

Wireless Condition Monitoring IIoT Technology - Industry 4.0



Triaxial vibration and temperature sensor



Bluetooth 5.0 communication



Alerts via text message and email



Quick and easy to install



Low cost





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Zark Nano Vibration Sensor Type MEMS Triaxial technology Axis 1 or 3 axis (Controlled by Machine Dossier) Dynamic Range ±16 g Peak Vibration Sensor **Specifications** 5 Hz (300 cpm) to 2 KHz (120,000 cpm) ±3db Frequency Response 16-bit A/D Sensitivity 16Bit Vibration sensor A/D Vibration Sensor Calibration point 0.2 IPS (5mm/sec) RMS @100 Hz (600 cpm) Calibration ±0.02 IPS (±0.5mm) from 1 to 20 mm/sec rms @ 100 Hz (0.04 to Amplitude linearity **Specifications** 0.79 IPS rms @ 6000 cpm) Vibration measurements Acceleration: g or mm/s2; Velocity: in/s or mm/s type Vibration amplitude type RMS, True Peak, Calculated Peak Waveforms 2048 Data Points Functions of the Vibration Sensor Number of Resolution Lines 800, 1600, 3200 - default is 3200 (FFT) Fmax (Sampling rate) 6400 Hz, this is default Six (6) Frequency Bands with Independent Alarm Values Frequency bands Semiconductor Temperature sensor type -40°F to 257°F (-40 °C to 125°C) Temperature range **Temperature** 10mV/°C Sensor Sensitivity **Specifications** Accuracy ±3°C 0.5°C Linearity By Scheduled Time 1,2,3,4,6,12 Hours/1 Day Sensor Activation Immediate activation at the moment of detecting an increase in Measurement by detected Method the programmed variable, and this exceeds the programmed alert event values. Type Bluetooth Low Energy 5.0 / BLE 5.0 **Wireless** 100 meter sensor to access point (zark hub), line of sight. (The Communication actual range depends on the physical limitations and obstructions Wireless range present) Replaceable ½AA Size, 3.6V lithium-thionyl chloride Type **Battery and** 2-5 years or 4000± activations (may be less depending on the Power Life operating mode and configuration) Operating temperature -40 to 185°F (-40°C to 85°C) Environmental IP66 Enclosure - Protected against heavy seas or powerful jets of Ingress Protection water. (subject to approval) Weight 2.64 oz (75 gr) **Physical Dimensions** Height: 2.05" (52 mm) Diameter: 1.10" (28 mm) 14 - 28 UNF Female Mounting Gateway SHINKAWA Zark Hub X8 II via Bluetooth Low Energy 5.0 Communication Technology Intrinsic safety CSA Class 1 Division 2; ATEX/IECEx (subject to approval) Regulatory Compliance Compliant with all CSA and FCC/IC (subject to approval) Conformity

