

FIA Homologates FlowSonic® Elite HT Fuel Flow Sensor for High-Temperature LMP1 Application

31 May 2016 – Sentronics™ Limited's latest FlowSonic® Elite HT ultrasonic fuel flow sensor has been homologated for use in the LMP1 class of the FIA World Endurance Championship. The new model increases the upper temperature limit from the original FIA specification of 85°C to 120°C.

The original FlowSonic range was created for the fuel flow control regulations introduced to FIA Formula 1 and LMP1 competition in 2014. Sentronics provides F1 teams with reference sensors for bench testing purposes, while WEC LMP1 teams now have the option of using the FlowSonic Elite or the new Elite HT unit.

Both FlowSonic Elite models rely on state-of-the-art ultrasonics, a true 2.2 kHz measurement rate, and advanced internal processing to deliver industry-leading accuracy and repeatability. Data outputs include volumetric, mass, and cumulative flows, as well as running time, speed-of-sound, and diagnostics. The Elite HT can handle the full range of flow rates, temperatures, fuel types, and vibration conditions found in motorsport. Having benefitted from intensive development by teams and engine suppliers in both F1 and LMP1, the FlowSonic's reliability and durability match its performance.

Since its formation in 2013, UK-based Sentronics has established an impressive record of engineering high-level custom solutions based on its innovative, patented core technology. Prior to developing the Elite HT for LMP1, the company responded to an F1 engine supplier's request to address measurement errors stemming from aliasing in the original FIA-homologated 1kHz sensor by more than doubling the update rate. The resulting FlowSonic sensor was fitted to the winning car in the last four Grands Prix of 2015.

Sentronics Managing Director Neville Meech said, "We are committed to responding rapidly to customer needs by adapting our technology to their specifications. We've done it for F1 and WEC over the last couple of years, and now again with the low-flow and high-flow sensors we are launching for the OEM automotive testing market at the Automotive Testing Expo Europe in Stuttgart this week."

Orders are now being accepted for the FlowSonic Elite HT sensor for delivery within two weeks. For more information, please visit www.sentronics.com or contact Sentronics directly at:

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