

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

The Ultrasonic Portable Ultra Low Power LoRa is a portable, battery-powered wind meter designed for use in demanding outdoor conditions. It uses four ultrasonic transducers to measure wind speed and direction with high accuracy and responsiveness. The device is compatible with Applied Ballistics software, making it suitable for precision shooting and meteorological uses.

<b>Power:</b>	Battery powered (4 days of active use) Wireless charging QI
<b>Consumption:</b>	1200mAh battery 10 mA at 1 Hz and for a signal range of 3 km
<b>Information Given:</b>	
- Wind Speed:	Range: 0.5 - 45 m/s or 0.5 - 25 m/s (1.12 to 100 mph or 1.12 to 56 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°
<b>Measurement:</b>	
- Sample rate:	1 Hz
- Output units:	m/s, km/h, knots, mph
<b>Data Output:</b>	
-Bluetooth	Version Range 5.1 Up to 1 Mile
-Frequency	868MHz/915MHz/ 433MHz (on demand)
<b>Resistance to Interference:</b>	
Spreading Factor -	7
Bandwidth -Error	125 kHz
Correction Rate -Tx	4/5
Power	22 dBm



<b>Sensors:</b>	Ultrasonic Transducers (4x)
<b>Dimensions:</b>	Diameter: 70 mm (2.76 in.) Height: 95 mm (3.74 in.) Weight: 213 grams (7.51 oz.)
<b>Environmental:</b>	
IP Code	IPX8 Protection Grade
Temperature Range	-15/60° C if no frost
<b>Firmware</b>	Upgradable via Bluetooth
<b>Easy Mount</b>	3xM4 lateral female tripod thread - UNC1/4"-20 3xM4 inferior female tripod thread - UNC1/4"-20 Tripod Mount - female thread
<b>Compatible Devices:</b>	
Smartphones & Tablets	Gateway (LoRa receiver & BLE transmitter)
	
<b>LoRa Receiver:</b>	
-N° Channels	3
-Battery	600mAh battery. Consumption of 10mA (at least 50 operating hours) Can be powered with a 5V USB-C.
-Bluetooth	5.1 Version