

Water clarity sensor parts list and purchase links

Electronics

- [Adafruit ESP32-s2 feather BME](#)
- [AIthinker ESP32-cam](#)
- [MS5803BA_05 pressure sensor](#) on 4-pin (+3V, -3V, SDA, SCL) breakout board
- [DS3231 real time clock \(RTC\)](#)
- [DF robot SD card module](#)
- [6-pin switch](#)
- [9V battery \(x2\)](#)
- [9V battery lead wires \(x2\)](#)
- [Female header mounts](#)
- [Double-sided perf board](#)
- [Multi-colored breadboard wires](#)

Hardware

- [Waterproof housing](#)
- [M3 bolts \(x2\)](#)
- [M3 lock nuts \(x2\)](#)
- [Bricks \(~5 pounds\) \(x6\)](#)
- [12" zip ties \(x24\)](#)
- [6" zip ties](#)
- [1/2" plywood \(~2 sq. ft\)](#)
- [0.84" OD PVC pipe \(1/2" ID\) \(~5m\)](#)
- 60° elbow connectors (x6, see project [GitHub](#))
- 90° elbow connectors (x8, see project [GitHub](#))
- Ball distance markers (x14, see project [GitHub](#))
- [1mm wire \(~1m\)](#)

Filament

- [ABS filament \(any color, ~1/4 spool\)](#)

Sealants

- [Marine sealant 5200](#)
- Hot glue