SIGFOX PIEZO-ELECTRIC 10KHZ VIBRATION SENSOR



SKU: WSSFC-V1A



WSSFC-V1A is a cost effective, Sigfox accelerometer singleaxis vibration sensor designed for condition monitoring and preventive maintenance applications. The piezo-electric accelerometer is available in ranges ±25g or 50g and features a flat frequency response up to >10kHz. Its accelerometer features a stable piezo-ceramic crystal in shear mode with low power electronics, sealed in a fully hermetic package. The Piezo Electric technology incorporated in the WSSCF-V1A accelerometer has a proven track record for offering the reliable and long-term stable output required for condition monitoring applications. The accelerometer is designed and qualified for machine health monitoring and has superior Resolution, Dynamic Range and Bandwidth to MEMS devices. Beside that it can also measure the temperature at mounting point. With Ultra-low power design and smart firmware allow the complete Wireless and Sensor package run on 2 x AA battery up to 10 years. It can support all regions of Sigfox network in over the World, RC1, RC2, RC3, RC4, RC5, RC6, RC7.

Typical Applications: Machine Health Monitoring, Predictive Maintenance Installations, Vibration Monitoring, Impact & Shock Monitoring, Bearing monitoring, ...

SIGFOX READY

Device are best operating performance on the SIGFOX network

10 YEAR BATTERY

Ultra-low power sensing technology from Daviteq with Ultralow power wireless technology allow the sensor can last up to 10 years with 2 x AA batteries 1.5VDC

10 KHZ BANDWITH

Wide bandwidth up to 10,000 Hz

HIGH PERFORMANCE PIEZO-ELECTRIC SENSOR

Hermetically Sealed, Piezo-Ceramic Crystal, Shear Mode accelerometer sensor is designed and qualified for machine health monitoring and has superior Resolution, Dynamic Range and Bandwidth to MEMS devices



DAVITEQ TECHNOLOGIES INC

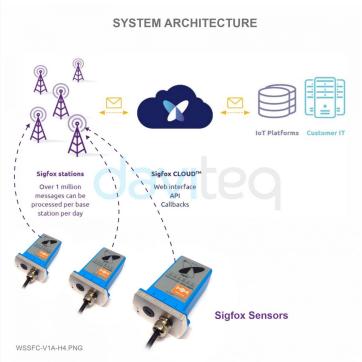
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SPECIFICATION

SENSOR SPECIFICATION:	
Sensor technology	Hermetically Sealed, Piezo-Ceramic Crystal, Shear Mode
8-Parameter Measurement	Acceleration RMS & Peak Velocity RMS & Peak Displacement RMS & Peak Frequency & Temperature
Acceleration Range & Shock Limit (g)	±25 or 50, 10,000
Frequency Response and Resonant (Hz)	2-10000, > 30000
Non-Linearity, Transverse Sensitivity	±2%FSO, < 5%
Temperature measuring and operating range, accuracy & resolution (°C)	-40 +85, +/- 0.5, 0.125
Sensor Material, rating and mounting	304SUS, IP67, M6 Screw
*Notes	All above values are typical at +24°C, 80Hz
Connector	M12-M 5-pin (Coding A) with 2m cable, wired to Sigfox node
SIGFOX SPECIFICATION:	
Sigfox zones	select RC2-RC3-RC4-RC5 or RC1-RC6-RC7
Antenna	Internal Antenna 2 dbi
Configuration	via offline USB cable (PC software is supplied at free) and via Downlink
Battery	02 x AA Type 1.5VDC, working time up to 10 years (depends on configuration) ** 7 years working with 30 minutes update, RC4, 1 x transmit
RF Module complies to	CE, FCC, ARIB
Working temperature	-40°C+60°C (using Energizer Lithium Ultimate AA battery)
Dimensions & Net-weight	H106xW73xD42, 190 grams
Housing	Aluminum+Polycarbonate, IP67
Mounting	Wall mount bracket





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WSSFC-V1A-H6.PNG





(Unit: mm)

DIMENSION DRAWING OF WIRELESS SENSOR





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ORDERING INFORMATION

ITEM CODE	DESCRIPTIONS
WSSFC-V1A-9-025	SIGFOX PIEZO-ELECTRIC 10KHZ VIBRATION SENSOR, +/- 25G, INTERNAL ANTENNA, TYPE AA BATTERY 1.5VDC, IP67, RC2-RC3-RC4-RC5 ZONES
WSSFC-V1A-8-025	SIGFOX PIEZO-ELECTRIC 10KHZ VIBRATION SENSOR, +/- 25G, INTERNAL ANTENNA, TYPE AA BATTERY 1.5VDC, IP67, RC1-RC6-RC7 ZONES

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