PHANTOM

Vibration Sensor

PHANTOM ATEX unmatched protection, reliability, security, and machine health analytics for your dangerous areas.

PHANTOM ATEX is capable of 3 simultaneous time waveform recordings for quick and convenient analysis of machine health.

Phantom ATEX has a Class II certification for explosive atmospheres consisting of gas and dust 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 — HIGH RANGE

Part Number: EPH-ATX16

Sensor: MEMS triaxial accelerometer

Dynamic Range: ±8/ ±16/ ±32 g

Data Receiving Interval: (Configurable) Min: 720 min Max: 1440 min

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

Spectral Noise: 630 µg/√Hz

Resolution Lines: 6400

Recording Time (s):	1	2	4	8	16	**Fixture:**
Sample Rate (Hz):	25600	12800	6400	3200	1600	Fastener
Max Frequency (Hz) [x,y]:	10000	5000	2500	1250	625	1/4 - 28
Max Frequency (Hz) [z]:	5100	5000	2500	1250	625	UNF

MEASUREMENT — HIGH SENSITIVITY

Part Number: EPH-ATX15

Sensor: MEMS triaxial accelerometer

Dynamic Range: ±2/ ±4/ ±8 g

Data Receiving Interval: (Configurable) Min: 720 min Max: 1440 min

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

Spectral Noise: 130 µg/√Hz

Resolution Lines: 6400

Recording Time (s):	1	2	4	8	16	**Fixture:**
Sample Rate (Hz):	25600	12800	6400	3200	1600	Fastener
Max Frequency (Hz) [x,y]:	4000	4000	2500	1250	625	1/4 - 28
Max Frequency (Hz) [z]:	1800	1800	1800	1250	625	UNF

ERBESSD INSTRUMENTS®   **PHANTOM ATEX | VIBRATION SENSOR**

POWER SUPPLY

Battery Lifetime:
65,000 measurements
Standby mode if Gateway not detected

Main Power Supply:
Lithium battery CR2477 3V
(Not replaceable)

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) &
Optional EI Analytic Subscription

Signal Strength Range:
-90dBm to -30dBm

Wireless Range:
100m line of 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:
-7 to 60 °C
(20 to 140 °F)

Analyze and visualize the data of your sensors with:

