PHANTOM

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.

TECHNICAL SPECIFICATIONS

You can **find Phantom ATEX** in it's **High Sensitivity** version (EPH-ATX15) or in it's **High Range** version (EPH-ATX16). Just as the **Phantom Expert**.

MEASUREMENT

Part Number: **EPH-ATX15**					**Sensor:** Internal Temperature	**Sensor:** MEMS triaxial accelerometer	**Dynamic Range:** 2G / 4G / 8G

Frequency Range:
4 kHz (x,y)
1.8 kHz (z)

Range: - 40 °C to + 85 °C

Spectral Noise: 130 μg/√Hz

Data Receiving Interval: 10min / Configurable

Resolution Lines: 6400

Recording Time(s):	1	2	4	8	16
Sample Rate (Hz):	25600	12800	6400	3200	1600
Max Frequency (Hz):	4000	2000	1000	500	250

Sensitivity: 100mV/G

MEASUREMENT

Part Number: **EPH-ATX16**					**Sensor:** Internal Temperature	**Sensor:** MEMS triaxial accelerometer	**Dynamic Range:** 8G / 16G / 32G

Frequency Range:
10 kHz (x,y)
5.1 kHz (z)

Range: - 40 °C to + 85 °C

Spectral Noise: 630 μg/√Hz

Data Receiving Intergal: 10min / Configurable

Resolution Lines: 6400

Recording Time (s):	1	2	4	8	16
Sample Rate (Hz):	25600	12800	6400	3200	1600
Max Frequency (Hz):	10000	5000	2500	1250	625

Sensitivity: 100mV/G

POWER SUPPLY

Battery Lifetime:
65,000 measurements
(duration depends on user configuration)*

Main Power Supply:
Lithium battery (CR2477) -
Non Changeable

CONNECTIVITY AND SOFTWARE

Wireless Protocol:
Bluetooth BLE 5.0 / Modbus via Gateway

Software Compatibility:
DigivibeMX Phantom Version
/ WiSER Vibe
Firmware Updates via
Phantom Manager (iOS & Android)

Signal Strenght Range:
-90dBm to -30dBm

Wireless Range:
100m line sight

Power Output Range:
-4dBm to +8dBm
(Configurable)

Operating Frequency:
2.4GHz

DIMENSIONS

Dimensions:
48mm x 34mm

Material:
ABS / Stainless Steel

Weight:
177 gr

ATEX Certification:
Gas: Ex ic IIC T6 Gc X
Dust: Ex ic III Dc X

Base Temperature Range:
-40 to +80 °C
(-40 to +176 °F)

