Water Intelli-Buoy

Team 2
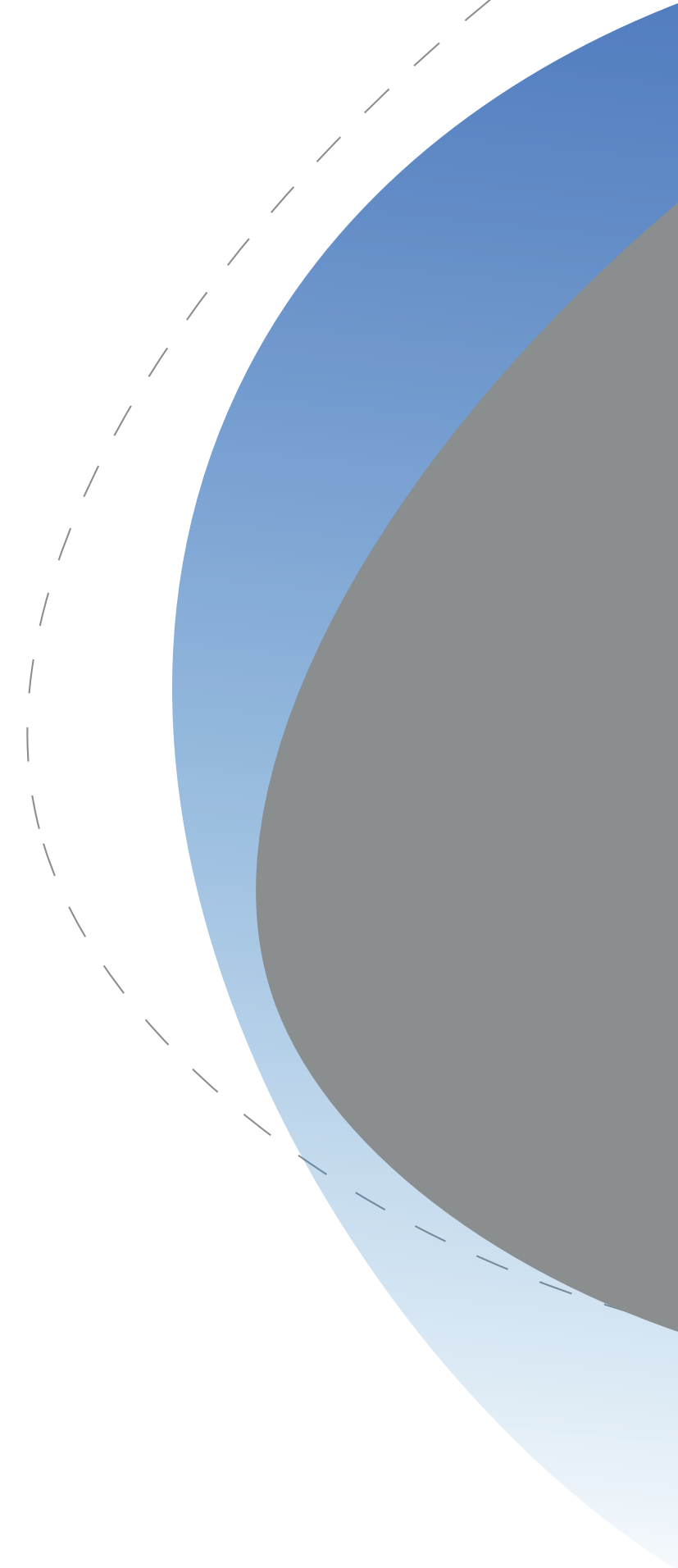
Final selection sensors

- Water temperature sensor   € 1,5*

- Turbidity sensor   € 10*

