



MASTERS OF MACHINE HEALTH

PHANTOM<sup>®</sup>

**M** **A** **X**





Up to 1 Km  
LoS communication



20x more  
battery capacity



102,400  
Lines of Resolution

The **next generation** vibration sensor from **ERBESSD INSTRUMENTS®**, designed to push the boundaries of **precision monitoring**.



**PHANTOM® MAX**  
(EPH-V80 / EPH-V81)

### MEASUREMENT

	V80 - HIGH SENSIVITY		V81 - HIGH RANGE	
Product code	EPH-MAX			
Built-in sensor	Low noise MEMS sensor			
Sensing resolution (x, y, z)	460 µg			
Frequency range	0.0 Hz to 4 kHz		0.0 Hz to 8 kHz	
Dynamic range (configurable)	±4 /±8 /±16 g		±15 /±30 /±60 g	
Recording time (s) 3 axes	8	16	8	16
Recording time (s) 1 axes	16	32	16	32
Sample rate (Hz)	32,000	16,000	32,000	16,000
Resolution lines	Triaxial - 102,400 Single Axis - 204,800			
Spectral noise (x, y)	20 µg/√Hz		44 µg/√Hz	
Spectral noise (z)	27 µg/√Hz		55 µg/√Hz	

### CONNECTIVITY AND SOFTWARE

Wireless protocol	Bluetooth BLE 5.0
Operating frequency	2.4 GHz
Transmission power	Up to ± 29 dBm
Signal strenght range	-90 dBm to -30 dBm
Devices compatibility	iOS and Android devices (WiSER®Vibe & PHANTOM® Manager) and PHANTOM® Gateway
Software compatibility	DigivibeMX® 11 M30 & PHANTOM® Version / PHANTOM® Manager and WiSER®VIBE
Operating distance	1 Km Line sight*

\*Ideal envioment. No competing signals or obstructions.



**DIMENSIONS AND FIXTURE**

Dimensions (h x w)	95.62 x 53 mm
Protection grade	IP67
Weight	TBA
Fixture	Fastener 1/4-28 UNF
Housing material	Anodized aluminum

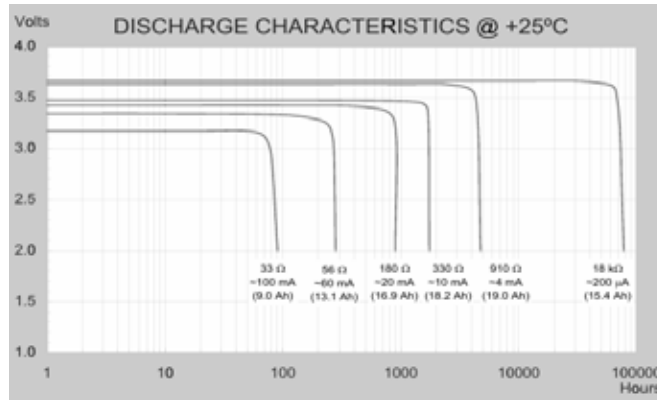
**ENVIRONMENTAL CONDITIONS**

Operating temperature	-55 °C to 85 °C (-67 °F to 284 °F)
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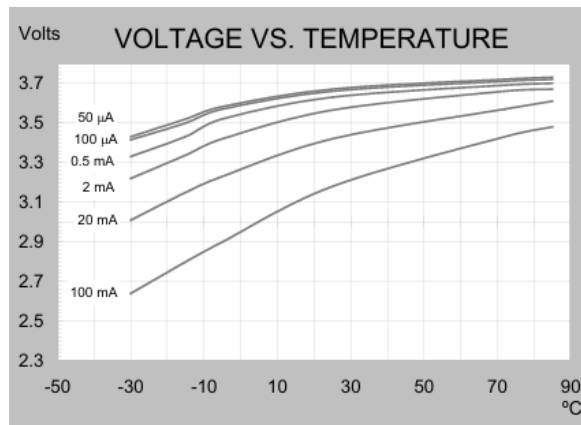
**POWER SUPPLY**

Battery type	Lithium battery type D
Battery life	TBA
	Standby mode if Gateway not detected
	TBA

**BATTERY DISCHARGE CHARACTERISTICS**



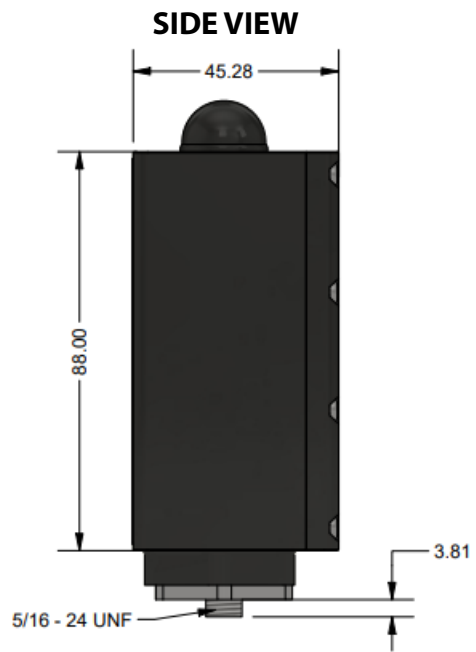
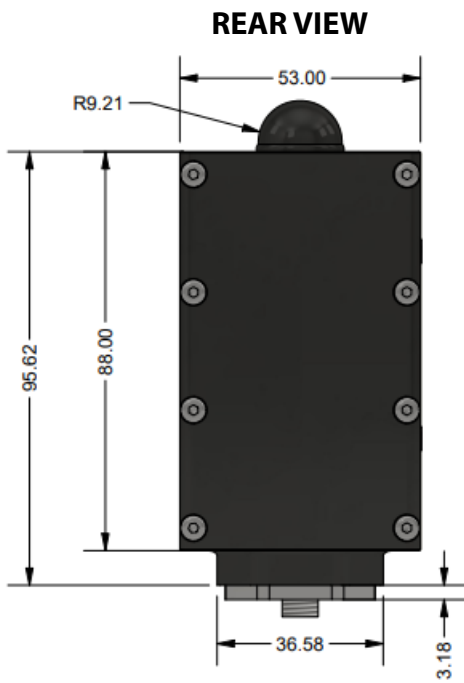
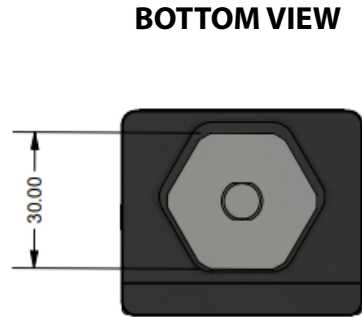
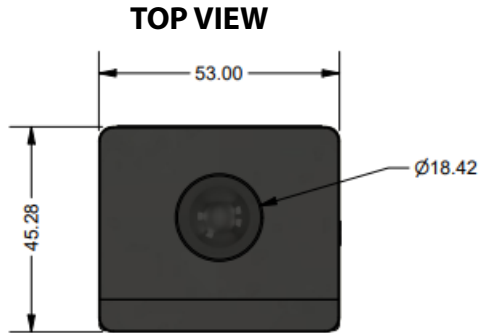
**BATTERY VOLTAGE CONSUMPTION VS TEMPERATURE**



\*Battery life is directly affected by temperature, frequency of alarms, and other factors independent of user settings.



**DIMENSIONS (mm)**





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ALL IMAGES ARE FOR ILLUSTRATIVE PURPOSES ONLY. THE PRODUCT MAY VARY  
DEPENDING ON THE VERSION AND/OR UPDATES MADE TO THE DEVICES.

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