



Give Your Machines **a Voice**



PRODUCT CATALOG



VIBRATION SENSOR NODE

The SmartDiagnostics® vibration sensor nodes (VSN) offer highfidelity machine analysis with low operational cost and simple installation. The sensors also use KCF Technologies' proprietary wireless protocol that transmits the full dynamic vibration spectrum over the air on a nearly continuous basis.

- Product Number
- SD-VSN-1
 - SD-VSN-1-N (Nonincendive Sensor for Class 1, Division 2 Locations)

PRIMARY RECEIVER NODE

The SmartDiagnostics® primary receiver node (PRN) wirelessly collects data from the sensor nodes in real time, enabling accurate and reliable monitoring of plant equipment.

- Product Number
- SD-PRN-1

COLLECTION SERVER

In certain industrial applications, it is not possible to place the primary receiver node (PRN) and the the Vibration Monitoring Software (VMS) computer in the same location. For these scenerios, KCF Technologies offers a collection server. The collection server hosts one, or several, PRNs that receive data wirelessly from their nearby sensor nodes. Then, the collection server relays the data to the VMS software computervia a local or wide area network, or the Cloud.

- Product Number
- SD-CS-1 (Network)
 - SD-CS-2 (Cloud)

SOFTWARE

The SmartDiagnostics® Vibration Monitoring Software (VMS) displays near-continuous monitoring of critical equipment by tracking, over time the patterns of machine vibration across a broad frequency. Utilization of VMS is the key to implementing a quality predictive maintenance process.

- Product Number
- SD-VMS-S (1-10 Sensor System)
 - SDVMS-M (11-500 Sensor System)
 - SD-VMS-L (501+ Sensor System)
 - SD-VMS-OPC (VMS OPC Interface)

THERMAL ENERGY HARVESTER

KCF Technologies' thermal energy haverster provides a reliable solution for cases where battery replacement can affect the value proposition of wireless monitoring due to locations being inaccessible or where batteries are precluded. The thermal energy harvester eliminates the need to change batteries by harvesting electrical energy from temperature differential between a surface and surrounding air.

- Product Number
- SD-TH-2

SOLAR ENERGY HARVESTER

KCF Technologies' solar energy haverster provides a reliable solution for cases where battery replacement can affect the value proposition of wireless monitoring due to locations being inaccessible or where batteries are precluded. The solar energy harvester eliminates the need to change batteries by harvesting electrical energy from light.

- Product Number
- SD-SH-1

VIBRATION ENERGY HARVESTER

KCF Technologies' vibration energy haverster provides a reliable solution for cases where battery replacement can affect the value proposition of wireless monitoring due to locations being inaccessible or where batteries are precluded. The vibration energy harvester eliminates the need to change batteries by harvesting electrical energy from mechanical vibration.

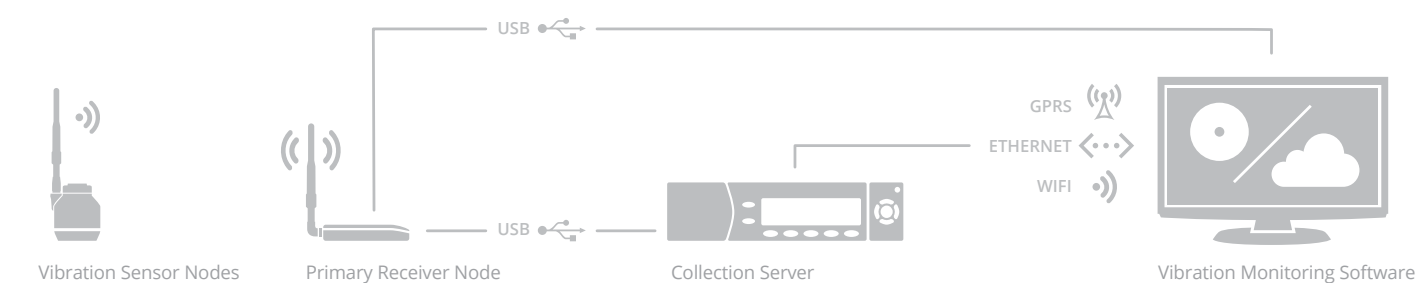
- Product Number
- SD-VH-1

STARTER KITS

For customers new to wireless sensors and energy harvesting, KCF Technologies offers the SmartDiagnostics® Starter Kit. The standard version includes three (3) wireless vibration sensor nodes, a receiver and the software, while the deluxe version also includes three (3) energy harvesters.

- Product Number
- SD-KIT-S (Standard Kit)
 - SD-KIT-D (Deluxe Kit)

The SmartDiagnostics® System



The Smart Diagnostics innovative family of harvester-powered wireless sensor products enables the implementation of advanced predictive maintenance processes for any company. The system provides continuous monitoring of vibration and temperature to track the operating health of the industrial equipment. Smart Diagnostics offers high-fidelity machine analysis with low operational cost and simple installation. Ultimately, the system minimizes downtime, maximizes performance, and reduces costs. In many industrial applications, preventing a single failure through proactive problem detection can justify the cost of an entire wireless sensor system.



SENSOR MOUNTS

Choose from one of three ways to mount your SmartDiagnostics® sensors. Either mount your sensors magnetically, with a stud, or using epoxy. SmartDiagnostics® sensors can even be magnetically mounted on a curved surface.

Product Number
• SD-

SERVICE AND SOFTWARE AS A SERVICE

Whether it is just a couple of blocks away, or across an ocean, VMS Software as a Service, or SmartDiagnostics® in the Cloud, utilizes Cloud computing technology to allow maintenance professionals to view vibration data from their machines even when they are not in the office.

Service
• Annual VMS Software Maintenance and Support (SD-VMS-SWM)
• Annual Extended Hardware Warranty (SD-EW)

Software as a Service
• SD-SAAS

OTHER ITEMS

3' or 10' Antenna Extension Cables with Magnetic Base (SDA-ANT3 or SDA-ANT10)
3' Harvester Power Extension Cable (SDA-HC36)
Large or Small Replacement Carrying Cases (SDA-CASEL or SDA-CASES)
Replacement Batteries (Li-SOCI2) (3 or 5 pack) (SD-035 or SDA-BAT5)
Replacement Energy Harvester Adapter (SDA-EHA)
Replacement 18" Harvester Power Cable (SDA-HC18)
Replacement Antenna (SD-028)
Replacement Battery Cap (SD-029)
3', 6', or 15' Shielded PRN USB Cables (SD-032-3, SD-032-6, or SD-032-15)



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