



Starter Kit

Industrial wireless sensors offer the promise of major cost savings through proactive maintenance and downtime avoidance. However, the technology is only recently available and some customers want to see the system operate in a specific application before making a system-wide commitment. For customers new to wireless sensors and energy harvesting, KCF Technologies offers the Smart Diagnostics Starter Kit.

Give Your Machines **a Voice**



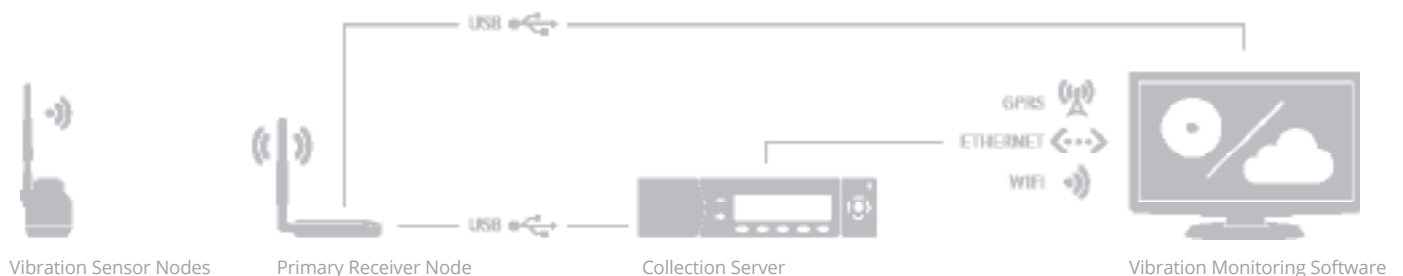
SMART VALUE

The Starter Kit is ideal for customers who are new to vibration monitoring or are exploring the use of this groundbreaking technology in new applications. The system works right out of the box with minimal setup and no additional sensor packaging necessary. Once the system has been proven in the target application, the Starter Kit can be readily expanded using additional nodes with the same software and receiver. This low-risk access to wireless vibration monitoring is a key differentiator of the Smart Diagnostics solution. For customers who are familiar with vibration monitoring, the Starter Kit enables a quick and easy comparison to a legacy system. With a straightforward setup and installation, the user can assess whether wireless and/or energy harvesting are right for the intended application.

EACH KIT CONTAINS

- Three (3) wireless vibration sensor nodes
- One (1) primary receiver (PRN) node
- Vibration monitoring software
- Solar energy harvester (Deluxe Kit only)
- Thermal energy harvester (Deluxe Kit only)

The SmartDiagnostics® System





Primary Receiver Node Vibration Sensor Node

Dimensions	46mm x 25.5mm x 63.5 mm 1.81in x 1.00in x 2.50in	27.5mm x 27mm x 62mm 1.08in x 1.06in x 2.44in
Weight	150.8g (5.3 oz)	88.8g (3.1 oz)
Enclosure Material	Aluminum	Aluminum
Temperature Sensor Range	-	-40 to 80°C
Vibration Sensor Range	-	16G
Vibration Sensor Resolution	-	4 LSB
Frequency Range	-	0-1600Hz
Spectral Resolution	-	1888/# of samples

Industry Applications

- Industrial HVAC/R
- Oil & Gas
- Power Generation
- Pulp & Paper
- Water & Wastewater

Features & Benefits

- Easy software installation and setup
- No-hassle sensor installation and configuration
- Sensor hardware designed for industrial environments
- Real working energy harvesters with battery-like output

Vibration Monitoring Software

Computer Requirements	<ul style="list-style-type: none"> • PC with a 1.6GHz or faster processor • 1GB (32-bit) or 2GB (64-bit) RAM • 3GB available hard-drive space
Operating System Requirements	Windows XP Service Pack 3 or later (both 32- and 64-bit versions)

Energy Harvesters

	Thermal Harvester	Solar Harvester
Dimensions	49.9mm x 50.8mm x 48.5mm 1.96in x 2.00in x 1.91in	76.5mm x 56.1mm x 29.5mm 3.00in x 2.20in x 1.16in
RG-174 Coaxial Cables (Available)	18in (3ft)	18in (3ft)
Operating Temperature	-40 to 85°C	-40 to 85°C
Weight	182.8g (6.45oz)	146.8g (5.18oz)
Enclosure Material	Aluminum	Aluminum
Output Power	Variable	Variable
Output Voltage	Regulated 3.3V	Regulated 3.3V
Storage Capacitance	9.8mF	9.8mF
Minimum Environmental Input	15 °F	500 Lux



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