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COMPATIBLE AND STANDARDIZED SENSORS
All sonic wind sensors in our range can be directly run from either a P.C. or with any other equipment using normalized NMEA² input as well as any specialized equipment equipped with common interface.

SENSORS FOR MARINE USE DISTRIBUTED WORLDWIDE
No moving parts - Robust design - Resistant to shock, wind gust, birds - No ageing - Maintenance free - Repeatability of the measures - Insensitivity to the gyroscopic effect - Stability of sensibility to light winds - Small wind drag - Efficient with heel angle up to 30° - Light - Compact - Low electrical consumption - Competitive price.

Because the wind never stops blowing…
PRINCIPLE OF OPERATION:
The sound, the ultrasound is conveyed by the movement of the fluid in which it crosses. The electroacoustic transducers (1) communicate between themselves two by two by ultrasonic signals (2) to determine, following the orthogonal axes, the wave transit time differences induced by the air flow (3). The measurements are combined in an integrated calculator in order to establish the wind module and its direction in relation to a reference axis. The temperature measurements are used for calibration corrections (4).

CV7 Transducers communicate between themselves delivering four independent measures. The validity checks are some reinforced while head wind measured vectors are preferably used for calculations. This method gives a sensitivity of 0.25 knot, a dynamic of 80 knots and an excellent linearity.

In the CV3F, the signals ultrasounds forward in a space open to the wind of approximately one centimeter height separating transducers and reflectors from waves while following two vectors. This method gives a sensitivity of 0.5 knot, a dynamic of 99 knots and a good linearity.

CV7SF WIRELESS ULTRASONIC WIND SENSOR
For Day-boats, Light yachts, Dinghies, Club house weather stations, Home weather station.

CV7SF is a new wind sensor which completes the LCJ Capteurs series of ultrasonic products. It is wireless, stationary, and without power supply. One of its advantages is to simplify installation on elevated sites for measurements where the wind is free and unobstructed. On ships, another benefit is the elimination of cable weight in the mast. CV7SF combines advanced technologies: ultrasonic measurements, solar power supply, wireless digital transmissions, supercapacitor for electrical energy storage.

The CV7SF wind sensor integrates a radio transmitter, a photovoltaic cell and an energy accumulator. The measurement of wind speed/direction and temperature is transmitted at a short time interval of 25 ms at an average rate of 1 second during the day and 15 seconds during the night to cover a 15-hour night. The radio signal is remotely received by a receiver/decoder box and formatted, providing standardized messages directly usable by computer USB or COM ports or by specialized navigation displays. The receiver is a low consumption unit and may also be supplied from the 12 V, from COM port or USB port. The link range is more than 50 m in free space.

NEW!!!
CV7-C-Canbus / CV7-C-RM
The CV7-C can be delivered with a CanBus junction box for interfacing with instruments compatible NMEA 2000. The CanBus junction box includes an atmospheric pressure sensor. A rotating mast sensor input (potentiometer) is available as an option.

StatMETEO WEATHER STATION
This software for PC allows recording the wind data which are displayed on graphs. Multi-language setup.
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CV7-V

Technically identical to the CV7, it features a vertical arm more suitable for mounting on a motor-boat.

CV7-C

Upgraded wind sensor based on the CV7 series with high speed data output and a long carbon arm.

For performance sailing boats or workboats using dynamic positioning.

CV7-C-Canbus / CV7-C-RM

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CV7SF

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Compatible with all modern navigation instruments.

NEW!!!

www.lcjcapteurs.com
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A new way
to read the wind
A NEW WAY TO READ THE WIND

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NEW! BaroPlug

ULTRASONIC WIND SENSOR

OPTIMAL ACCESSORIES

<table>
<thead>
<tr>
<th>Options</th>
<th>CV3F</th>
<th>CV7</th>
<th>CV7-V</th>
<th>CV7-C</th>
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CHARACTERISTICS

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<tr>
<th>CHARACTERISTICS</th>
<th>CV3F</th>
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<th>CV7-V</th>
<th>CV7-C</th>
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<td>8 to 33 VDC</td>
<td>8 to 33 VDC</td>
<td>8 to 33 VDC</td>
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<td>9 mA</td>
<td>9 mA</td>
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<td>9 mA</td>
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<td>-15°C/55°C</td>
<td>-15°C/55°C</td>
<td>-15°C/55°C</td>
<td>-10°C/55°C</td>
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<td>25 meters coaxial cable 4 x 0.22mm²</td>
<td>25 meters coaxial cable 4 x 0.22mm²</td>
<td>25 meters coaxial cable 4 x 0.22mm²</td>
<td>Radio transmitter 400 m, 10 to 27 VDC</td>
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<td>Vertical arm Length: 30 cm</td>
<td>Carbon Ø 16 mm</td>
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<td>WEIGHT OF THE HEAD INCLUDING THE SUPPORT AND CLAMP</td>
<td>375 g</td>
<td>200 g</td>
<td>200 g</td>
<td>200 g</td>
<td>200 g</td>
</tr>
</tbody>
</table>

| Compliance - warranty: 2 years in our factory. Specifications subject to modification without notice | LJC CAPTEURS | ZA Le Chêne Ferré - 44120 VERTOU - France - Tel : +33 (0) 2 40 05 08 55 | www.lcjcapteurs.com - info@lcjcapteurs.com |