

## EMU 912iS Engine Management Unit for the Rotax® 912 iS receives EASA CS-LSA certification with Lightwing AC4

**Stans, Switzerland and Farchach, Germany (June 17, 2014)** – The Swiss aircraft manufacturer Lightwing AG of Stans has obtained the CS-LSA certification document signed by the European Aeronautical Safety Agency (EASA) for its new AC4 light sport aircraft, equipped with the Rotax® 912iS engine. In the last months prior to certification, Lightwing successfully completed all required reviews and flight tests.

The high wing AC4 combines a unique, simple design and a very high level of flight safety with low fuel consumption and emissions. Extensive flight testing was conducted during the last months which proved that all design objectives have been met. The proverbial “swiss precision” has demonstrated its power again.



**Lightwing AC4 test flight in Switzerland (Lightwing AG)**

The EMU 912iS Engine Management Unit from Stock Flight

Systems/RS Aerotech is the standard engine instrument for the AC4 and has worked flawlessly during the entire flight test process. The EMU provides the pilot with all engine indications. The functionality includes continuous monitoring of the network health status, and the indication of all ECU generated warning and status messages. A fuel pressure sensor is included in the data display.

Using the advanced flight data recording and post processing capabilities of the EMU 912iS, engine installation problems could be detected and corrected at a very early stage. The EMU 912iS software automatically records all ECU messages transmitted on the Rotax® 912iS CANaerospace networks for the entire engine lifetime. An integrated, front panel accessible SDHC interface is used for data storage, system configuration information and software upgrades.

Included with the EMU 912iS is the Engine Monitoring Debriefing System (EMDS) software, a powerful toolbox which uses the data files recorded on the EMU 912iS SDHC card.

The 4Hz GPS/Galileo sensor of the EMU 912iS adds time correlated satellite data to the engine data recording, allowing to generate performance data from the combination of engine data with position, ground speed, height and time. Flight paths together with engine data can be visualized using Google Earth.



**EMU 912iS (Stock Flight Systems/RS Aerotech Ltd.)**

## **About Lightwing AG**

Lightwing AG was founded in the year 2000 in Stans, Switzerland, with the objective to engage in safe, ecological and affordable flying. After years of experience in the field of private aviation, Lightwing took the EASA-CS LSA certification specifications (established 2011) as a challenge and developed the new Light Sport Aircraft Lightwing AC4 CS-LSA. The AC4 should meet highest safety, emissions- and noise standards while facing today's cost problems. It was a high priority to equip the aircraft with an injection engine and to take advantage of modern engine control and flight systems. The aircraft is a simple but solid construction with precision workmanship that results in the highest reliability and in low maintenance costs. The aircraft is an excellent utility aircraft and very suitable for pilot training.

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## **About Stock Flight Systems**

Stock Flight Systems has been established in 1993 as an aerospace industry support company and has focused on the development and integration of flight data acquisition, recording and inflight test and control systems for aeronautical applications. As a service to customers, Stock Flight Systems also performs flight testing of sensor systems and data communication and processing equipment and is a partner in international aeronautical research programs. Stock Flight Systems has developed and continuously maintains the CANaerospace data bus protocol standard, used with the new Rotax® 912iS aero engine and numerous other avionics systems.

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## **About RS Aerotech, Ltd.**

RS Aerotech, Ltd. has been established in 2012 and supplies the entire Americas (South America, Central America, North America and Canada) with flight data recording systems and electronic add-on products for the Rotax® aero engines.

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