



CMI1014 **CALYPSO**
ULTRASONIC Wired Standard
wind instrument



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1. Product overview

Congratulations, you are the owner of a brand new ULTRASONIC Wind Instrument.

A wired pocket-sized ultrasonic anemometer, easy to install and simple to use.

2. Package content

The package contains the following:

- Ultrasonic Wired Standard Instrument.
- Serial number reference in the back of the packaging.
- Quality control referece in the same place as the previous one.
(both shown in the bottom image).
- 2 meters or 20 meters of cable*
- *Please, check options availables at our website.



3. Technical specifications

Ultrasonic Wired Standard model incorporates the following technical specifications:

3.1. Dimensions · Diameter: 70 mm
· Height: 57 mm



3.2. Weight · 135 grams

Either, dimensions and weight, make the Ultrasonic Wired Standard a compact and easy to use product.

3.3. Sensors · Ultrasonic transducers (4x)
· Sample rate: 10 Hz

Ultrasonic transducers (4x)
Ultrasonic Wired Standard has been designed to avoid any mechanical parts to maximize reliability and minimize maintenance.

The transducers communicate between themselves two by two using ultrasonic range waves. Each couple of transducers calculate the signal delay and get information about both, wind direction and wind speed.

Sample rate: 10 Hz

3.4. Power · 6 - 28v

3.5.NMEA · NMEA 0183
· RS422
· RS485
4800/38400 (8n1) bauds

3.6. Wind information · Wind speed
· Wind direction

Wind speed
Range: 0 - 25 m/s
Resolution: ±0.1 m/s at 10m/s

Wind direction
Range: 0 - 360°
Resolution: ± 1°

Output sentences:

\$IIMWV,XX,R,XX.XX,N,A*CR\r\n
[Wind speed and direction in knots]

3.7. Easy mount · 16 mm
(M16x2 female thread)

Ultrasonic can be mounted in a simple way since it comes with a threaded lower part (16 mm M16x2 female thread).



A wide range of accessories can be used with the device

1. CARBON FIBER POLE
 - 33 cm.
 - 100 cm.
2. ALUMINUM POLE
 - 33 cm.
 - 100 cm.
3. ULTRASONIC MAST MOUNT

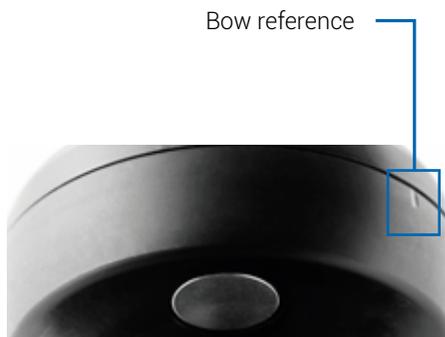


*Please, visit our website and check accessories availables and their possible combinations.

4. Installation

4.1. Installing the unit

The Ultrasonic has to be oriented to the bow taking as reference the mark that appears at the top (as shows at the image below).

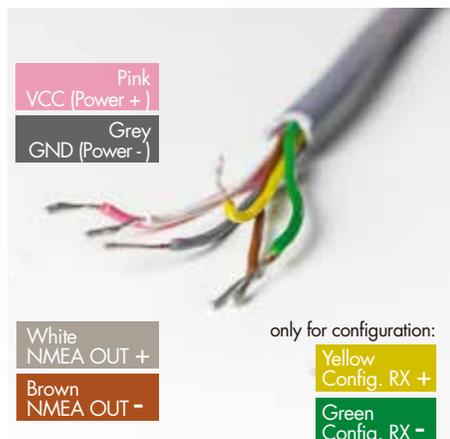


As we describe you before, comes with a threaded lower part (16 mm M16×2 female thread) that you can adapt to your available accessories.

It is a standard measure, great variety of accessories in the market adapt to it.

*Please check our available accessories on our website.

4.1. Cable connections



5. General information

5.1. Maintenance and repair

The Ultrasonic does not require great maintenance thanks to the avoiding of the moving parts in this new design.

Transducers must be kept clean and aligned. Impacts or incorrect impulsive handling may lead to transducers misalignment.

The space around the transducers must be empty and clean. Dust, frost, water, etc... will make the unit stop working.

Rinse with freshwater and let dry.

5.2. Warranty

Warranty is void in case of non-following the instructions of use, repair or maintenance without written authorisation.

This product is for leisure purposes exclusively. Any wrongful use given by the user will not incur in any responsibility of Calypso Instruments. As well, any harm caused to ULTRASONIC WIRED STANDARD by a mistaken use will not be covered by the guarantee. Using assembly elements different from

those delivered with the product will void the guarantee.

Changes on transducers position/alignment will avoid any warranty.

For further information please contact Calypso Technical Support through info@calypsoinstruments.com or visit www.calypsoinstruments.com.

5.3. General recommendations

The Ultrasonic has been calibrated with accurate, following the same calibration standards for each unit.

Regarding to mount the unit

As we describe you before, you have to prepare the mast head for the mechanical installation. Align the North mark of the Ultrasonic in order to have it heading to the bow.

Then install the sensor in a location free from wind perturbation, usually on the mast head.

Other important aspects

·Do not attempt to access the transducer area with your fingers.

·Do not attempt any modification to the unit.

·Never paint any part of the unit or alter its surface in any way.

If you have any questions or doubts, please contact directly with us. We will be glad to assist you in any time.

Calypso Instruments team thanks you for your confidence.



C/ San Jorge, 1, 4º B
50001 Zaragoza
Spain
Telephone number: +34 901 955 974
Fax: + 34 901 955 109
E-mail: info@calypsoinstruments.com

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ULTRASONIC Wired Standard
User manual English version 1.0
01/04/2019