

ULTRA-LOW-POWER ULTRASONIC WIND SENSOR (ULP STD)

The ULP STD Ultrasonic Wind Sensor is a compact, low-power solution for accurate wind speed and direction measurement. Built for efficiency, it offers flexible data output formats including RS485, NMEA 2000, and analog (4-20mA). Its rugged IPX8-rated design ensures durability in outdoor and marine environments. With minimal power consumption, it's perfect for remote or solar-powered installations.

Power: 3.3 - 18 VDC

Information Given:

- Wind Speed

Range: 0.5 - 45 m/s or 0 - 25 m/s (1.12 to 100 mph or 0 to 56 mph)

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

Threshold: 0.5 m/s (1.12 mph)

- Wind Direction:

Range: 0- 359°

Accuracy: $\pm 1^\circ$ RMS at 10 m/s (22.37 mph)

Measurement:

- Power Consumption

(UART) 0.15 mA at 38,400 bauds, 1Hz (5V)
(RS485) 0.25 mA at 38400 bauds, 1Hz (5V)

Baudrate 2,400 to 115,200 (8n1) bauds

Output rate: 0.1 to 20 Hz (configurable)

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



Easy Mount

- 3xM4 lateral female tripod thread - UNC1/4"-20
- 3xM4 inferior female tripod thread - UNC1/4"-20

Sensor:

Ultrasonic Transducers (4x)

Dimensions:

Diameter: 70 mm (2.76 in.)

Height: 65 mm (2.55 in.)

Weight: 210grams (7.4 oz.)

Environmental:

- IP Protection IPX8

- Temperature Range -15/60° C (5/140° F)

Firmware upgradable: Configurable via cable.

If you require a cable length longer than 20 meters (MODBUS), we can provide support. Please contact our technical support team for assistance.

Data Output:

SKU

- | | | |
|------------------|-----------------|-----------------|
| - RS485 / MODBUS | -Stream | -25m/s: CMI1014 |
| | or Poll | -45m/s: CMI1017 |
| - UART / 12C | -Stream | CMI1018 |
| | or Poll | |
| - 4-20mA | -Analog | CMI1034 |
| - NMEA 2000 | -Stream or Poll | |



ULP STD

SPECS SHEET



English version 1.0
25.05.2023