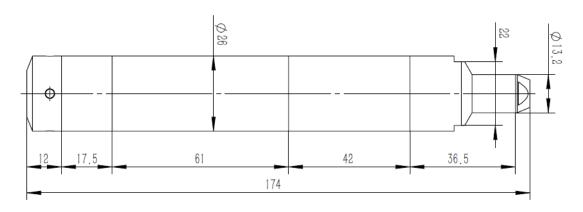
Typical application



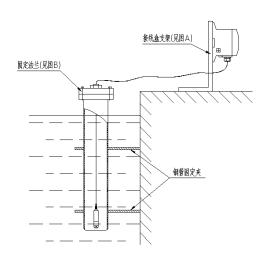
4-20mA application

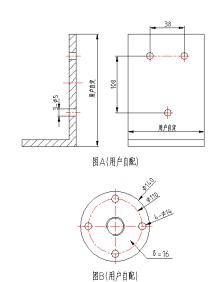


(尺寸单位:mm) Construction outline (Unit:mm)



Installation







Order guide

HR8005	Submersible High-temperature Level Transmitter									
	Range	0 ~ 100 mH ₂ O								
	[0~X] mH₂O L	x-water level range, ∟-cable length					x-water level range, ∟-cable length			
		Code	de Output signal							
		E	4~20mA							
			Code	Construction Material						
				Housing	Diaphragm	Process Connection				
			S1	SS	316L	SS				
			S2	316L	316L	316L				
			S3	316L	Та	316L				
				Code	Others					
				C1	M20*1.5 male, face type seal					
				C2	M20×1.5 maseal	//20×1.5 male, waterline eal				
				C3	G1/2 male					
				FL	Fixed flange					
				LM	Limit current protection					
HR8005	[0~10] mH ₂ O 6	E	S2	FL	Full model example					

Order Note

- 1. Please be sure the measured media shall be compatible with contacting material; please pay attention to media density in the measurement;
- 2. Polyurethane cable is recommended for its softness and good wear-resisting.
- 3. If the user has special requirement, please feel free to contact our company.