PHANTOM

Vibration Sensor

PHANTOM ATEX, the best wireless triaxial vibration and temperature sensor worldwide.

With our triaxial vibration sensor you can get **3 simultaneous** FFT and Time waveform recording 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 — HIGH RANGE

Part Number: **EPH-ATX16**

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

Sensor: MEMS triaxial accelerometer

Spectral Noise: 630 µg/√Hz

Dynamic Range: ±8/ ±16/±32 g

Resolution Lines: 6400

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

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

MEASUREMENT — HIGH SENSITIVITY

Part Number: **EPH-ATX15**

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

Sensor: MEMS triaxial accelerometer

Spectral Noise: 130 µg/√Hz

Dynamic Range: ±2/±4/±8 g

Resolution Lines: 6400

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

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

POWER SUPPLY

Battery Lifetime:
12,000 measurements
Standby mode if Gateway not detected

Main Power Supply:
Lithium battery CR2032 3 V
(Not replaceable)

CONNECTIVITY AND SOFTWARE

Wireless Protocol:
Bluetooth BLE 5.0 /
Modbus via Gateway

Signal Strenght Range:
-90 dBm to -30 dBm

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

Contains FCC ID:
X8WBT840

Wireless Range:
100 m line sight

Operating Frequency:
2.4 GHz

DIMENSIONS

Dimensions:
48 mm x 34 mm

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)

Material:
ABS / Stainless Steel

Analize and visualize the health of your machines with **DigivibeMX®**

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

EI ANALYTIC

Phantom sensors are compatible with communication protocols: (using Gateway 2.0)

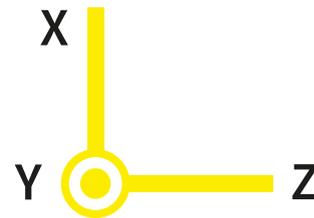**Modbus** · **OPC UA** · **MQTT**

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.

ACCESSORIES

The vibration Phantom 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.

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

CERTIFICATIONS

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.

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