

ERBESSD INSTRUMENTS®

# PHANTOM

Vibration Sensor

**PHANTOM**, 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.

The signal from the Phantom sensors is encrypted which ensures the reliability of the information and the security of your data.

# TECHNICAL SPECIFICATIONS

You can find **Phantom Expert** in it's **High Sensitivity** version (EPH-V10) or in it's **High Range** version (EPH-V11).

MEASUREMENT							HIGH SENSITIVITY
<b>Part Number:</b> <b>EPH-V10</b>		<b>Sensor:</b> MEMS triaxial accelerometer					<b>Dynamic Range:</b> 2G / 4G / 8G
<b>Frequency Range:</b> 4 kHz (x,y) 1.8 kHz (z)		<b>Spectral Noise:</b> 130 µg/√Hz					<b>Data Receiving Interval:</b> (Configurable) Min: 10 min - Max: 1440 min
<b>Recording Time(s):</b>	1	2	4	8	16	<b>Resolution Lines:</b> 6400	
<b>Sample Rate (Hz):</b>	25600	12800	6400	3200	1600		
<b>Max Frequency (Hz):</b>	4000	2000	1000	500	250		
						<b>Sensitivity:</b> 100mV/G	
MEASUREMENT							HIGH RANGE
<b>Part Number:</b> <b>EPH-V11</b>		<b>Sensor:</b> MEMS triaxial accelerometer					<b>Dynamic Range:</b> 8G / 16G / 32G
<b>Frequency Range:</b> 10 kHz (x,y) 5.1 kHz (z)		<b>Spectral Noise:</b> 630 µg/√Hz					<b>Data Receiving Intergal:</b> (Configurable) Min: 10 min - Max: 1440 min
<b>Recording Time (s):</b>	1	2	4	8	16	<b>Resolution Lines:</b> 6400	
<b>Sample Rate (Hz):</b>	25600	12800	6400	3200	1600		
<b>Max Frequency (Hz):</b>	10000	5000	2500	1250	625		
						<b>Sensitivity:</b> 100mV/G	

**POWER SUPPLY**

**Battery Lifetime:**  
100,000 measurements  
Standby mode if Gateway not detected

**Main Power Supply:**  
Lithium battery “1/6D” 3.6V and 1.7A  
(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

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

**Material:**  
ABS / Stainless Steel

**Protection Rating:**  
Water and dust resistant (IP67)

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.

## ACCESSORIES

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

Add it to your measurement point through 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.



Coming soon...

Phantom  
Thermographic  
Camera



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