

Analog TDS Sensor Module v1.0

The Analog TDS Sensor Module v1.0 is designed to measure Total Dissolved Solids (TDS) in water.

It provides an analog signal output that can be read by microcontrollers like Arduino, Raspberry Pi, or other compatible devices for water quality monitoring applications.

Technical Specifications

- Operating Voltage: 3.3-5V DC
- Analog output: 0-2.3V
- Compatible with 5V and 3.3V control systems
- TDS Range: 0 - 1000 mg/L
- Accuracy: $\pm 5\%$
- Sensor Type: Conductivity-based measurement
- Compatible Microcontrollers: Arduino, Raspberry Pi, etc.
- The excitation source is an AC signal, effectively preventing probe polarization
- Waterproof probe for long-term immersion in water

Applications

- Water Quality Monitoring
- Aquatic Life & Fish Tank Maintenance
- Hydroponics & Aquaponics
- Environmental Testing

How to Use

1. Connect the sensor module to your microcontroller using the analog output pin.
2. Use an appropriate ADC (Analog-to-Digital Converter) for signal processing.
3. Adjust the code in your microcontroller to account for temperature variation in the TDS readings.

Note: The Analog TDS Sensor Module does not include a built-in temperature sensor. For temperature-compensated readings, you will need to connect an **external temperature sensor**, such as the **DS18B20**, to your system.

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