

ERBESSD INSTRUMENTS®

# PHANTOM

Vibration Sensor

**PHANTOM ATEX**, the best wireless condition 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				HIGH RANGE		
<b>Part Number:</b> <b>EPH-ATX16</b>	<b>Sensor:</b> MEMS triaxial accelerometer			<b>Dynamic Range:</b> ±8/ ±16/ ±32 g	<b>Data Receiving Interval:</b> (Configurable) Min: 720 min Max: 1440 min	
<b>Frequency Range:</b> 0.5 Hz - 10 kHz [x,y] 0.5 Hz - 5.1 kHz [z]	<b>Spectral Noise:</b> 630 µg/√Hz			<b>Resolution Lines:</b> 6400		
<b>Recording Time (s):</b>	1	2	4	8	16	<b>Fixture:</b>
<b>Sample Rate (Hz):</b>	25600	12800	6400	3200	1600	Fastener
<b>Max Frequency (Hz) [x,y]:</b>	10000	5000	2500	1250	625	1/4 - 28
<b>Max Frequency (Hz) [z]:</b>	5100	5000	2500	1250	625	UNF

MEASUREMENT				HIGH SENSITIVITY		
<b>Part Number:</b> <b>EPH-ATX15</b>	<b>Sensor:</b> MEMS triaxial accelerometer			<b>Dynamic Range:</b> ±2/ ±4/ ±8 g	<b>Data Receiving Interval:</b> (Configurable) Min: 720 min Max: 1440 min	
<b>Frequency Range:</b> 0.5 Hz - 4 kHz [x,y] 0.5 Hz - 1.8 kHz [z]	<b>Spectral Noise:</b> 130 µg/√Hz			<b>Resolution Lines:</b> 6400		
<b>Recording Time (s):</b>	1	2	4	8	16	<b>Fixture:</b>
<b>Sample Rate (Hz):</b>	25600	12800	6400	3200	1600	Fastener
<b>Max Frequency (Hz) [x,y]:</b>	4000	4000	2500	1250	625	1/4 - 28
<b>Max Frequency (Hz) [z]:</b>	1800	1800	1800	1250	625	UNF



**POWER SUPPLY**

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

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

**CONNECTIVITY AND SOFTWARE**

**Wireless Protocol:**  
Bluetooth BLE 5.0 / Modbus via Gateway

**Signal Strength Range:**  
-90dBm to -30dBm

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

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

**Wireless Range:**  
100m line sight

**Operating Frequency:**  
2.4GHz

**DIMENSIONS**

**Dimensions:**  
48mm x 34mm

**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

**DigivibeMX®**

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



Phantom sensors are compatible with communication protocol

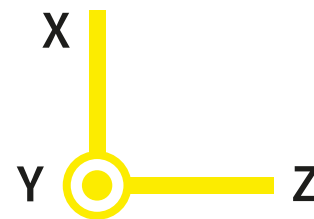


## QUICK GUIDE

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 mounting 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 Thermocouple & 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 compatible 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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