

MASTERS OF MACHINE HEALTH

GEN 3 | VIBRATION SENSOR













Operating temperature

HIGH RANGE (EPH-V11E)

Frequency Range:

0.5 Hz - 10 kHz [x,y] 0.5 Hz - 5.1 kHz [z]

Dynamic Range: ±8/±16/±32 g

Data Receiving Interval:

Captures data as often as every minute

(configurable)

Sensitivity:

100 mV/G

		MEASUREME	NT		
Product code	EPH-V11E				
Built-in sensor	MEMS Sensor				
Sensing resolution (X, Y, Z)	240 μg				
Frequency range (@ 25,600)	0.5 Hz to 10 kHz (X,Y), 0.5 Hz to 5.1 kHz (Z)				
Dynamic range (configurable)	±8 /±16 /±32 g				
Recording time (s) 3 axes	1	2	4	8	16
Recording time (s) 1 axes	3	6	12	24	48
Sample rate (Hz)	25,600	12,800	6,400	3,200	1,600
Max frequency (Hz) [x,y]	10,000	5,000	2,500	1,250	625
Max frequency (Hz) [z]	5,100	5,000	2,500	1,250	625
Resolution lines	Triaxial - 12,800 Single Axis - 25,600				
Spectral noise (10 Hz)	630 μg√Hz				
CONNECTIVITY AND SOFTWARE					
Wireless protocol	Bluetooth BLE 5.0				
Operating frequency	2.4 GHz				
Transmission power	±8 dBm				
Signal strength range	-90 dBm to -30 dBm				
Power output range	-4 dBm to +8 dBm (configurable)				
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	100m Line of sight*				
DIMENSIONS AND FIXTURE					
Dimensions (h x w)	47mm x 33mm	NSIONS AND I	TATORE		
Protection grade	1P69				
Weight	185 grams				
Fixture	Fastener 1/4-28 UNF				
Housing material	ABS, stainless steel				
	ADS, Statilless Steet				

ENVIRONMENTAL CONDITIONS

-40 °C to 80 °C (40 °F to 176 °F)

^{*}Ideal enviroment. No competing signals or obstructions.





HIGH SENSITIVITY (EPH-V10E)

Frequency Range:

0.5 Hz - 4 kHz [x,y] 0.5 Hz - 1.8 kHz [z]

Dynamic Range:

±2/±4/±8 g

Data Receiving Interval:

Captures data as often as every minute

(configurable)

Sensitivity: 100 mV/G

MEASUREMENT					
Product code	EPH-V10E				
Built-in sensor	MEMS Sensor				
Sensing resolution (X, Y, Z)	60 μg				
Frequency range (@ 25,600)	0.5 Hz to 4 kHz (X,Y), 0.5 Hz to 1.8 kHz (Z)				
Dynamic range (configurable)	±2 /±4 /±8 g				
Recording time (s) 3 axes	1	2	4	8	16
Recording time (s) 1 axes	3	6	12	24	48
Sample rate (Hz)	25,600	12,800	6,400	3,200	1,600
Max frequency (Hz) [x,y]	4,000	4,000	2,500	1,250	625
Max frequency (Hz) [z]	1,800	1,800	1,800	1,250	625
Resolution lines	Triaxial - 12,800 Single Axis - 25,600				
Spectral noise (10 Hz)	130 μg√Hz				

CONNECTIVITY AND SOFTWARE				
Wireless protocol	Bluetooth BLE 5.0			
Operating frequency	2.4 GHz			
Transmission power	±8 dBm			
Signal strength range	-90 dBm to -30 dBm			
Power output range	-4 dBm to +8 dBm (configurable)			
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	100m Line of sight*			

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

ENVIRONM	MENTAL CON	NDITIONS

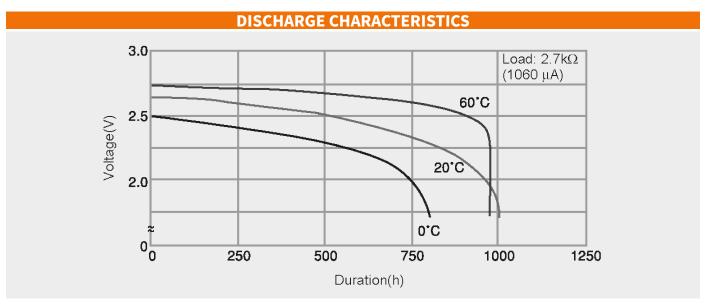
Operating temperature -40 °C to 80 °C (40 °F to 176 °F)

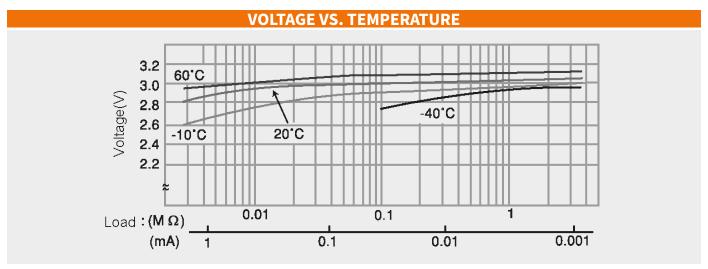
^{*}Ideal enviroment. No competing signals or obstructions.



BATTERY INFORMATION

POWER SUPPLY		
Battery type	Lithium battery (CR2477)	
Battery life	65,000 measurements (duration depends on user configuration)*	
	Standby mode if a gateway is not detected	
	Consumption of 6-9 μA in Standby mode	

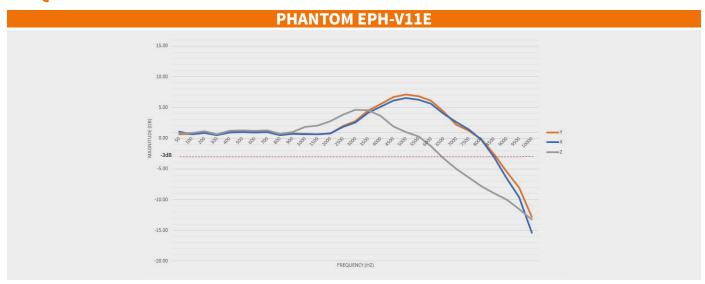


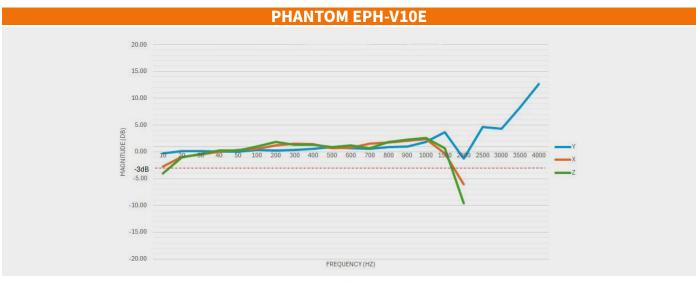


^{*}Battery life is directly affected by temperature, frequency of alarms, and other factors independent of user settings.



FREQUENCY RESPONSE





DIMENSIONS