- Air temperature sensor   € 1,5*

- Conductivity sensor?   € 20*

*The prices might fluctuate depending on the chosen supplier
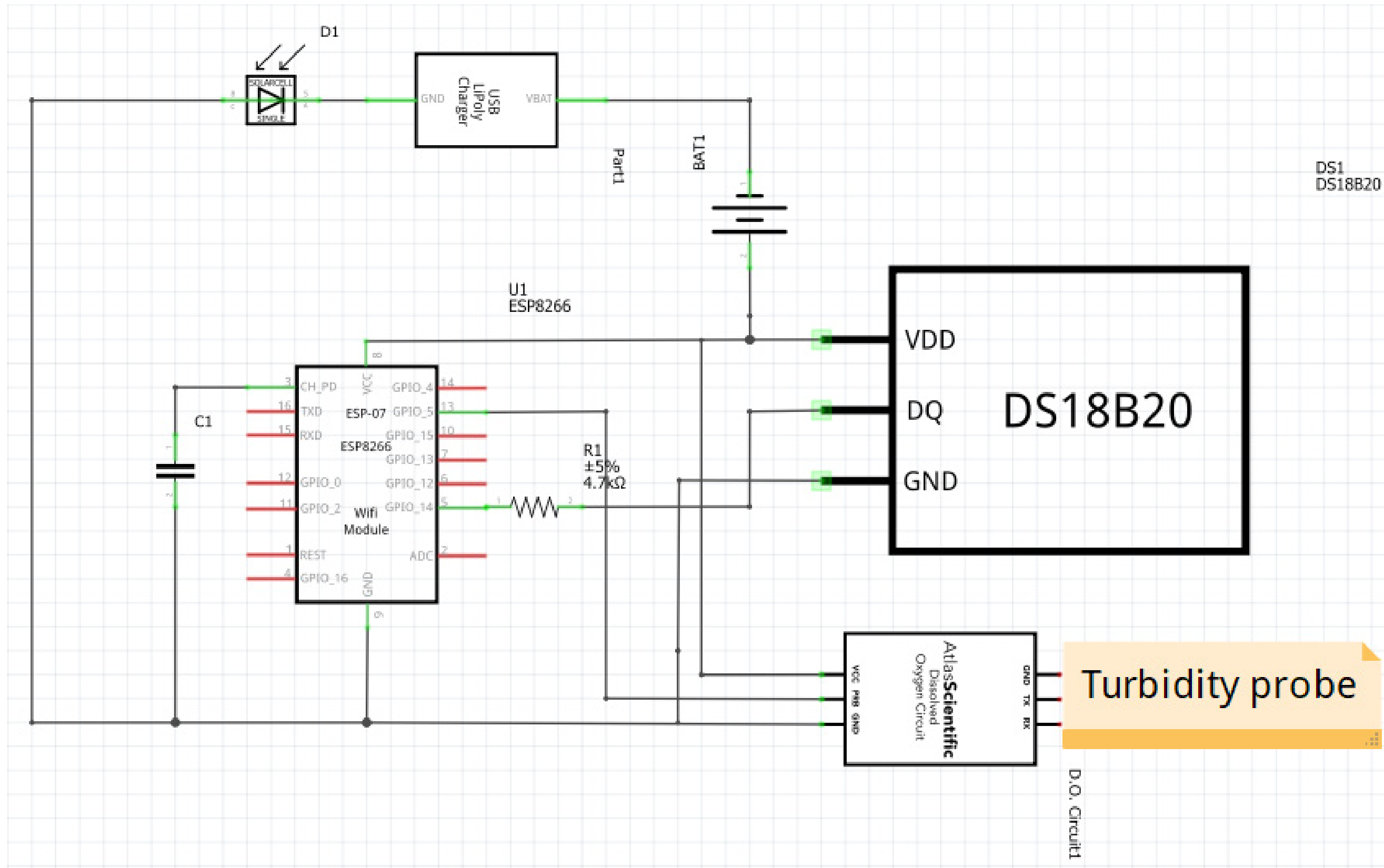
Other components

