

# Arduino Water TDS Sensor

## Description

### Product introduction:

This is an compatible TDS sensor, used to measure the TDS value of water. The TDS value can reflect the cleanliness of the water and can be used in water quality detection in the fields of domestic water and hydroponics.

TDS (Total Dissolved Solids), Chinese name: Total Dissolved Solids, also known as Total Dissolved Solids, indicating how many milligrams of dissolved solids are dissolved in 1 liter of water. Generally speaking, the higher the TDS value, the more dissolved substances contained in the water and the less clean the water. Therefore, the value of TDS can be used as one of the basis for reflecting the cleanliness of water.

This product is specially designed for arduino, plug and play, easy to use. Wide voltage power supply of 3.3~5.5V and analog signal output of 0~2.3V make this product compatible with 5V and 3.3V control systems and can be easily connected to existing control systems. The excitation source for measurement uses AC signals, which can effectively prevent probe polarization, extend the life of the probe, and increase the stability of the output signal. The TDS probe is a waterproof probe that can be immersed in water for long-term measurement. The product can be applied to water quality testing in domestic water, hydroponics and other fields. With this sensor, you can easily DIY a TDS detector, easily detect the cleanliness of the water, and check your water quality. To

### Product Features:

1. Wide voltage operation: 3.3~5.5V
2. 0~2.3V analog signal output, compatible with 5V and 3.3V control systems
3. The excitation source is an AC signal, effectively preventing probe polarization
4. Waterproof probe, can be immersed in water for long-term measurement
5. Arduino compatible, simple connection, plug and play, no soldering required

### Technical specifications:

Signal transfer board:

Input voltage: 3.3~5.5V

Output signal: 0~2.3V

Working current: 3~6mA

TDS measurement range: 0~1000ppm

TDS measurement accuracy:  $\pm 10\%$  F.S. (25°C)

Size: 42\*32mm

Module interface: XH2.54-3P

Electrode interface: XH2.54-2P

### TDS probe:

Number of probes: 2

Overall length: 83cm

Connection interface: XH2.54-2P

Colour: Black

Other: Waterproof probe

### Package Included:

1xTDS signal adapter board

1xWaterproof TDS probe

1xAnalog sensor line

