airius
WIRELESS VIBRATION SENSOR

SPM INSTRUMENT INTRODUCES THE AIRIUS® WIRELESS VIBRATION SENSORS

SPM Instrument AB, leading worldwide provider of condition monitoring technology and products, today announces the release of Airius®, a range of wireless vibration sensors for remote monitoring of industrial equipment.

Providing warning of vibration-related problems as well as gear and bearing faults, Airius is a wireless, battery-powered sensor ideal for remote condition monitoring of standard production equipment such as pumps and fans. Designed and manufactured by SPM Instrument, the sensors build on fifty years of experience in developing reliable and industry-leading solutions for condition monitoring.

WIRELESS TECHNOLOGY FOR COST-EFFECTIVENESS, SAFETY, AND CONVENIENCE

Remote condition monitoring of machinery enables maintenance departments to cut down on maintenance routes, leaving time to work on improvements in other areas of the plant. It also saves costs in terms of cabling and other hardware associated with wired sensors. Airius is ideal for monitoring remote or inaccessible machines, or machines in hostile or risky environments – anywhere the wireless transfer of vibration data is practical, or even a matter of safety.

The Airius sensors are a logical first step into online condition monitoring. It is easy to start small with the cloud-based application Condmaster®.NET (hosted in SPM Cloud), providing easy access to measurement data through a user-friendly graphical interface, then expand with the sophisticated analysis and diagnostic software Condmaster® Ruby.

INDUSTRY-LEADING MEASUREMENT TECHNOLOGY

Airius is a MEMS type sensor with digital output, measuring triaxial vibration and temperature. The sensor currently comes in two versions; one measuring in the 10-1000 Hz frequency range, the other between 2-1000 Hz and 10-5000 Hz with envelope measurement capabilities. Airius supports several different vibration measurement assignments per sensor, with a user-defined number of time-based daily measurements. The signal processing algorithms and calculation routines used are the same as in the high-end Intellinova® online system and the sophisticated portable Leonova® Diamond and Leonova® Emerald instruments.

EASY INTEGRATION AND TROUBLE-FREE USE

The Airius sensors have a compact design, with an energy-saving communication protocol. The careful design and optimal choice of battery technology ensure years of troublefree use and stable monitoring. In idle state, sensor power consumption is extremely low. Using the well-established and stable Wi-Fi data transfer technology, Airius is an easy-to-implement solution that works well within existing IT environments. The IP69 rating makes Airius SPM's most durable sensor, suitable for even the most demanding environments.

STRAIGHTFORWARD INSTALLATION AND EFFORTLESS SETUP

Airius does not require any supplementary equipment besides Wi-Fi routers. The sensors have the shortest response times in the segment, making installation and commissioning straightforward and fast. The SPM Connect app, downloadable for Android and iOS devices, is used to configure the necessary communication parameters to connect to the database. REST API support allows other devices or process control systems to retrieve vibration data from the sensor.

The Airius sensors and SPM Connect app will be available for delivery and download from the week starting June 17th, 2019. Ex versions for potentially explosive environments will be released in the fall of 2019.

PRESS RELEASE

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