- Solar panel   € 3*

- Batteries (2-4 X AA)   € 2/pc*

- Wifi module   € 7,90*

- Battery charger   € 1,23*
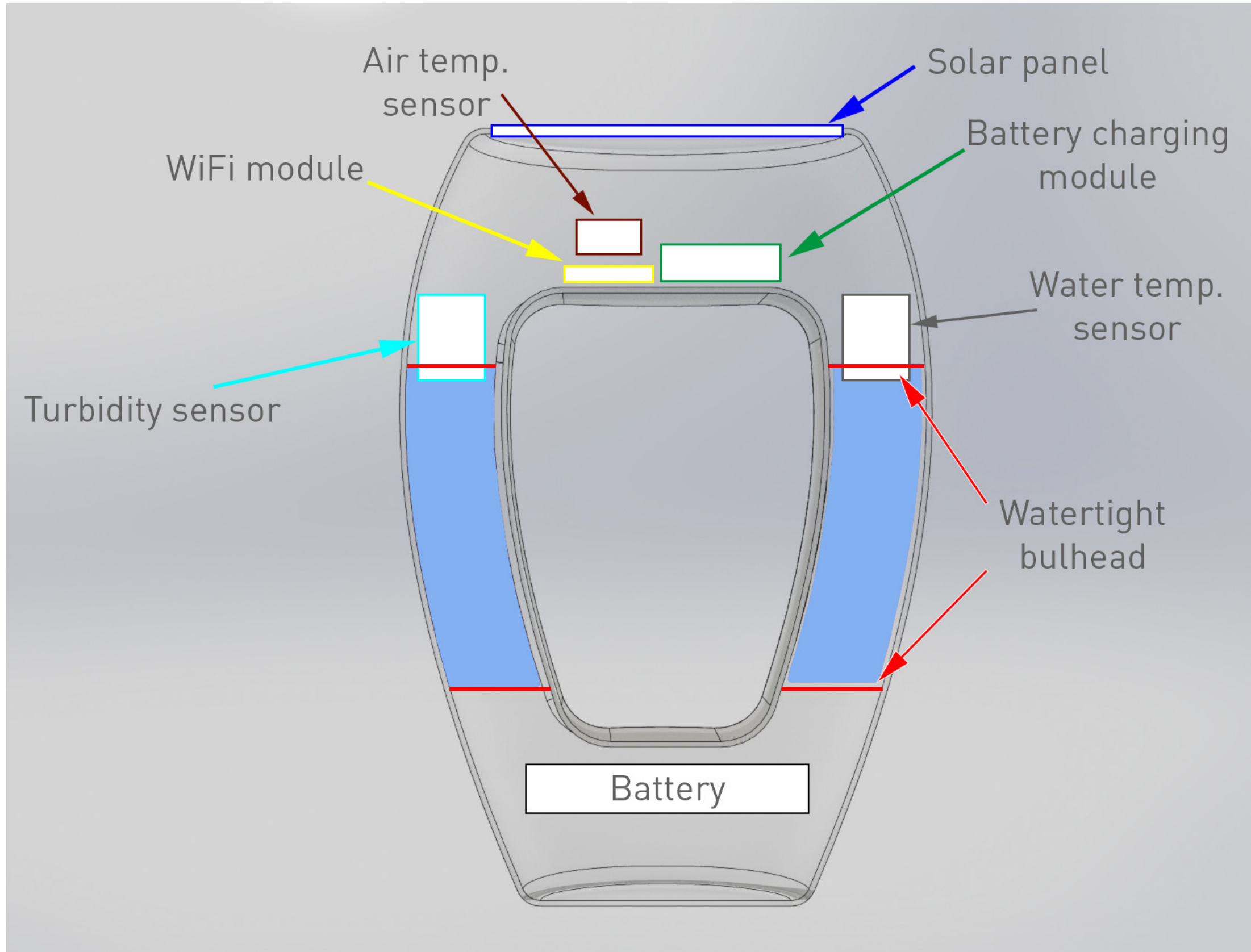
- Resistors, capacitors...   € 2 total*

