



Recorder



Flow



Pressure



Temp



Analyzer



Level

Datasheet

Conductivity sensor

SUP-TDS8001

Supmea[®]

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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

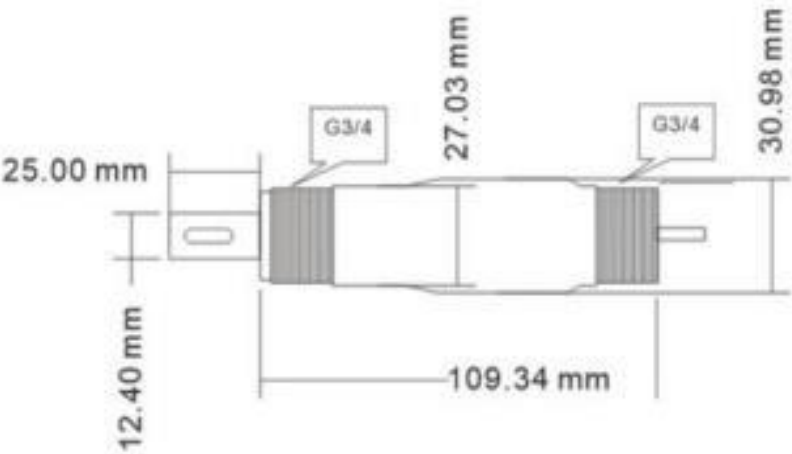
Measure	Salinity/conductivity/TDS in water
Measuring range	Conductivity: 0-9999uS/cm; 10.00- 70.00mS/cm; TDS: 0-9999ppm Salinity: 0-40.00ppt
Resolution	1uS/cm; 0.01mS/cm; 1ppm; 0.01ppt
Accuracy	±2.5%
Sensor life	2–3years
Calibration period	>3 months
Shell material	PPS
Cable length	5 meter (standard), other lengths are optional
Resolution	1uS/cm; 0.01mS/cm; 1ppm; 0.01ppt
Temp rage	0-60.0℃
Temp resolution	0.1℃
Sensor type	Two-pole graphite sensor
Accuracy	±2.5% ; ±0.5℃
Data compensation	Default 25.0℃ compensation temperature, 2%/℃
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	-	-	-	-	-	-	-	-	-	-	
Serial Number		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
Cable length		CS5									5m cable
		CS10									10m cable
		CS15									15m cable
		CSXX									XXm cable