Access to your machine health information easily through your browser, mobile App, DigivibeMX, or utilize one of our many open architecture tools.
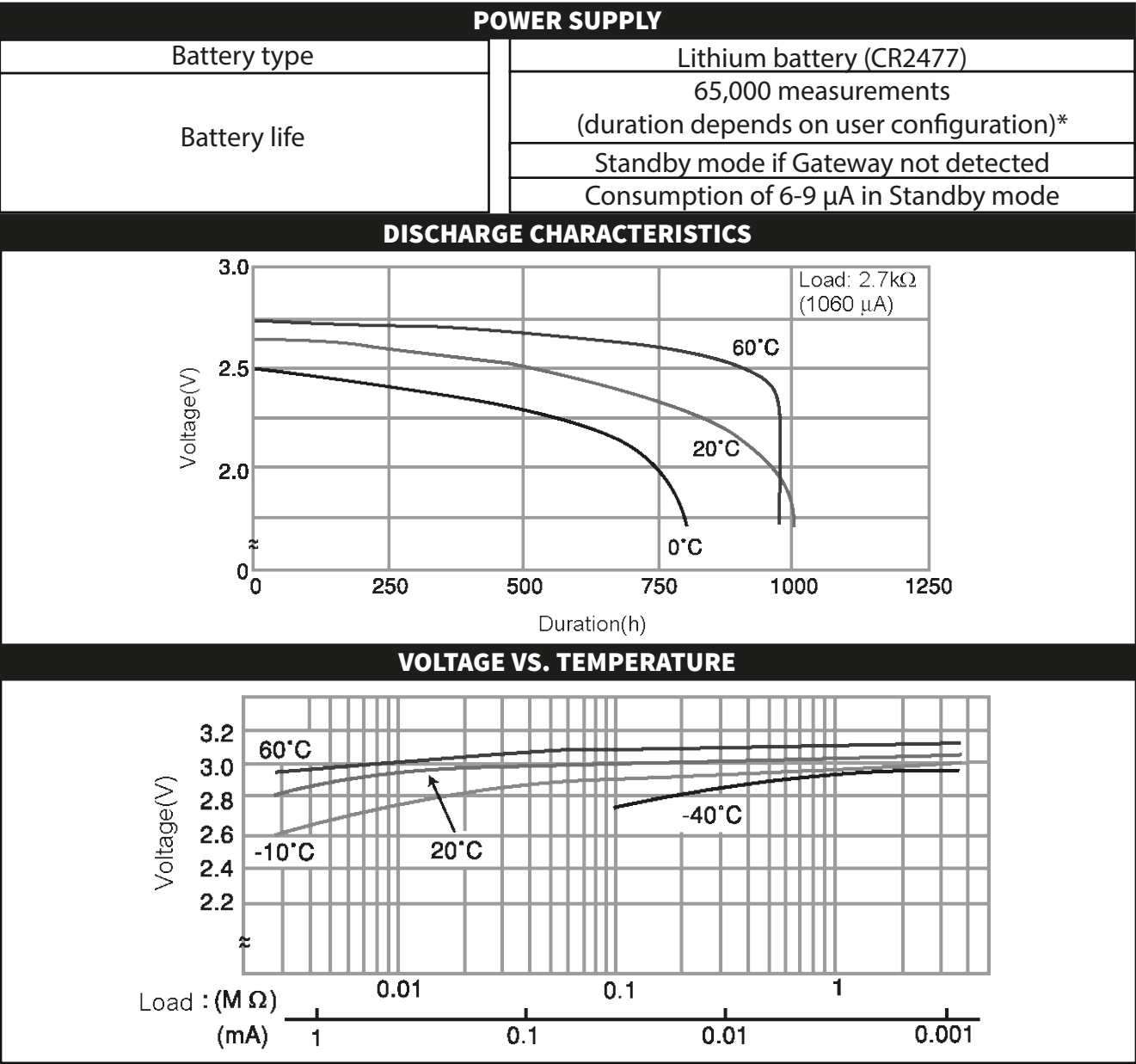
DigivibeMX®

EI ANALYTIC

Modbus

(using Gateway 2.0)

MQTT **OPC UA**

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BATTERY INFORMATION

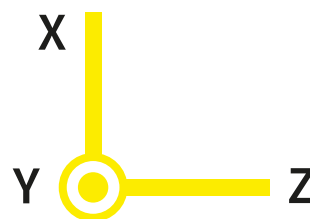| POWER SUPPLY	
Battery type	Lithium battery (CR2477)
Battery life	65,000 measurements (duration depends on user configuration)*
	Standby mode if Gateway not detected
	Consumption of 6-9 µA in Standby mode

DISCHARGE CHARACTERISTICS

VOLTAGE VS. TEMPERATURE

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

QUICK GUIDE

Orient the dominant axis easily!

Use the symbol on the top of the Phantom to locate the dominant axis as it relates to your machine and sensor.

Once you've placed the sensor on your machine, configure it in Digivibe, WiSER Vibe Pro, or EI Analytic and assign each axis as appropriate.

ACCESSORIES

The Phantom vibration sensor has everything you need to start collecting data.

Easy orientation of the sensors dominant axis can be achieved with the optional, adjustable mounting pad.

CERTIFICATIONS

CE

RoHS COMPLIANT

REACH COMPLIANCE

CONTAINS FCC ID: X8WBT840F

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.

Phantom Thermal Camera

With the Phantom thermal camera you can take infrared images of surfaces or objects at a distance of no more than 1m. Use DigivibeMX to create trends at different points of these captures.

ERBESSD INSTRUMENTS®

WORLDWIDE toll-free:
+1-877-223-4606

ENGLISH:
Sales, Service & Support Engineer
+1-518-874-2700
info@erbessdreliability.com

SPANISH & FRENCH:
Sales, Service & Support Engineer
+52 (55) 6280-7654
info@erbessd-instruments.com

BUY ONLINE
www.erbessd-instruments.com