

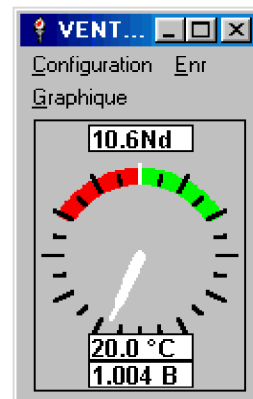
# CV3F

## Static Ultrasonic Wind Sensor



CV3F is a new generation wind sensor without moving parts, which provides the following signals on a standard serial port: wind velocity in m/sec or knots, relative direction in degrees and the temperature in degrees Celsius. (atmospheric pressure in optional)

The wind sensor can directly be connected to a PC or can be read by equipment with a standard NMEA 183 input.



The advantages of the CV3F wind sensor are:

- Robust design, resistant to: shock, wind pulses, birds
- No wear: no moving parts
- Insensible to gyroscopic effects
- Stable sensibility at low wind speeds
- Small wind surface
- Open electric connection
- Mast inclination due to wind is compensated
- Protected against weather conditions
- Competitive price

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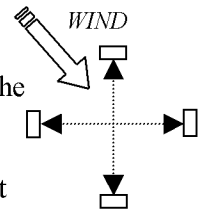
LCJ CAPTEURS  
SARL au capital de 38112 €  
APE : 742C – SIRET 424 933 075 00022

### Principle of operation:

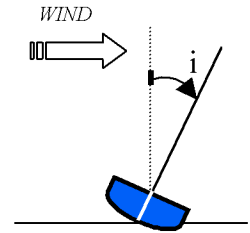
The movement of the medium through which it passes transports ultrasonic sound. Four electro-acoustic transducers are coupled pair according to two perpendicular axes by ultrasonic signals to measure the delay time of the sound waves, which are displaced by the moving air.

The measurements are calibrated in an integrated processor, which determines the speed and the direction relative to a reference axis. The temperature signal is used for calibration.

This measuring method has a sensibility of 0,5 knot, a dynamics of 100 knots and an excellent linearity.



Mast inclination due to wind is compensated to 45 degrees...  
Typical modification of modulus of wind = 7%



### Delivery contents:

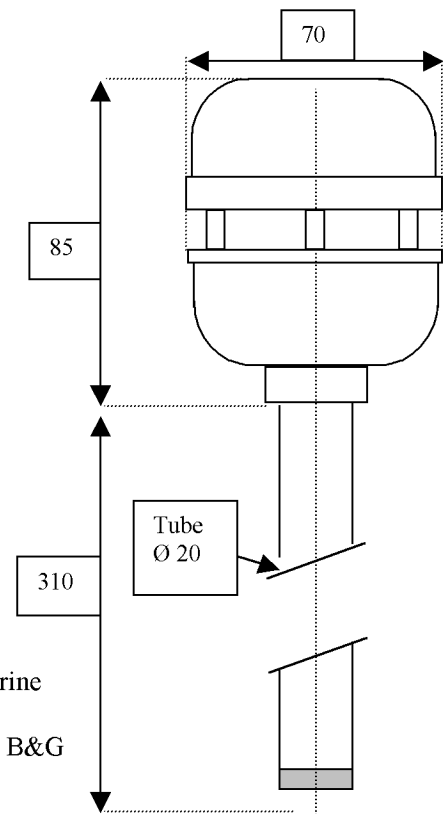
- Measuring head CV3F
- Support 300 mm
- Connection ring
- 25 m coaxial cable with connection
- Connection box for power supply and read out
- Mounting instructions

### Characteristics:

- Numeric output signals:  
NMEA 183, MWV, XDR
- Sensibility for wind speed: 0,5 knot
- Resolution: 0,1 knot
- Dynamics of wind speed: 0,5 to 99,5 knot
- Sensibility for direction: +/- 1,5 degree
- Resolution: 1 degree
- Power supply: 10 to 14 VDC, 25 m-amp
- Temperature range: -10°C (without ice) to +50 °C

### Accessories :

- OPTION ST : Compatibility with ST40 Wind, ST60 Wind – Raymarine
- OPTION Sil : Compatibility with NEXUS
- OPTION BG : Compatibility with Network, Hercule, Hydra, H1000 - B&G
- OPTION BARO : Measurement of atmospheric pressure with Wind
- OPTION 4-20mA : Analog outputs 4-20 mA
- Adapter 1" : fixing on equipment like / such as GPS Antenna
- SM5F : Measurement of wind, relative humidity and Temperature



Dimensions : mm  
Weight : 275 g

Your dealer