*The prices might fluctuate depending on the chosen supplier
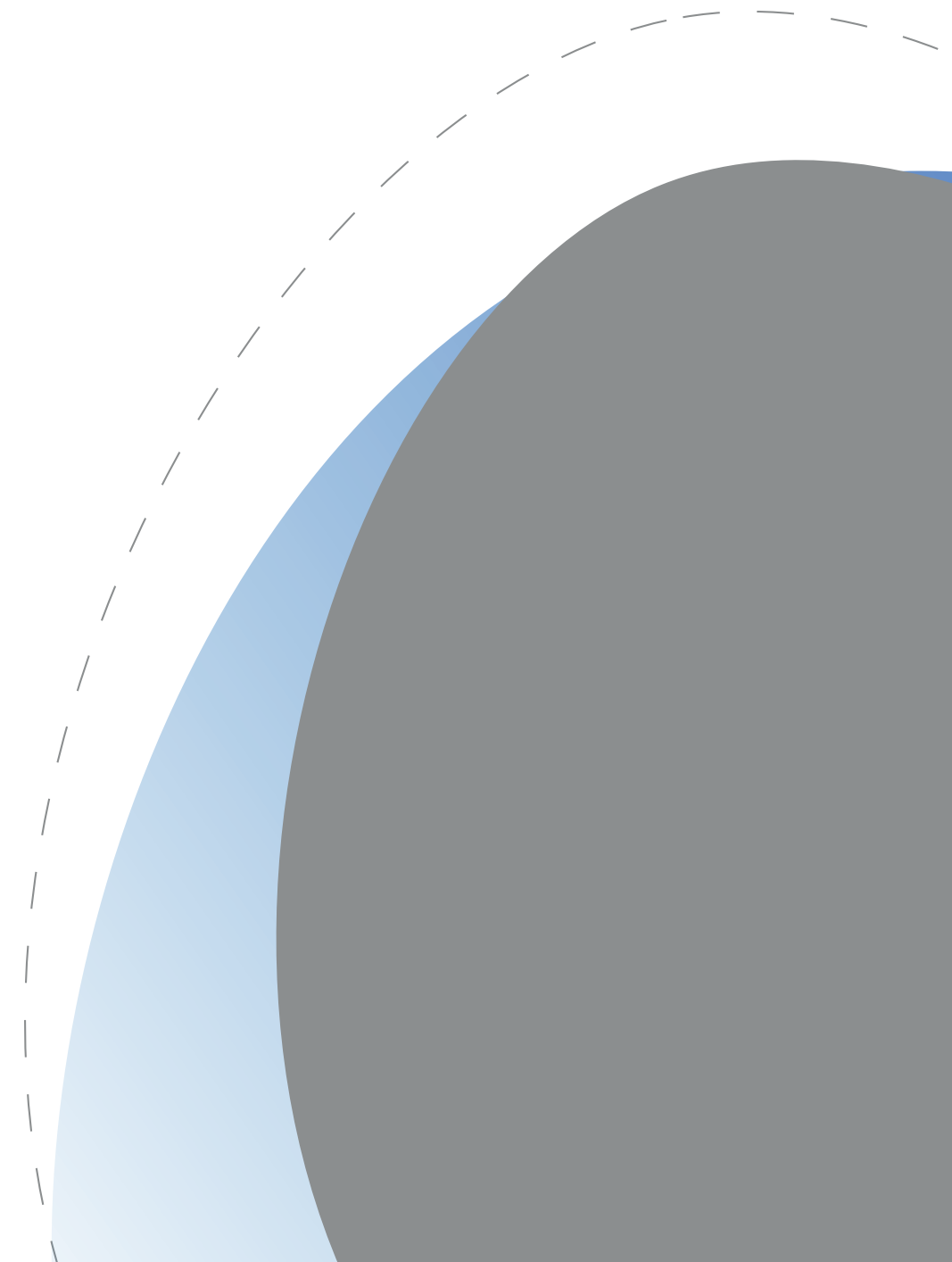
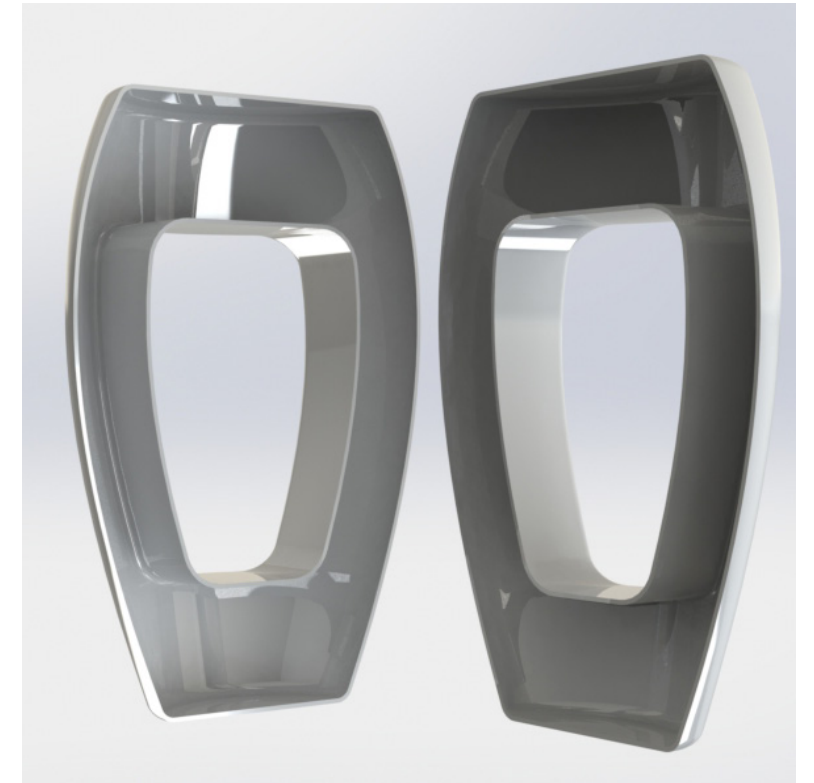# Electrical scheme

Positioning sensors & components

Air temp. sensor

Solar panel

WiFi module

Battery charging module

Water temp. sensor

Turbidity sensor

Watertight bulhead

Battery

Materials

- Selection criteria:
  - Water resistant
  - Weather resistant (UV)
  - Recyclable
  - Price

- Plastics:
  - PVC
  - ~~HDPE~~
  - ~~PET~~

- Organic material:
  - Cork

Production

- 2 shells

- Connection techniques:
  - Mechanical (screws, snaps...)
  - ~~Chemical (gluing)~~
  - ~~Thermal (welding)~~

- Must be easily serviceable (for maintenance team)

Questions

- Opinion on progress
- Watertight connection techniques for plastics