











Datasheet Digital conductivity sensor SUP-TDS8002



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Datasheet

Digital conductivity sensor SUP-TDS8002

TDS8002 conductivity and salinity digital sensor is designed for aquaculture, river sewage, seawater salinity, environmental protection engineering and other industries. It is equipped with a special quadrupole alloy sensor for breeding, which can be used to measure the changes of conductivity and salinity in the aqueous system within the range of (0~500) mS/cm. It has a standard RS485 Modbus RTU protocol interface function, which can communicate with the host computer remotely.

Applications

- Aquaculture
- River sewage
- Seawater salinity
- Environmental protection engineering



Features

- Isolated power supply design, data stability, strong anti-interference ability
- 4-pole stainless steel, corrosion-resistant alloy conductivity/salinity sensor
- Shell material: POM (wet part)
- Corrosion resistance high stability, Suitable for continuous detection of fresh water and sea water
- Built-in temperature sensor

SUP-TDS8002

Parameters	
Measure	Salinity /Conductivity/TDS
Measurement range	Conductivity:(100~60000) µ S/cm; (0.1~500.00) mS/cm; TDS: (0~9999) ppm; salinity: (0~100.00) ppt
Display resolution	1uS/cm; 0.01mS/cm; 1ppm; 0.01ppt



Accuracy	1.5%FS			
Calibration period	>3 months			
Body material	POM (wet part)			
Cable length	5m as standard, other lengths are optional			
Display resolution	1 μ S/cm; 0.01mS/cm; 1ppm;0.01ppt			
Temperature	0~60℃			
Accuracy	0.1℃			
Sensor type	Quadrupole conductivity sensor			
Measurement accuracy	<1.5%F.S, 2%reading, take the smaller of both			
Accuracy	±0.5℃			
Temperature compensation	Automatic compensation coefficient: 2%/°C, coefficient adjustable (default compensating temperature is 25.0°C)			
Communication	RS485			
Communication protocol	MODBUS-RTU			
Communication method	Baud rate 9600,8,1, N			
Communication method	ID:1-255 default ID:1 (0×01)			
Calibration and parameter setting mode	RS485 remote setting			
Power supply	12 VDC			
Power consumption	30mA @12 VDC			

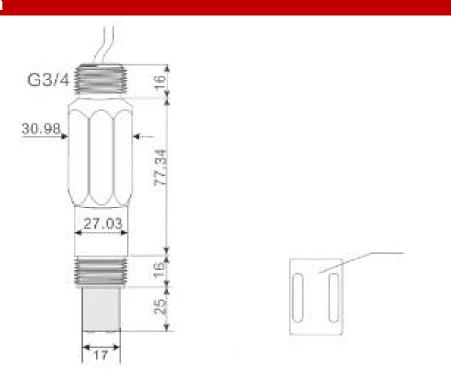


Wiring

Color	Description
Red	V+
Black	GND
Green	485A
White	485B

Note: Please check the color and wiring definition carefully, if the wiring is wrong, the sensor may be damaged.

Dimension





Ordering code

SUP-TDS-8002-HM1E1D	1CS5					Description	
SUP-TDS8002 -	-	-	-	-	-		
Serial number TDS-8002						Conductivity:(100`60000) µS/cm	
						(0.1`500.00) mS/cm	١;
						TDS: (0`9999) ppm	
						Salinity: (0`100.00) ppt	
						Temperature range:(0~60)℃,	
						Accuracy±0.5℃(±0.2℃optiona	l)
Material	HM1					POM(wet part)	
Electrode material		E1				HC	
Communication me	ethod		D1			RS485, MODBUS-RTU	
Cable length			C55		5m(standard)		
Cable length				CSxx		Customized	