

FOR RELEASE

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Vectron International's SenGenuity Announces New ViSmart Viscosity Sensor Capabilities for Oil Condition Monitoring Applications

ViSmart™ Viscosity Sensors Now Able to Correlate to Data Acquired From Lab Instrumentation

HUDSON, NH — Nov 20, 2007 — SenGenuity, the Sensors and Advanced Packaging division of Vectron International, a leader in the design, manufacture and marketing of Frequency Control, Sensor, and Hybrid Product solutions, today announced that its ViSmart™ Viscosity Sensors are now able to correlate to data acquired from lab instrumentation for challenging, real-time, in-line oil condition monitoring applications. In today's market, significant legacy data and industry standards require that sensor readings be equivalent to those obtained by lab methods. This latest capability ensures that customers can obtain lab-compatible results from the ViSmart sensor in-line and real-time for in-situ viscosity measurements, complimenting lab measurements and analysis methods.

“Measuring the viscosity of oil is a rapid method of determining oil condition, and is universally considered to be one of the key parameters in assessing asset readiness,” said Kerem Durdag, director of business development, SenGenuity. “By successfully creating correlation functions that relate our ViSmart sensor data to ASTM lab viscometer data, SenGenuity has clearly demonstrated that its solid-state, real-time, in-line viscosity sensor can trend and track viscosity data in a similar fashion to a lab tool—with accuracy levels ranging from 91% to 99%, as compared to an industry-standard lab viscometer.”

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SenGenuity obtained the constants in the interpolation function between kinematic viscosity and ViSmart's native unit of measurement, acoustic viscosity. SenGenuity used the sensor to obtain a functional dependence of the constants on shear rate for each oil tested, which included mineral and synthetic oils for engine, turbine, hydraulic and gear applications. The results were a look-up function that allowed an oil viscosity (kinematic, dynamic, or acoustic) to be interpolated at temperature and shear rate. For each oil, a pair of correlation functions converting between the measured acoustic viscosity and interpolated kinematic viscosity were evaluated. The R^2 of the correlation for individual oils and groups of oils were determined.

“This successful correlation enables SenGenuity to provide our customers with the necessary tools to create their own correlation functions, allowing them to map the dataset to their legacy database and use our sensor for their applications,” said Shravan Jumani, product manager, SenGenuity. “Our customers can now determine that our ViSmart viscosity sensors not only operate at repeatable shear rates but also that the operating shear rates are relevant to the assets being lubricated under normal operating conditions.”

SenGenuity's breakthrough ViSmart viscosity sensor compliments IR spectroscopy and other bulk property sensors and provides instantaneous on-line viscosity and temperature data, has no moving parts with an extremely wide operating range and offers universal plug-n-play connectivity for integration with and into other handheld products. The sensor has been tested in actual commercial and military specified oils in order for a correlation function to be established between the ASTM methods acquired dataset and the sensor generated viscosity values. These correlation functions can be stored on any handheld for automatic conversion. The ViSmart viscosity sensor is currently installed in commercial markets such as machine tool oil monitoring and coating applications in rigorous environments where ROI benefits have been realized.

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The ViSmart model series can be connected to any computer or control platform via the standard protocols, the VisConnect™ transmitter and the forthcoming CANBUS option to provide a continuous audit trail for process monitoring markets to control operating costs and maintain quality standards. Additionally, customers can leverage SenGenuity's starter kit bench-top viscometer data station to acquire multiple channels of continuous viscosity and temperature data.

For more information on the ViSmart sensor please contact SenGenuity's fluid sensors sales team at 603-578-4077. For more information on other Acoustic Wave Sensors from Vectron please contact a customer service representative at 1-88-VECTRON-1 or visit www.sengenuity.com.

About SenGenuity

SenGenuity, an operating division of Vectron International, is a leading provider of breakthrough sensor solutions and products. As part of its growing product portfolio, SenGenuity delivers to customers innovative solutions for measuring the condition of fluids in challenging, embedded environments by coupling its state-of-the-art precision sensor solutions with Vectron's surface and bulk acoustic wave (SAW and BAW) technology. Further, Sengenuity is leveraging its core competencies in AW technology along with extensive experience in radio frequency (RF), signal conditioning, embedded system electronics design and advanced packaging technologies to drive the development of breakthrough solutions for gas and physical sensing applications. Dedicated to taking a leadership role in the \$50 billion sensor market, SenGenuity is continually designing and manufacturing innovative sensing solutions that can be used across a broad range of industries, and are rapidly becoming the new standard for performance and reliability in critical data gathering applications. For more information, please call 1-88-VECTRON-1 or visit www.sengenuity.com.

About Vectron International

Vectron International is a world leader in the design, manufacture and marketing of frequency control, sensor, and hybrid product solutions. Vectron solves complex timing, filtering and sensor challenges by delivering customized solutions that speed time to market and offer low total cost of ownership. Vectron uses the very latest techniques in both bulk acoustic wave (BAW) and surface acoustic wave (SAW) based designs from DC to microwave frequencies. Committed to the industry's highest quality service standard and complete satisfaction, Vectron International leverages its global footprint and 50 years of experience to help customers achieve competitive differentiation and improve their bottom line. Vectron International is headquartered in Hudson, NH and has operating facilities and sales offices in North America, Europe and Asia. For more information, please call 1-88-VECTRON-1 or visit www.vectron.com.

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Helping Customers Innovate, Improve & Grow

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