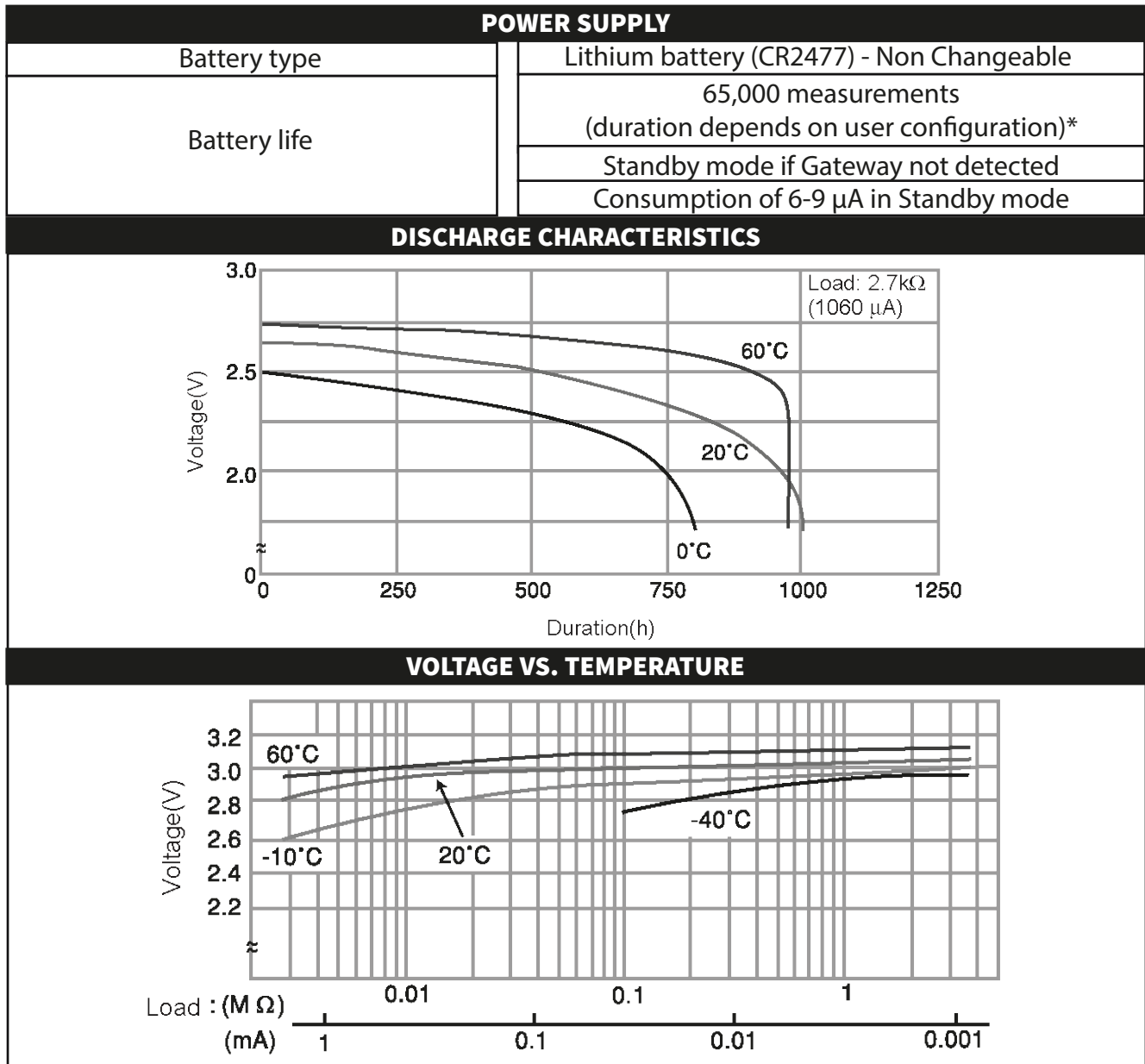Analize and visualize the data of your sensors with **DigivibeMX®**

Access to your information in an easy way trough your browser or with DigivibeMX.

EI ANALYTIC

Phantom sensors are compatible with communication protocol

Modbus

BATTERY INFORMATION

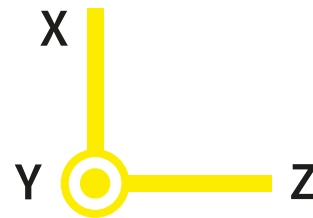| POWER SUPPLY	
Battery type	Lithium battery (CR2477) - Non Changeable
Battery life	65,000 measurements (duration depends on user configuration)*
	Standby mode if Gateway not detected
	Consumption of 6-9 µA in Standby mode

DISCHARGE CHARACTERISTICS

VOLTAGE VS. TEMPERATURE

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

QUICK GUIDE

Place your sensor the right way!

Use the symbol on the top of the Phantom to locate the axis in the right position.

Once that you've placed the sensor on your machine, set it up on Digivibe and define each axis to an orientation: Horizontal, Vertical and Axial.

ACCESORIES

The Phantom vibration sensor has everything you need to start collecting data without the need of additional accesories.

Add it to your measurement point trough DigivibeMX and you will be ready to monitor your machines.

It's smart design allows you to place it anywhere you want using the right tools.

Just worry about where to place the sensor. We have the magnetic base perfect for the job.

MEET THE PHANTOM FAMILY

Phantom RPM

With the RPM sensor you can easily analyze the revolutions per minute of any rotor, turbine or vent with incredible precision with a switching speed of 600kRPM.

Phantom Termocouple & Phantom Infrared

Have a better control of your machines' temperature. You can connect up to 3 thermocouple sensors or acquire the **infrared** temperature sensor so you can monitor with extreme precision.

Phantom Current

The Phantom current module allows you to measure up to 4 amperage channels with clamps that start with 50 amp and go to 500 amp.

Phantom GP

General Purpose modules that are compatibe with any kind of sensor to obtain wireless data. Available for **4-20mA**, **0-10V**, **Digital Signals** and **2.2Vpp** sensors.

Phantom All in One

Obtain the reliability of three sensors in only one Phantom module; vibration, temperature and current. Complete condition monitoring all in one.

Coming soon...

Phantom Thermographic Camera

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