

# PHANTOM®

EXPERT GEN 4 | TRIAXIAL VIBRATION SENSOR



**HIGH RANGE**  
(EPH-V83)**Frequency Range:**  
0.0 Hz - 8 kHz**Data Receiving Interval:**  
Captures data as often as  
every minute  
*(configurable)***Dynamic Range:**  
 $\pm 15 / \pm 30 / \pm 60$  g**Equivalent Sensitivity:**  
100 mV/G**MEASUREMENT**

Product code	EPH-V83	
Built-in sensor	Low noise MEMS sensor	
Sensing resolution (X, Y, Z)	460 $\mu$ g	
Frequency range	0.0 Hz to 8 kHz	
Dynamic range (configurable)	$\pm 15 / \pm 30 / \pm 60$ g	
Recording time (s) 3 axes	1	2
Recording time (s) 1 axes	3	6
Sample rate (Hz)	32,000	16,000
Max frequency	8Khz	8Khz
Resolution lines	Triaxial - 12,800 Single Axis - 25,600	
Spectral noise (x,y)	44 $\mu$ g/ $\sqrt$ Hz	
Spectral noise (z)	55 $\mu$ g/ $\sqrt$ Hz	

**CONNECTIVITY AND SOFTWARE**

Wireless protocol	Bluetooth BLE 5.0	
Operating frequency	2.4 GHz	
Transmission power	$\pm 8$ dBm	
Signal strenght range	-90 dBm to -30 dBm	
Power output range	-4 dBm to +8 dBm <i>(configurable)</i>	
Devices compatibility	iOS and Android devices ( <i>WiSER®Vibe &amp; PHANTOM® Manager</i> ) and PHANTOM® Gateway	
Software compatibility	DigivibeMX® 11 M30 & PHANTOM® Version / PHANTOM® Manager and WiSER®VIBE	
Operating distance	100 m Line sight*	

**DIMENSIONS AND FIXTURE**

Dimensions (h x w)	47 x 33 mm	
Protection grade	IP69	
Weight	185 grams	
Fixture	Fastener 1/4-28 UNF	
Housing material	ABS, stainless steel	

**ENVIRONMENTAL CONDITIONS**

Operating temperature	-40 °C to 80 °C (40 °F to 176 °F)	
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\*Ideal enviroment. No competing signals or obstructions.



### CERTIFICATIONS

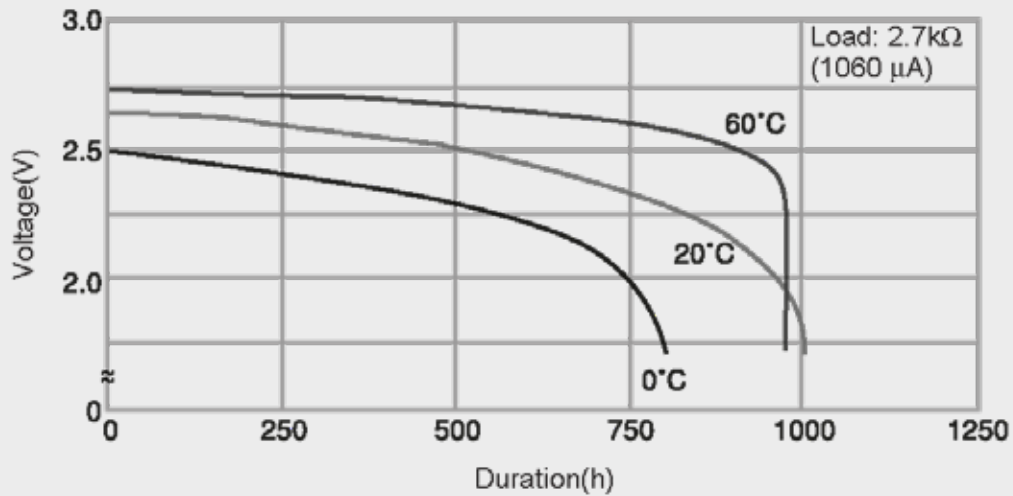
ATEX Certification	Class I, Zone 2, AEx ic IIC T5 Gc. Zone 22, AEx ic IIIC T85°C Dc
	Ex ic IIC T5 Gc. Ex ic IIIC T85°C Dc
	Certificate No.: IECEx ETL 24.0020X

### BATTERY INFORMATION

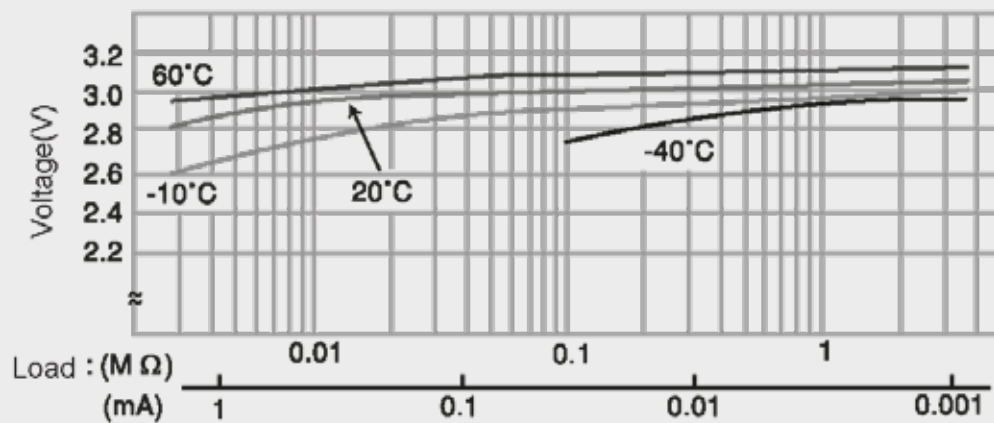
#### POWER SUPPLY

Battery type	Lithium battery (CR2477)
Battery life	65,000 measurements (duration depends on user configuration)*
	Standby mode if Gateway not detected
	Consumption of 6-9 $\mu$ A in Standby mode

