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INTRODUCTION

The Low-Cost water Sensor unit records several water quality measures and saves the time stamped data for future analysis.

Key Features:

- Arduino Uno controls elements
- RTC for timestamping
- Lithium Battery and solar cell
- 3D printed casing

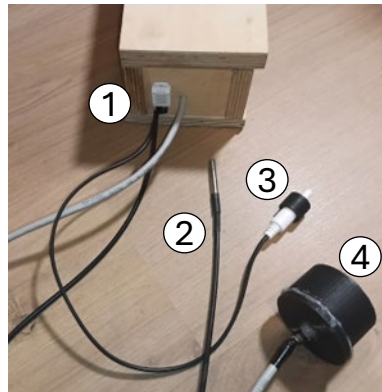
Sensor Unit Elements:

- DHT22 (Air Humidity & Temperature)
- DS18B20 (Water Temperature)
- TDS sensor
- Capacitive Soil Moisture Sensor
- DS3231 Real-time Clock Module
- SD Card Breakout Module
- ADS1115 ADC

NEXT STEPS

Elements to be added:

- ORP Sensor
- Turbidity Sensor
- Ammonium or nitrate Sensor
- Flow Sensor
- LoRa Communication
- Timer breakout Module (TPL5110)



1. DHT22
2. Water Temperature Sensor
3. TDS Sensor
4. Turbidity Sensor

