

## Stock Flight Systems introduces Engine Management Unit for the new Rotax® 912iS aircraft engine

**Farchach, Germany (March, 12th, 2012)** - Stock Flight Systems has successfully flight tested the Engine Management Unit for BRP's new Rotax® 912iS aero engine. The 4-cylinder, 100HP engine was officially introduced to OEMs, media and distributors invited for the event at the BRP-Powertrain factory in Gunskirchen on March 8th, 2012. In addition to being the most fuel efficient aircraft engine for ultra-light and light sport aircraft, the new Rotax® 912iS also features a dual redundant electronic Engine Control Unit (ECU).



Rotax® 912iS (© BRP Powertrain GmbH)

The EMU 912iS of Stock Flight Systems communicates with the redundant CANaerospace data bus interface of the ECU and 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. An optional fuel pressure sensor is included in the data display.

The EMU 912iS software automatically records all ECU messages transmitted on the redundant Rotax® 912iS CANaerospace networks for the entire engine lifetime. An integrated, front panel accessible SDHC interface is used for data acquisition storage, system configuration information and software upgrades.



EMU 912iS (© Stock Flight Systems)

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. Among other features, EMDS allows data visualization and replay in engineering formats and the export of the data into other formats.

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.

The EMU 912iS has been successfully flight tested at altitudes of up to 18.000ft, and temperatures as low as -18 degrees Celsius.

## **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. Projects already successfully completed by Stock Flight Systems include inflight test and control systems, test stands and flight simulator cockpit equipment. The products of Stock Flight Systems are designed to operate in harsh environments and can be qualified to highest standards.

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