



MASTERS OF MACHINE HEALTH

PHANTOM[®]

ATEX | VIBRATION SENSOR



PHANTOM ATEX, the best wireless continuous monitoring system worldwide with **the best battery in the market**.

The triaxial vibration sensor is able to send **3 simultaneous** FFT and time waveform recordings at once.

PHANTOM ATEX has a Class II certification for explosive atmospheres consisting of substances in the form of gas and air particles.

PHANTOM ATEX **HIGH SENSITIVITY** (EPH-ATX15)

MEASUREMENT					
Frequency range	4 kHz (x,y) 1.8 kHz (z)				
Sensor	Internal temperature				
Sensor	MEMS triaxial accelerometer				
Range	- 40 °C to + 85 °C				
Spectral noise	130 µg/√Hz				
Dynamic range	2G / 4G / 8G				
Data receiving interval	10min / Configurable				
Resolution lines	6,400				
Sensitivity	100mV/G				
Recording time (s) 1 axes	1	2	4	8	16
Sample rate (Hz)	25,600	12,800	6,400	3,200	1,600
Max frequency (Hz) [x,y]	4,000	2,000	1,000	500	250

PHANTOM ATEX **HIGH RANGE** (EPH-ATX16)

MEASUREMENT					
Frequency range	10 kHz (x,y) 5.1 kHz (z)				
Sensor	Internal temperature				
Sensor	MEMS triaxial accelerometer				
Range	- 40 °C to + 85 °C				
Spectral noise	630 µg/√Hz				
Dynamic range	8G / 16G / 32G				
Data receiving interval	10min / Configurable				
Resolution lines	6,400				
Sensitivity	100mV/G				
Recording time (s) 1 axes	1	2	4	8	16
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	250

**CONNECTIVITY AND SOFTWARE**

Wireless protocol	Bluetooth BLE 5.0 / Modbus via Gateway
Software compatibility	DigivibeMX PHANTOM Version / WiSER Vibe Firmware Updates via PHANTOM Manager (<i>iOS & Android</i>)
Signal strength range	-90dBm to -30dBm
Wireless range	100m Line of sight
Power output range	-4dBm to +8dBm (<i>Configurable</i>)
Operating frequency	2.4GHz

DIMENSIONS

Dimensions	48mm x 34mm
Weight	177 gr
Material	ABS / Stainless steel
ATEX Certification	Gas: Ex ic IIC T6 Gc X Dust: Ex ic III Dc X
Base temperature range	-40 °C to +80 °C (<i>-40 °F to +176 °F</i>)

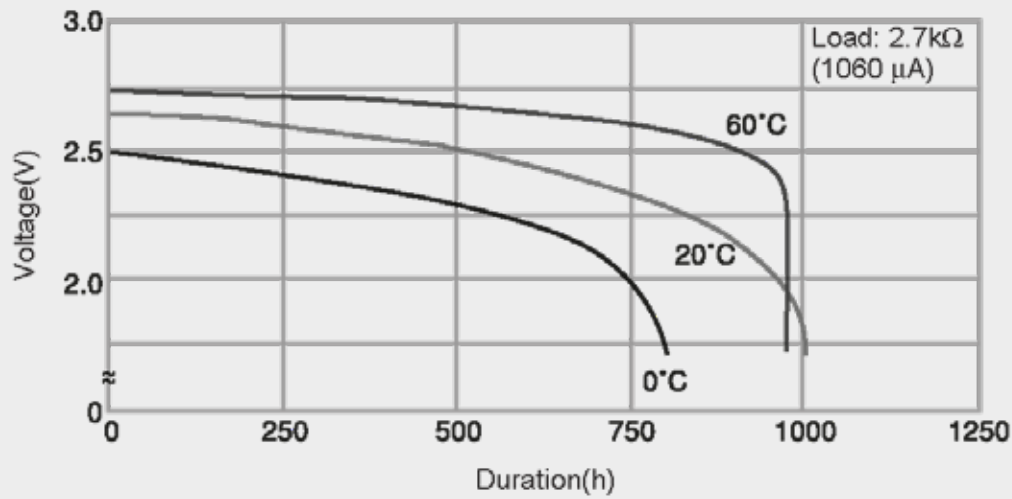


BATTERY INFORMATION

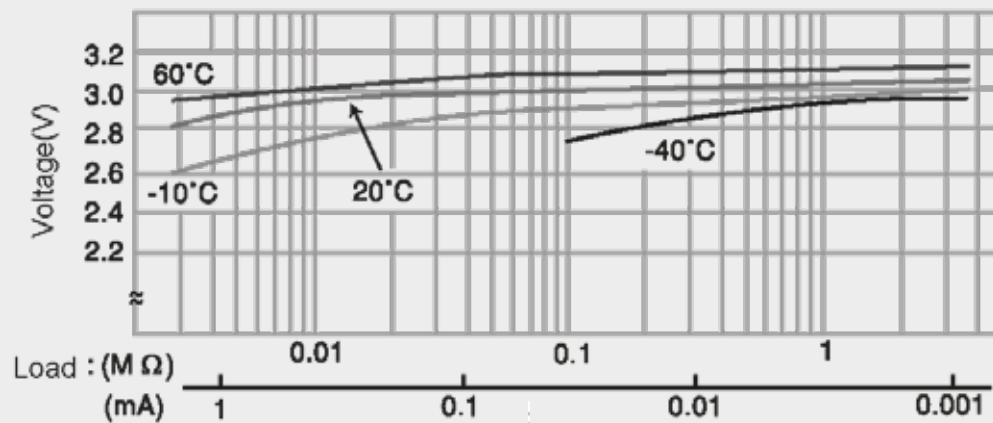
POWER SUPPLY

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

DISCHARGE CHARACTERISTICS



VOLTAGE VS. TEMPERATURE



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