

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

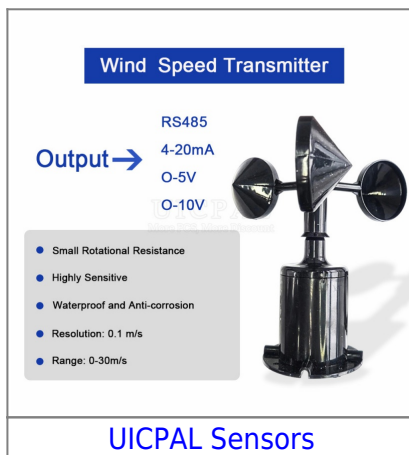


Rain Sensor
Comply with National Standard
GB/T 21978.2-2014

-  Precise Measurement
-  304 Stainless Steel
-  Strong Anti-interference

UICPAL Sensors

Wind Velocity (Anemometer)



Wind Speed Transmitter

RS485
Output → 4-20mA
0-5V
0-10V

- Small Rotational Resistance
- Highly Sensitive
- Waterproof and Anti-corrosion
- Resolution: 0.1 m/s
- Range: 0-30m/s

UICPAL Sensors

Wind Direction

Wind Direction Sensor

Output RS485 / 4-20mA / 0-5V / 0-10V



- Anti-corrosion and rust prevention
- Accurate measurement
- Strong anti-interference ability
- The range is wide
- Range: 8 directions

[UICPAL Sensors](#)

Air Temperature

- PT100 (best)
- DS18B20

Air Humidity

Air Pressure

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