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

Data Sheet: pr-3000-fsjt-n01.pdf

Wind Direction

Wind Direction Sensor Output RS485 / 4-20mA / O-5V / O-10V ● Anti-corrosion and rust prevention ● Accurate measurement ● Strong anti-interference ability ● The range is wide ● Range: 8 directions
[UICPAL Sensors](#)
Data Sheet: [pr-3000-fxjt-n01.pdf](#)

Air Temperature

- PT100 (best)
- DS18B20

Air Humidity

Air Pressure

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