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Sentronics™ FlowSonic® Super-Compact Flow Sensors Ready to Meet Expanding Market at Automotive Testing Expo Europe 2017

20 June 2017 – Sentronics™ Limited bring their latest super-compact ultrasonic fluid flow sensors for the automotive testing market to this week's Automotive Testing Expo Europe in Stuttgart, Germany. The final production model FlowSonic® LF for low-volume flow applications will be on show alongside a new version of the FlowSonic® HF for high-volume flows.

The FlowSonic LF has been specifically designed to measure the ultra low-volume fuel flows found in today's high-efficiency road car engines. Its easy bench-to-vehicle portability makes it an ideal tool not only for OEM engine development but also emissions testing to the new RDE and WLTP regulations. Those standards have led a range of OEMs to evaluate and purchase the LF over the last year.

The FlowSonic HF has been developed for precise measurement of the high-volume coolant, fuel, and oil flows seen in heavy-duty commercial and industrial vehicle powerplants. For coolant flows in particular, the FlowSonic's solid-state design avoids the risks often associated with mechanical flow sensors.

Both models feature advanced ultrasonics, a true 2.2 kHz update rate (for the LF), and fully digital internal processing delivering laboratory-quality data with industry-leading accuracy and repeatability. Data outputs include volumetric, mass, and cumulative flows, as well as run time, speed-of-sound, and diagnostics. The FlowSonic can accommodate a wide range of flow rates, temperatures, vibration conditions, and fuel types. CAN, TTL pulse, and analog output formats are available. With no moving parts and the benefit of intensive motorsport dyno and track testing, the FlowSonic's performance is matched by its reliability and durability. Pricing is highly competitive with conventional fuel flow measurement equipment.

Motorsport continues to be a key R&D platform and shop window for Sentronics' techonology and products. From its original application as a regulatory device, race teams worldwide are discovering the FlowSonic's ability to deliver vastly improved data for use in managing fuel consumption and pit stop strategy. Building on its success in winning four Formula 1 races at the end of 2015, the FlowSonic has been run by leading teams in this year's Indianapolis 500 and Le Mans 24 Hours and is playing an ever-increasing role in OEM race engine development.

Since its formation in 2013, Sentronics has established a record of engineering high-level custom solutions based on its innovative, patented technology. In the racing world, the company reduced measurement instability in F1 by more than doubling the sensor update rate and at Le Mans by raising its upper temperature limit by 35°C. Beyond the race track, Sentronics has successfully adapted its core technology to handle the ultra-low flow rates of modern road car engines for OEMs and meet the flow rate and temperature challenges of the aviation and aerospace sector.

Orders are now being taken for FlowSonic LF sensors for delivery within six weeks, while FlowSonic HF demonstration units will be available from September. For more information, please visit www.sentronics.com or ATEE stand 1375 in Stuttgart, where a flow visualisation demonstration of the FlowSonic LF's capabilities will be running throughout the expo.

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