Weather Station for our Friends in Africa

Current partners: Uganda, Benin, Ghana

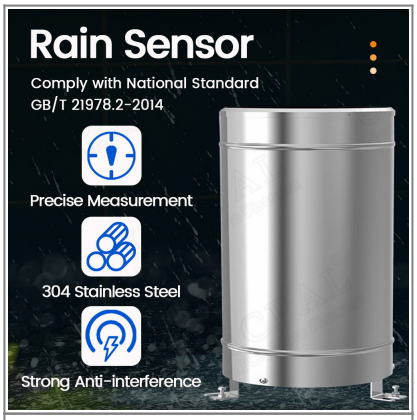
Idea

We build our own data loggers based on ESP32. Data transmission is done via Wifi, Cellular Network or LoRaWAN.

Sensors

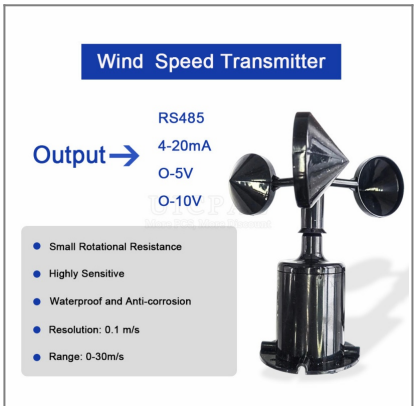
An initial set of sensors:

Tipping Bucket Rain Gauge



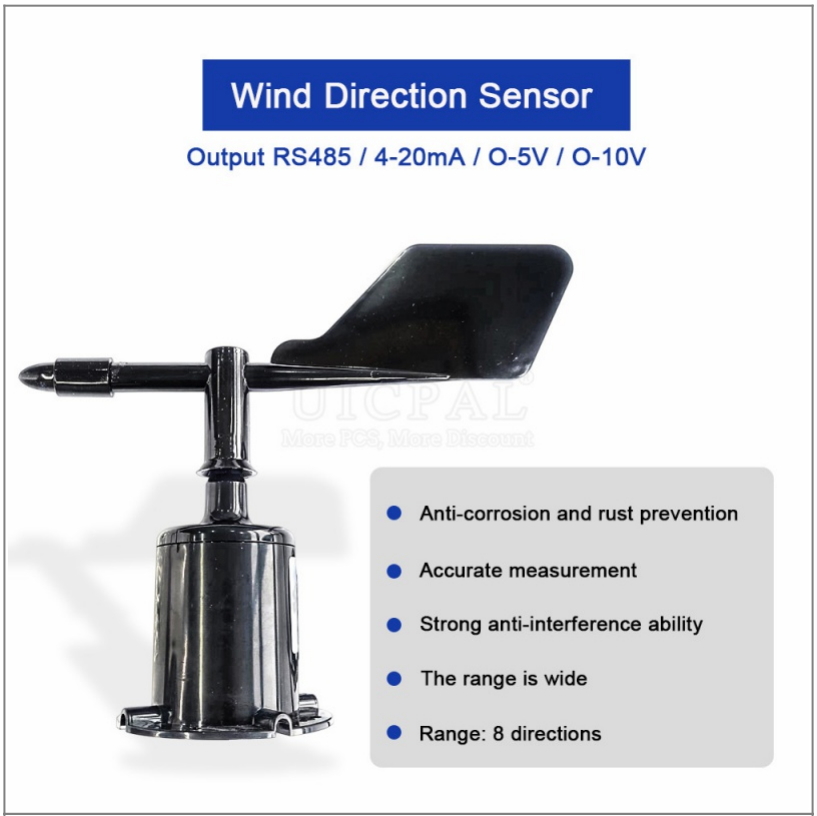
UICPAL Sensors

Wind Velocity (Anemometer)



UICPAL Sensors

Wind Direction



UICPAL Sensors

Air Temperature

- PT100 (best)
- DS18B20

Air Humidity

Air Pressure