



After two years of research and real-life tests, we are really proud to announce our new product, the **CProbe**. We are sure that it will change the meaning of “situation awareness” in the free-flight world.

As someone of you already saw in the last two editions of the Coupe Icare – where we introduced some early prototypes – our **CProbe** is shaped around its Pitot tube, but it contains much more than that.

Here are a few technical details about the **CProbe**:

- Real Pitot tube, based on a differential pressure sensor with a resolution of 0.01 Pa.
- Three-axis gyroscope (measures up to 2000°/s).
- Three-axis accelerometer (up to 8 g per axis, with a resolution of 0.1 g).
- Gyroscope-stabilized magnetic compass (1° resolution).
- Thermometer (from -40°C to 80°C, 0.1° resolution).
- Hygrometer (from 0 to 100% RH, 0.1% resolution).
- High resolution absolute pressure sensor (10 cm).
- Bluetooth™ and cabled serial connections.
- 30 hours battery life with Bluetooth™ connection and 60 hours with serial connection.

All the data provided by these sensors can be displayed and further analyzed by our flight computers, to provide the pilot with a hugely useful, and up to now unheard of, set of data. At present, our **CPilot PRO** can exploit the **CProbe** to determine or implement the following:

- Wind speed and direction, even while flying straight.
- Instantaneous glide ratio, after calculating out horizontal air movements.
- True air speed (TAS).
- Total-energy-compensated variometer.
- Estimated cloud-based height.

Glide and speed-to-fly calculations can be performed with an extremely high accuracy and will allow the pilot to take the correct decisions and optimize his/her flight performance.

As usual, other software features will be added in the future and will be made available for free to our customers.

The Compass Team