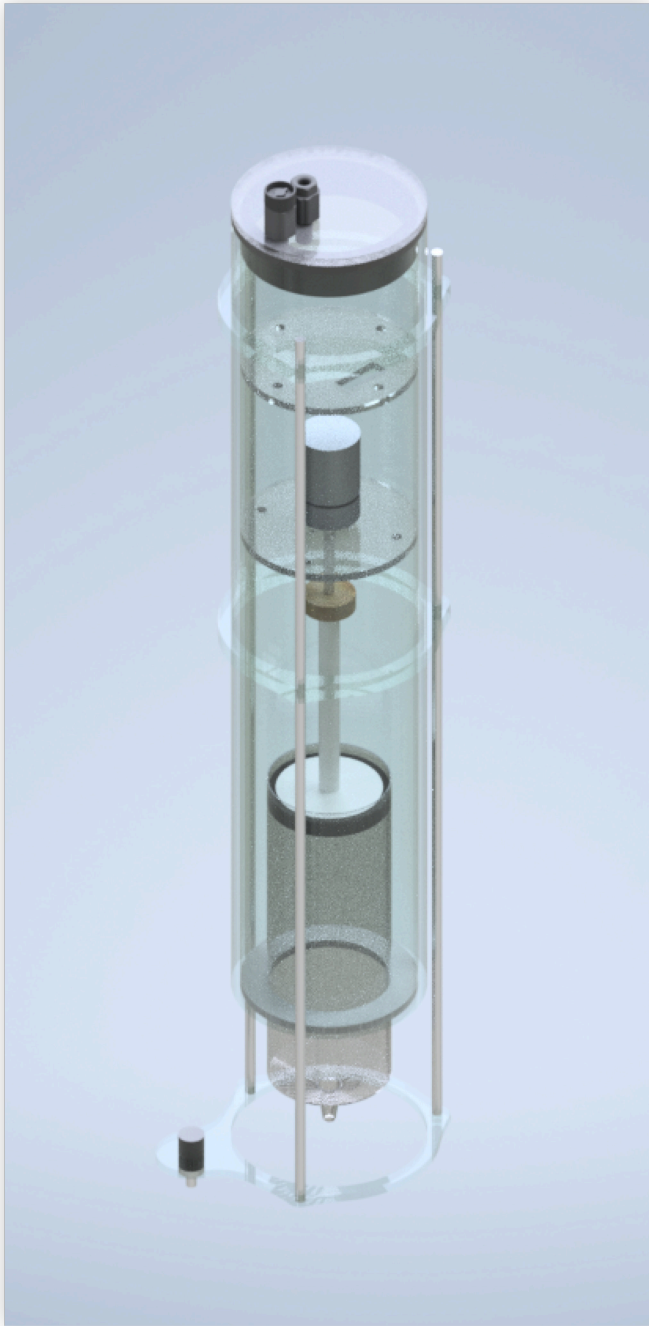


# Vertical Profiling Float

## 2025 Float Documentation



- The Profiling float is powered by a buoyancy engine where a syringe takes in and ejects water to adjust ballast
- Controlled and operated by a ESP-32 micro controller and communicates through WIFI
- Given commands through a custom web server locally hosted
- Gathers pressure data and converts readings to depth in meters
- Graphs depth over time
- 12v alkaline battery for safety and long operations
- 3A fuse installed
- Height 700mm, 110mm diameter
- Weight 4Kg

