

Transmission

The impellers, mounted on synthetic sapphire bearings, are equipped with powerful magnets that generate magnetic impulses. These impulses are collected by coils (also called "Sensor") and treated electronically to be displayed speeds on a LCD, as speeds. The impulses can go through any materials : fiberglass, carbon fiber, aramid fiber, wood, plastic, aluminium, stainless steel, etc... This is why you do not need to pierce your hull. This very sensitive system may display a value near an electric engine, a computer or an electric light, even if the impeller is not turning. This is normal and does not affect the readings when the impeller is turning. This original and patented transmission process is the property of JDC ELECTRONIC S.A.

Precision

Tests were made at the Bremen University (Germany) in hydraulic canals. Results clearly showed that the SPEEDWATCH WAVE is in the L.D.A. (Laser Doppler Anemometry) imprecision range of 3 %.

Spin Out

All water tests were made in real situation with high speed windsurfs (more than 30 knots) showed that there was no turbulence due to the T attachment that would take down the fin. Information transmitted by major European windsurf manufacturers.

Trail

The impeller trail is 40 grams at 10 knots. Measurements were made in hydraulic canals under the care of the Bremen University in Germany.

Dimensions : 85x67x31 mm

Weight : IS 115 gr. ES 170 gr.

Temperature : - 10; C to + 50;C

Measuring range : 0,5 to 99,9 knots or km/h

Precision : +/- 2%; +/- 1 digit

Developed and manufactured by :



**Rue des Uttings 40
CH-1400 YVERDON**

Fax +41 (024) 445 21 23

E-mail : info@jdc.ch

Internet : www.jdc.ch

Limited warranty

JDC Electronic makes every effort to ensure that its products meet its high quality standards and warrants its new products to be free from defective material and workmanship under normal handling and use by the first consumer purchaser. This limited warranty shall be in effect for one year after the date of purchase by the original consumer purchaser. During the limited warranty period, JDC ELECTRONIC will repair or replace without charge any defective product with a comparable product. The defective instrument must first be returned to the original purchase place. A copy of the original sales slip will establish the date of purchase. This limited warranty will not apply to any instrument that has been misused, improperly installed, repaired, altered or which has been the subject of any negligence or accident.

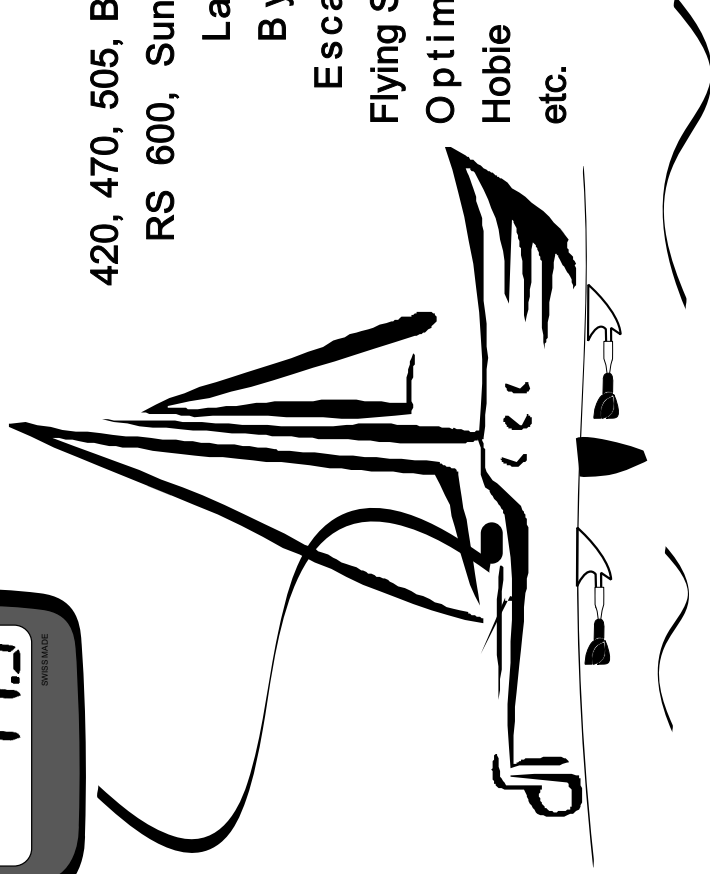
SPEEDWATCH

This Swiss-made instrument gives you precise current speed through water, maximum speed, average speed for 6 seconds, as well as distance traveled. No thru-hull holes required! SPEEDWATCH works with most one-design boats, as well as kayaks, dragon boats, sit-on-tops and outrigger canoes.



