



Recorder



Flow



Pressure



Temp



Analyzer



Level

Datasheet

Conductivity sensor

SUP-TDS8001

Supmea[®]

Committed to process automation solutions

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Datasheet**Conductivity sensor
SUP-TDS8001**

The Cond salinity/conductivity sensor designed by our company for aquaculture, environmental protection water treatment, industrial processes and other industries, equipped with a two-pole graphite sensor, can be used to measure the conductivity and salinity value changes in the aqueous system within the range. It has a standard RS485 Modbus RTU protocol interface function and can communicate with the host computer remotely.

Applications

- Aquaculture
- Data collection
- Industrial processes
- Wastewater Treatment Plant
- Environmental protection water monitoring

Features

- Isolated power supply design, data stability, strong anti-interference ability
- Two-pole graphite conductivity/salinity sensor
- Shell material: PPS
- Corrosion resistance, high stability, suitable for continuous monitoring of fresh water and sea water
- Built-in temperature sensor

**Conductivity sensor**

Sensor parameters

Principle	Two-pole graphite sensor
Measuring range	Conductivity: 0-9999uS/cm
	10.00- 100.00mS/cm
	TDS: 0-9999ppm
	Salinity: 0-40.00ppt
Resolution	1uS/cm; 0.01mS/cm; 1ppm; 0.01ppt
Accuracy	±2.5%
Sensor life	2–3years
Calibration period	>3 months
Shell material	PPS
Cable length	5 meter (standard), other lengths are optional

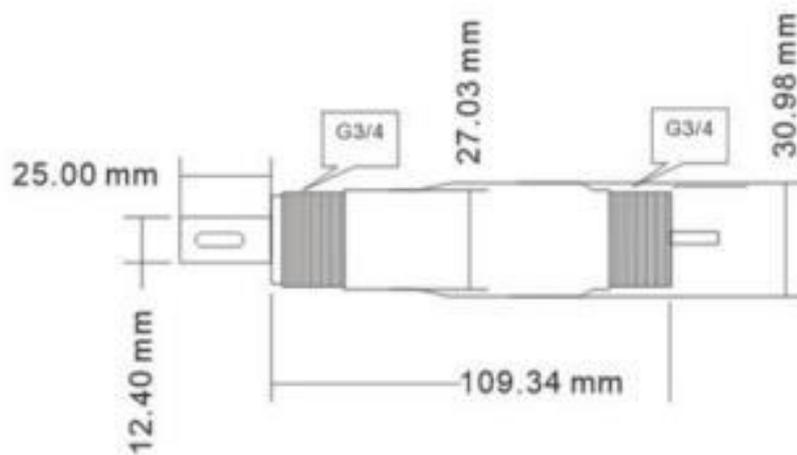
Smart module parameters

Measure	Salinity/conductivity/TDS in water
Measuring range	Conductivity: 0-9999uS/cm;
	10.00- 70.00mS/cm;
	TDS: 0-9999ppm
	Salinity: 0-40.00ppt
Resolution	1uS/cm; 0.01mS/cm; 1ppm; 0.01ppt
Accuracy	±2.5%
Sensor life	2–3years
Calibration period	>3 months
Shell material	PPS
Cable length	5 meter (standard), other lengths are optional
Resolution	1uS/cm; 0.01mS/cm; 1ppm; 0.01ppt
Temp rage	0-60.0°C
Temp resolution	0.1°C
Sensor type	Two-pole graphite sensor
Accuracy	±2.5% ; ±0.5°C
Data compensation	Default 25.0°C compensation temperature, 2%/°C
Communication method	RS485 interface*1
Communication protocol	Standard MODBUS-RTU protocol
Communication method	Baud rate 9600, 8, 1, N
	ID: 1-255 Default ID: 1 (0x01)
Calibration and parameter setting	RS485 remote setting
Power supply	7 - 30VDC
Power consumption	30mA @12 VDC

Wiring

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

Note: Please carefully check the color and wiring definition before wiring, if the wrong wiring may cause damage to the sensor.

Dimension

Applications



Ordering code

SUP-TDS8001-CS5											Description	
SUP-TDS8001	-	-	-	-	-	-	-	-	-	-	-	Measuring range: Conductivity: (0-9999) uS/cm; (10- 100) mS/cm TDS: (0-9999) ppm Salinity: (0-40) ppt Temperature range: (0-60) °C
Serial Number	TDS8001											
Cable length	CS5										5m cable	
	CS10										10m cable	
	CS15										15m cable	
	CSXX										XXm cable	