

ULTRA-LOW-POWER LONG RANGE WIND SENSOR (ULP LORA)

Power:

ULP LoRa:

Battery powered (50 Hours active use)
Wireless charging Qi

Consumption:

1200 mAh battery
10 mA at 1 Hz and for a signal range of 3 km

Information Given:

-Wind Speed

Range: 0.5 - 45 m/s
(1.12 to 100 mph)

Accuracy: 0.1 m/s at 10 m/s (0.22 mph
to 22 mph)

Threshold: 0.5 m/s (1.12 mph)

-Wind direction

Range: 0- 359°
Accuracy: ±1°

Measurement:

-Sample rate 1Hz
-Output units m/s, km/h, knots, mph

Data Output:

-Bluetooth version 5.1
Range Up to 1.8 mile (3km)
-Frequency 868MHz/915MHz/
433MHz (on demand)

Resistance to interference

-Spreading factor 7
-Bandwidth 125 kHz
-Error Correction Rate 4/5
-Tx Power 22dBm



Sensors

Ultrasonic Transducers (4x)

Dimensions

Diameter: 70 mm (2.76 in.)
Height: 95 mm (3.74 in.)
Weight: 213 grams (7.51 oz.)

Environmental:

IP code IPX8 Protection Grade
Temperature Range -15/60° C if no frost

Firmware

Upgradable via Bluetooth

Easy Mount

3xM4 lateral female thread
3xM4 base female thread
Tripod mount UNC1/4"-2

Compatible devices

Smartphones & Tablets

LoRa Receiver

-N° Channels 3
-Power Lithium polymer battery
(50 hours active use)
USB-C
-Consumption 600mAh battery.
Consumption of 10mA
-Bluetooth 5.1 Version
-Dimensions Diameter: 65 mm (2.56 in.)
Height: 25 mm (0.98 in.)