ZARK
HUB

Nesting capacity up to 41 signals

Ability to operate vibration signals, temperature micro strain, process variables and RPM

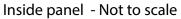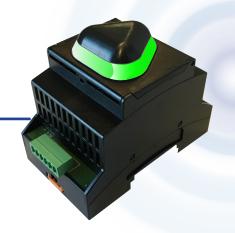**Communication for Wi-Fi, RJ45 and Bluetooth 5.0**

Alerts via text message and email

Low cost

Inside panel - Not to scale

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Zark Hub X8 II

Hardware Capacity	Max Sensor Count	Eight (8) Wired Sensors/Eight (8) Wireless Zark Nano Sensors, One (1) Speed
	Sensor Types	Accelerometer/Prox Probe/Temperature/Strain Sensor
		Process signals: (0-5VDC/1-5VDC/0-10VDC/1-10VDC and 4-20mA with added 249 ohm terminating resistors per channel on the 4-20mA inputs
	Frequency Range	2Hz (120 cpm) to 20KHz (1,200,000 cpm) ±3dB
	Bias Measurement	0 to +24 V or 0 to -24 V user selectable
Functions	Vibration Measurement Type	Acceleration: g or mm/s2 ; Velocity: in/s or mm/s
	Vibration Amplitude Type	RMS, True Peak, Calculated Peak
	Waveforms	With wired sensors: 8192 floating point data With wireless Zark Nano sensors: 2048 floating point data
	Number of Resolution Lines (FFT)	800, 1600, 3200 (default -3200)
	Fmax (Sampling rate)	1,500, 3,000, 5,000, 10,000, 18,300 (Default 3000)
	Frequency Bands	Six (6) Frequency Bands with Independent Alarms
	Other Measurement Types	Temp: ˚F (˚C), Frequency: Hz (CPM), Volt: V, Strain: με, Speed: RPM
	Alarming	Machine OFF, OK, WARNING and ALARM
Activation Method	By Scheduled Time	1,2,3,4,6,12 Hours/1 Day Interval changes based on Alarms to 1/2 interval.
	By Detected Event	Immediate activation when set alarm limits are exceeded
Communication	Wi-Fi / Wireless	Standard: IEEE 802.11b/g/n
		Frequency Band:2.4000~2.4840 GHz for Wi-Fi
		Certification: CE/FCC/IC/TELEC/SRRC//NCC
		Wireless Security: WPA/ WPA2 support for powerful encryption for and authentication AES in WLAN hardware for faster data encryption and IEEE 802.11i compatibility (For wireless module only)
		Transmit Power: Typ. 14 dBm ± 2 at 802.11b CCK Mode 1M Typ. 12 dBm ± 2 at 802.11g OFDM Mode 54M Typ. 12 dBm ± 2at 802.11n OFDM Mode MCS0
		Reception Sensitivity: -65 dBm
		RF Data Rate: Up to 65 Mbps
		Antenna connector: MHF4 connector
	Wired	RJ45 Ethernet
		Note: Cable via Ethernet maximum distance is 100 meters (for greater distances, fiber optics is recommended.)
	Wireless Range	Bluetooth 5.0 communication to the Zark Nano: Maximum of 100 meters with linear vision. (The actual range depends on the obstacles present)
Power	Power Supply Voltage	5.0 Vdc , 6 Amps
Environmental	Operating temperature	-4˚F to +140˚F (-20˚C to +60˚C)
	Operating humidity	5% ~ 95% Relative Humidity, non-condensing
Physical	Weight	12oz (340 gr)
	Dimension	ZARK X8 Housing: 54x71x90 2 1/8" x 2 13/16" x 3 35/64"
	Material	ZARK X8 Housing: Polycarbonate
	Mounting	DIN Rail
Software	SHINKAWA/Rockwell Automation	Machine Dossier/Emonitor