SMART diagnostics VIBRATION SENSOR NODE (SD-VSN-3)

The SMARTdiagnostics® family of innovative wireless sensor products enables cost-effective predictive maintenance for industrial equipment. The system provides continuous remote monitoring of key performance indicators to track the operating health of equipment.

- Optimized for long battery life
- Full time series data sets up to 5 times per minute
- Expandable to hundreds of nodes per system





RELIABLE MONITORING

Vibration Sensor Nodes provide health monitoring in the most hard-to-reach, rugged locations. Each node communicates via a direct wireless link to a Primary Receiver Node, from which the data is imported into SMARTdiagnostics® software for viewing and analysis.

FLEXIBLE CONFIGURATION

The system is highly configurable and scalable. A system can have hundreds of sensor points, each of which can be configured to transmit data on a user-selected frequency, and unique indicators can be implemented to warn users of potential machine health issues.

COST EFFECTIVE

Easily installed without the downtime, expense, and labor costs of old-fashioned, hard-wired sensors. Simply place the sensors where you need them and within minutes they'll transmit data. SMARTdiagnostics® can predict failure before it occurs, saving money spent on unnecessary replacements and extending machine life. At the same time, energy costs are reduced, as properly maintained machines are more efficient.

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Learn more at kcftech.com/hardware

VIBRATION SENSOR NODE **SPECIFICATIONS**

ent	
ent	
230 °F (110 °C) surface @ 72 °F (22 °C) ambient 212 °F (100 °C) surface @ 105 °F (40 °C) ambient 167 °F (75 °C) surface @ 167 °F (75 °C) ambient	
IP68, dust-tight and water-tight	
Survives 5-ft drop onto concrete surface	
Class I, Division 2, Groups A-D, T5 (model SD-VSN-3N)	
D-VSN-3N)	
ID #Z5ISD2	
range	
xtremely cold	
xtremely cold	
xtremely cold	
ble calibration	
ole calibration 192 Hz	
ole calibration 192 Hz	
ole calibration 192 Hz	

Ø1.89-2.06 .34 3.21 1.73 MOUNTS ON FLAT SURFACE OR MINIMUM otin 4" CYLINDER 1/4-28 INTERNAL MOUNTING THREAD INTERNAL MOUNTING MAGNET SAFETY WIRE HOLE

ACCELEROMETER SAMPLING

Sampling Frequency (Hz)	Sample Duration (s) Std. (batt. saver)	Spectral Resolution (Hz) Std. (batt. saver)
8192	0.5 (0.2)	2.0 (5.0)
4096	1.0 (0.4)	1.0 (2.5)
2048	2.0 (0.8)	0.5 (1.24)
1024	4.0 (1.6)	0.25 (0.62)
512	8.0 (3.2)	0.13 (0.31)
256	16.0 (6.4)	0.063 (0.16)
128	32.0 (13)	0.031 (0.08)
64	64.0 (26)	0.016 (0.04)

HANDLING AND CARE

Please consult KCF representative for proper use.

CONFIGURATIONS

Part Number Description SD-VSN-3 Standard vibration and temperature sensor SD-VSN-3N Class I, Division 2 Certified vibration sensor for use in hazardous locations (US and Canada ETL control number 4008627)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes Or Modifications Not Expressly Approved By The Party Responsible For Compliance Could Void The User's Authority To Operate The Equipment.

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