### DISCHARGE CHARACTERISTICS



### VOLTAGE VS. TEMPERATURE



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

**HIGH SENSITIVITY**  
(EPH-V82)**Frequency Range:**  
0.0 Hz - 4 kHz**Data Receiving Interval:**  
Captures data as often as every minute  
*(configurable)***Dynamic Range:**  
 $\pm 4 / \pm 8 / \pm 16$  g**Equivalent Sensitivity:**  
500 mV/G**MEASUREMENT**

Product code	EPH-V82	
Built-in sensor	Low noise MEMS sensor	
Sensing resolution (X, Y, Z)	460 $\mu$ g	
Frequency range	0.0 Hz to 4 kHz	
Dynamic range (configurable)	$\pm 4 / \pm 8 / \pm 16$ g	
Recording time (s) 3 axes	1	2
Recording time (s) 1 axes	3	6
Sample rate (Hz)	32,000	16,000
Max frequency	4Khz	4Khz
Resolution lines	Triaxial - 12,800 Single Axis - 25,600	
Spectral noise (x,y)	20 $\mu$ g/ $\sqrt$ Hz	
Spectral noise (z)	27 $\mu$ g/ $\sqrt$ Hz	

**CONNECTIVITY AND SOFTWARE**

Wireless protocol	Bluetooth BLE 5.0	
Operating frequency	2.4 GHz	
Transmission power	$\pm 8$ dBm	
Signal strenght range	-90 dBm to -30 dBm	
Power output range	-4 dBm to +8 dBm <i>(configurable)</i>	
Devices compatibility	iOS and Android devices ( <i>WiSER®Vibe &amp; PHANTOM® Manager</i> ) and PHANTOM® Gateway	
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Operating distance	100 m Line sight*	

**DIMENSIONS AND FIXTURE**

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Weight	185 grams	
Fixture	Fastener 1/4-28 UNF	
Housing material	ABS, stainless steel	

**ENVIRONMENTAL CONDITIONS**

Operating temperature	-40 °C to 80 °C (40 °F to 176 °F)	
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### CERTIFICATIONS

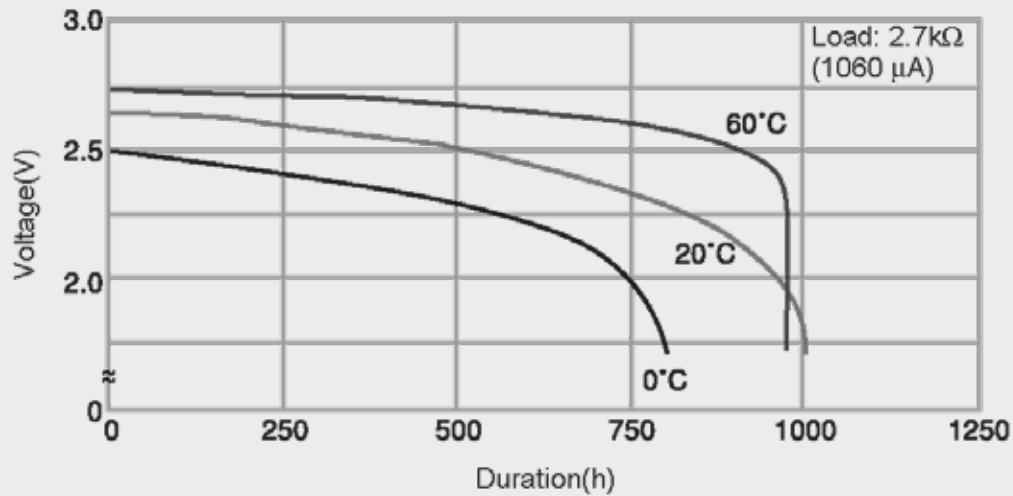
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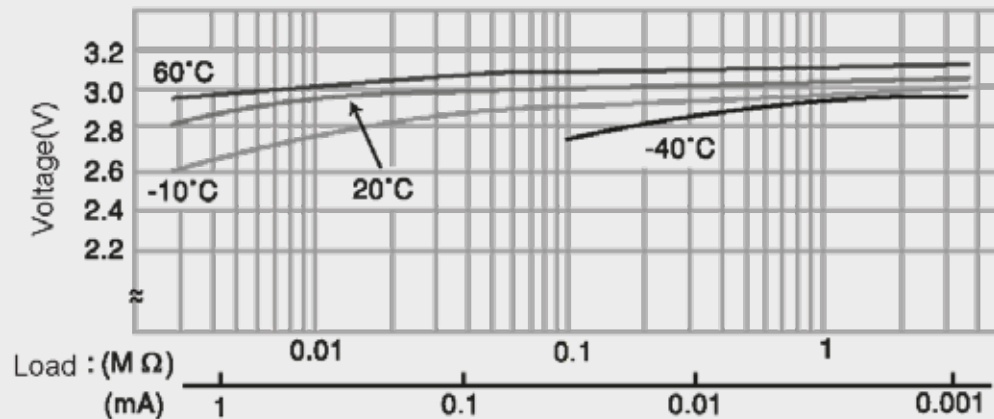
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### DISCHARGE CHARACTERISTICS



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**MASTERS OF MACHINE HEALTH**

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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