



Operating instructions for the sensor box

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I'm working on a Mac or Linux system. Minor details may vary on a Windows computer!

I. General

The Sensor Box offers the possibility of connecting the sensor board from the Stefly OpenVario, the OpenVario DS2, or a self-built OpenVario to a Bluetooth-enabled device running XCSoar or OpenSoar via Bluetooth. This means that neither an Android-based OpenVario nor any other device running XCSoar or OpenSoar requires the purchase of an XCVario, a Larus, or a similar device to obtain reliable pressure data.

II. Commissioning the sensor box

1. Connect the three pressure ports to dynamic pressure, static pressure, and TEK
2. Connect the sensor box to 12V
3. When the sensor box is used for the first time, a calibration of the differential pressure sensor is performed automatically
4. This calibration can also be initiated by the user at any time using the small push button
5. The start of the calibration is indicated by a single flash, the end by three flashes of the blue LED

III. Verbinden der Sensorbox mit XCSoar oder OpenSoar

1. Connect the sensor box to your Android device via Bluetooth; a PIN is not required
2. The sensor box will appear as a FreeVario SensorBoard
3. In XCSoar or OpenSoar, go to the NMEA device settings and set the FreeVario SensorBoard as a Bluetooth device

IV. Update der Sensorbox

1. Using the "SensorBoard" app for Android, a software update can be installed on the sensor box

V. Exclusion declaration

The FreeVario SensorBox is not EASA or FAA certified. This also applies to many commercial e-varios and flight computers you're probably familiar with.

If you want to know whether you can legally use this sensor box in your glider, consult your inspector. Can you legally install any other (even uncertified) flight computer from other manufacturers? If so, you should also be able to legally install the FreeVario SensorBox. If your aircraft falls under EASA regulations, read CS-STAN, standard amendment CS-SC402a.

This instrument is a DIY project and not an aviation-certified instrument. I expressly point out that use is at your own risk, and any warranty is excluded!