SPEEDWATCH easily fits the following craft :

420, 470, 505, Buzz,
RS 600, Sunfish,
Laser,
Byte
Escape,
Flying Scot,
Optimist,
Hobie Cat,
etc.



2 SPEEDWATCH models available :

IS Internal Sensor (no cable)

Applications : windsurf, small sailing dinghy, small catamarans, kayaks
Maximum distance between the impeller and the box : 20 to 50 centimeters.

Provided accessories :

- 1 marine impeller
- 1 fin removable
- 1 base plate
- 2 screws
- 2 T attachments
- 2 adhesive strips
- 2 Dual Lock™ pieces
- 1 small string



ES External Sensor (with a 3 meters cable)

Applications : catamarans, sailing dinghy
The cable permits the display to be placed on a mast or bulkhead while the sensor is close to the

Provided accessories :

- 1 marine impeller
- 1 fin removable
- 1 base plate
- 2 screws
- 2 big Dual Lock™ pieces
- 2 small Dual Lock™ pieces
- 1 big adhesive P clip
- 3 small adhesive P clips



Mounting of the cases

Place the 2 self-adhesive Dual Lock™ pieces on a clean spot.

WARNING : the distance between the impeller and the case can vary between 20 and 60 cm, but you have to know that a short distance allows a better pick up of low speeds. Wait 24 hours before first use for optimum adherence.

Attach the case with the 2 pieces Dual Lock™ placed behind the case.

Secure the instrument with the lanyard.



Place the 2 big adhesive Dual Lock™ pieces on a clean spot on your craft and the 2 small adhesive Dual Lock™ on the back of the instrument.

WARNING : the distance between the impeller and the case has to be as short as possible (max. 20 cm) for optimal use. Wait 24 hours before first using for optimum adherence.

Attach the case with the Dual Lock™ on its back.

Place the cable with the 3 small P clips and the sensor in front of the impeller with the big P clip.

WARNING : put the sensor perpendicular to the impeller axis.



Display unit functions

Middle button : on / off

Automatic shut-off after 18 hours. Keeps all values in memory.

Left button : changing the mode

Right button : short push : reset. Long push : switch from km/h to knots and from knots to km/h.

Only "maximum speed reached" and "traveled distance" modes can be reseted.

Main display shows different speeds and traveled distance (see symbols underside).

Small display always shows maximum speed reached.



None :
current speed

maximum speed reached (with resetting system)

speed averaged on 6 seconds
distance traveled (with resetting system)

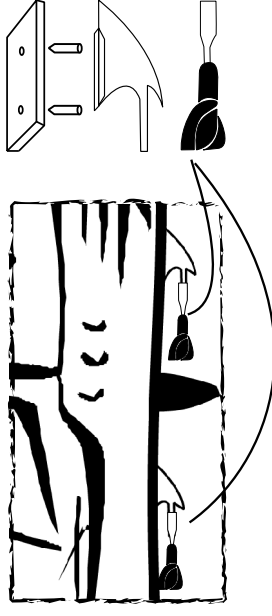
Mounting of the removable fin and its base plate

Place the base plate on a clean spot in the right direction (so the fin and the impeller are perpendicular to the sensor), or screw it for more security.

WARNING : the distance between the impeller and the display (IS version) or the sensor attached at the end of the cable (ES version) has to be as short as possible (max. 20 cm) for optimum use.

Mounting of the T attachment for windsurf only

Pass the stem through the adhesive strip hole and put the T bar alongside of the fin. Fold back and glue both sides of the adhesive strip on the fin. Screw the impeller to the end of the T attachment.



For catamaran

Place the removable fin on one of the hull's internal side, at front transom level, to avoid damage while launching or beaching.

For sailing dinghy

Place the fin under the hull behind the center board or keel, out of turbulence.