



**A new way  
to read the wind!**



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### Exhibiting for the first time at METS

**LCJ Capteurs** started designing and manufacturing wind sensors in 1999 and the current range of ultrasonic wind vanes/anemometers caters for a wide range sailing demands.

**LCJ Capteurs** sensors have proved their build quality, reliability and accuracy in the harsh marine environment and are now widely used in other fields such as weather stations, industrial applications, security and agriculture to name a few.

All products are designed and manufactured in the Nantes region in France where they are fully tested throughout the manufacturing process.



**2013** will see a number of important additions to the product range including the introduction of the **CanBus** interface, compatibility with NMEA 2000 instruments and a Rotating Mast kit which can be added to the **CanBus**.

### LCJ Capteurs history in 5 steps:

1999: **first ultrasonic wind sensor on the market**, the **CV3F** offers a +/- 7% accuracy for wind speed and +/- 5° for wind angle (measured at 19 knots). This sensor was an immediate success and widely used as an OEM component.



2006: the **CV3Fm6** is an evolution reducing the weight down from 275 gr to 220 gr only and increasing the accuracy to +/- 3° only for both wind speed and wind angle

2008: introduction of the new **CV7** sensor. This model achieves a +/-2% performance for only 100 gr!



2011: **LCJ Capteurs** launches the **wireless** version of the **CV7** ultrasonic sensor!



2012: the **CV7-C** is the latest generation of ultrasonic sensors and it features remarkable performance: data acquisition with 60 measurements per seconds, processed data updated 4 times per seconds and avionic grade cable as an option, 700 mm vertical carbon arm places the sensor out of the sails disturbance, only 12mA at 12 Volts, settable damping...



**2013:** **LCJ Capteurs** introduces a **rotating mast sensor** kit and the **CanBus** option which allows interfacing with instruments compatible NMEA 2000. All the **LCJ Capteurs** ultrasonic wind sensors feature an NMEA0183 interface as a standard and can be ordered with the relevant interface option for a direct integration to most of the systems available on the market. LCJ Capteurs can develop specific interfaces on request.

### **CV7-CanBus: the "CanBus" option is now available!**

This device offers an embedded barometric sensor adding more information to the system through a barometer function page.

The **CanBus** is available by adding a "Black-Box" interface with its own independent set-up commands: a clever system combines a rotary encoder with two settings buttons allowing setup to be achieved directly with no need to use a specific display or a PC. All operation can be followed on a standard compatible display connected to the bus.

### **An optional connection for a potentiometer type mast angle sensor can be added**

This option opens the integration of CV7 wind sensors to any instrument systems available on the market and installed on a sailboat with a rotating mast. The wind direction is automatically corrected from the mast angle.

Data such as wind angle, wind speed, air temperature and barometric pressure are sent by this interface directly to the **BusCan**

The PGNs used by this interface box are:

TX: 59392; 60928; 126464; 126996; 130306; 130311

RX: 59392, 59904; 60928

With the CanBus LCJ Capteurs users can now enjoy receiving data on their NMEA 2000® compatible instrument systems which can use the ultrasonic data in the process of many performance functions. This makes LCJ Capteurs sensors an essential component of a modern high performance navigation system.

*LCJ Capteurs is a registered manufacturer with a "NMEA2000 Manufacturers registration code".*



### **LCJ Capteurs is also a RandD office**

Should any organisation have a project involving wind measurement, LCJ Capteurs is the ideal partner to help. The team can handle the project development and design the technical parts needed.

Their expertise in wind data acquisition and processing will add value and put a pace in the achievement of projects.

**LCJ Capteurs**, A human and technological adventure

Created by Christian Lamiroux (also creator of MLR Electronique) in 1999.

This famous expert is well-known in the world of Marine electronics.

With now the 4th generation of sonic wind sensors, **LCJ Capteurs** has manufactured and supplied more than 5000 sensors now in use all over the world.

Our mission is to supply high quality ultrasonic wind sensors (vanes and anemometers) for marine use, with the following features: compact, light and energy efficient at the best price.

Our products are respectful for men and the environment and we are proud of them.

All **LCJ Capteurs** are designed and manufactured in the Nantes region in France where they are fully tested throughout the manufacturing process.

**Compatible and standardised wind sensors**

All ultrasonic wind sensors in our range can be directly run either by a P.C., or by any other equipment with normalized NMEA© input as well as any specialised equipment equipped with a common interface.

**Sensors for marine use distributed worldwide**

**LCJ Capteurs** sensors are distributed worldwide by a network of specialist dealers in the marine trade.

The main benefits of ultrasonic sensors with no moving parts are:

- light
- compact
- Robust design
- Low electrical consumption
- Full calibration
- Shock resistant
- Resistant to wind gusts
- Resist to birds aggression
- Long life time
- Repeatability of the measures in time
- Resilience to the gyroscopic effect
- Stability and sensitivity in light winds
- Small wind surface
- 2 Years guarantee (each unit comes with a quality check certification)
- Competitive price

**Contact for the press:**

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