ZARK X8

No of Channels	8
Sensor Types	IEPE Accelerometer
IEPE Sensor Sensitivity	10, 30, 50, 100, 250, 500 mV/g
ICP Interface	4 mA at 24 Vdc
Bias Measurement	0 to +24 V or 0 to -24 V user selectable
Gain Ranges	1, 11, 101, 201
Anti-Alias Filtering	Stage 1: 50,000 (24 dB/octave with Butterworth slope) Hz Stage 2: 160,000 Hz Digital: TBD

Vibration Analysis (Overall)

Types	Acceleration / Velocity
Engineering Units	Acceleration: g or mm/s2 Velocity: in/s or mm/s
Detection Types	RMS, True Peak, Calculated Peak
Alarming	Four user-configurable vibration levels: 1. Machine OFF 2. OK 3. Warning 4. Alarm

Vibration Analysis (Frequency)

Types	Acceleration / Velocity
Engineering Units	Acceleration: g or mm/s2 Velocity: in/s or mm/s
Resoution	800 lines
Bands	Six (6) frequency band energy measurements

Measurements

Measurements	Acceleration g / mm/s2 Velocity in/s mm/s
Digitizing	Multiplexed 24-bit differential analog-to-digital converter
Max Sampling Rate	216,000 Samples/second
Bandwidth Range	2-1000 to 1000-20000 Hz

Communications

Wireless Specifications	Wi-Fi / Wireless
Standard	IEEE 802.11 b/g
Certification	FCC / CE / IC/TELEC
Wireless Security	Open, WPA2-PSK, WPA2-Enterprise
Transmission Rate	1-11 Mbps for 802.11b 6-54 Mbps for 802.11g
Reception Sensitivity	-65 dBm
Output Level	+12 dB
Channels	1-11 with 5 MHz intervals
Application Protocol	Packet based proprietary protocol
Encryption	AES-256 with strong 384-bit ECC key generation
Integrity and Ubiquity	Protected with multilevel Signature Hash Algorithm

Power

Power Types	External rechargeable battery pack +5 V DC, auxillary power supply
Battery	5700 mA/h Lithium Ion
Battery Protection	Temperature protection shutdown 158 °F (70 °C)

Physical

Dimensions	ZARK X8 Housing: 2 $^1/_8$" x 2 $^7/_{16}$" x 3 $^{35}/_{64}$" (54 x 62 x 90 mm) Termination Panel Housing: 3 $^{15}/_{64}$" x 2 $^1/_8$" x 3 $^5/_8$" (82 x 52 x 92 mm) Battery Box Housing: 2 $^3/_{64}$" x 2 $^{61}/_{64}$" x 4 $^{21}/_{64}$" (52 x 75 x 110 mm)
Material	ZARK X8 Housing: Polycarbonate Termination Panel Housing: Polycarbonate Battery Box Housing: Polycarbonate
Mounting	DIN Rail
Connector	
Misalignment Protection	

Environmental

Operating temperature	-4 °F to +140 °F (-20 °C to +60 °C)
Opearting temperature when battery charging	32 °F to +113 °F (0 °C to +45 °C)
Water resistance	