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Contact: Nathalie POGGI
Tel: +33 4 97 23 13 30
Email: nathalie.poggi@senseor.com

NEW CE-MARKED TRANSCEIVER FOR SAW SENSORS WIRELESS BATTERYLESS TEMPERATURE MEASUREMENT

SENSeOR's new transceiver WRC001 is CE-marked and complies with Radio-Frequency, Electro-Magnetic Compatibility and Security requirements of European norms. It is thus available for measurements in open spaces as it remotely interrogates SENSEOR's wireless SAW (Surface Acoustic Wave) sensors (e.g. thermowell packaged TSAD100) using only the ISM frequency band 433,05MHz – 434,79MHz.

This compact and powerful transceiver associated with SENSEOR's wireless, batteryless sensors, which combine accuracy and robustness, performs measurements of temperature, pressure and stress. SAW technology benefits can be achieved for a wide range of industrial applications: temperature monitoring on electrical equipment, production chain critical points monitoring, temperature measurements on high-voltage lines. Applications for consumer goods are also possible like monitoring of temperature in cooking utensils for cooking time and heat and energy consumption optimization.

SENSeOR's CE-marked transceiver WRC001 operates in a temperature range from -20 to 55°C (the associated sensors measure up to 200°C). It features an SMA connector (RF 50 ohms) for antenna connection and standardized interfaces (RS232, USB port, analog output). Its dimensions are 18x11x3cm.

SENSeOR's wide band transceiver WRD005 is already available for applications in confined spaces for example temperature monitoring on rotors inside engines.

About SENSEOR

Dedicated to delivering the promise of SAW (Surface Acoustic Wave)-based sensing, **SENSeOR** is a technology company located in Sophia-Antipolis (near Nice) and Besançon, FRANCE. **SENSeOR** recently created its German subsidiary.

Top competencies for all required domains, strong partnerships with world-class research institutes, an outstanding portfolio of technology bricks and IP and industrial production partners allow the high-tech firm to develop and design innovative solutions based on this revolutionary technology for optimal customer value.

Its growing product portfolio delivers high-ROI solutions for end-users, system integrators and OEMs, in the measurement of temperature, stress, and pressure.

Contact: +33 (0)4 97 23 13 20 or contact@senseor.com
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