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## ULTRA-LOW-POWER ULTRASONIC WIRED MINI WIND SENSOR

The ULP Wired Mini Wind Sensor is a lightweight and compact solution for precise wind measurement in space-constrained installations. Its ultra-low power consumption and small footprint make it ideal for portable systems, UAVs, and remote weather stations. Despite its size, it delivers professional-grade accuracy and fast response. Built with IPX8 protection, it performs reliably in outdoor environments. Easy to integrate via UART and firmware-upgradable for long-term flexibility. Perfect for mobile meteorology, smart agriculture, and environmental sensing.



**Power:** 3..3 - 5 VDC

### Information Given:

#### - Wind Speed

Range: 0.5 - 45 m/s or 0.5 - 25 m/s (1.12 to 56 mph or 1.12 to 100 mph)

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

Threshold: 1 m/s (2.24 mph)

#### - Wind Direction:

Range: 0- 359°

Accuracy: ±1° RMS at 10 m/s (22.37 mph)

### Measurement:

#### - Power Consumption

(UART) 0.15 mA at 38,400 bauds, 1 Hz (5V)

**Baudrate:** 1,200 to 115,200 (8n1) bauds

**Output rate:** 0.1 to 20 Hz

**Output units:** m/s, Knots, or Km/h

**Sensor:** Ultrasonic Transducers (4x)

**Dimensions:** Diameter: 43 mm (1.69 in.)  
Height: 47 mm (1.85 in.)  
Weight: 78 grams (2.75 oz.)

### Environmental:

#### - IP Protection

IPX8

#### - Temperature Range

-15/55° C (5/131° F)

### Firmware Upgradable

### Data Output:

-UART - Autotransit  
- POLL Telegram



## ULP WIRED MINI

### SPECS SHEET

   English version 1.0  
01.03.2023

**Unite Trades & Technologies**  
FF-229, Tower-A Ansal Palam  
Corporate Plaza C2 Block Palam Vihar  
Phone: +91-124-4130689  
website: www.utnt.in, Email: utnt@utnt.in