

**FOR RELEASE**

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***SenGenuity Announces Surface Acoustic Wave  
Wireless Temperature Sensor for OEM Integrators***

*Latest Innovation Provides Wireless Temperature Sensing Capabilities in Industrial Applications,  
Furtheres Commitment to Providing Customers with Leading Edge Solutions for Harsh Environments*

**HUDSON, NH — February 19, 2008** — SenGenuity, a division of Vectron International, a leader in the design, manufacture and marketing of breakthrough sensor products and solutions, today announced the general availability of its TFSS433D SAW (Surface Acoustic Wave) temperature sensor for OEM system integrators for wireless temperature sensing products. The latest advancement in SenGenuity's suite of sensing solutions can be integrated to a wireless interrogator and instrumentation platform to provide a continuous audit trail for process monitoring markets to control operating costs and maintain quality standards.

The TFSS433D SAW temperature sensor is a 433.786 MHz one-port SAW resonator structure specifically designed to have a linear frequency versus temperature characteristic. With a temperature coefficient of frequency of 16.2 ppm/°C (~7028 Hz/°C), it is operable from 0 to 120°C and has an unloaded Q of 8000. It is a low loss structure (2.5 dB max) and is designed for a 50-ohm system.

“At SenGenuity we are committed to providing our customers with leading edge technologies and products. Our latest innovation affords OEMs the ability to wirelessly monitor temperature in a wide range of application environments,” said Tom Cunneen, vice president and general manager, SenGenuity.

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“The TFSS433D is a highly accurate temperature sensor that enables OEMs to integrate precision wireless temperature measurement within their product platform.”

The TFSS433D works within the ISM 433.92 MHz for the defined operating temperature range. SenGenuity’s TFSS433D sensor is designed to provide instantaneous wireless temperature measurements for embedded real-time, in-line environments requiring high resolution and accuracy. The new temperature sensor uses robust and reliable semiconductor technology packaged in a standard tape and reel format. The TFSS433D demonstrates exceptional stability characteristics, pass DIN IEC 68 T2-27 specifications for shock rating and screening according to DIN IEC 68 T2-6 standards for vibration rating. Temperature stability characteristics are assured by DIN IEC 68 Part 2 – 14 Test N standards.

“SenGenuity is dedicated to providing our customers disruptive solutions able to survive harsh environments,” said Kerem Durdag, director of business development, SenGenuity. “When combined with an antenna and interrogation units, this SAW sensor chip makes a great solution for numerous wireless temperature sensing applications. Future developments on this product line are focused on expanding the usable temperature range to meet a greater range of applications.”

For more information on the TFSS433D temperature sensor please contact SenGenuity’s physical sensors sales team at 603-578-4066 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](http://www.sengenuity.com) or [www.visensors.com](http://www.visensors.com).

### **About SenGenuity**

SenGenuity is a leading provider of breakthrough sensor solutions and products and a division of Vectron International. SenGenuity delivers to customers innovative solutions for measuring the viscosity 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 and extensive experience in radio frequency (RF), signal conditioning, embedded system electronics design and advanced packaging technologies. Dedicated to taking a leadership role in the \$50 billion sensor market, SenGenuity is

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continually designing and manufacturing innovative viscosity, gas and physical sensors. SenGenuity's Acoustic Wave Sensors 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](http://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](http://www.vectron.com).

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