

ERBESSD INSTRUMENTS®

# PHANTOM

RPM Sensor

**PHANTOM**, the best wireless continuous monitoring system worldwide.



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

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



# TECHNICAL SPECIFICATIONS

## MEASUREMENT

**Part Number:**  
EPH-S40

**Switching Speed:**  
600 kRPM

**Active Distance:**  
5mm to 15mm

**Status:**  
Battery, temperature  
sensor and RPM

**Internal Temperature  
Accuracy:**  
±5°C

**Data Receiving  
Interval:**  
5min / Not configurable

**Sensor:**  
Hall effect sensor

## POWER SUPPLY

**Battery Lifetime:**  
2-3 years  
Standby Mode if Gateway not detected

**Main Power Supply:**  
2 AAA 1.5V Batteries (Replaceable)

## CONNECTIVITY AND SOFTWARE

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

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

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

**Wireless Range:**  
100m line sight

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

**Operating Frequency:**  
2.4GHz

## DIMENSIONS

**Dimensions:**  
100mm x 77mm x 26mm

**Weight:**  
138 gr

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

**Material:**  
Nylamid / Aluminum

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

## ACCESSORIES

The RPM Phantom is optimized for use with a **Hall effect sensor\***. Its case design enables screw or adhesive mounting and capable of switching up to 28Vdc and 20mA.

## Specifications

**Switching Speed:**  
600 kRPM

**Dimensions (case):**  
11 x 25.5 x 3 mm

**Operating Temperature:**  
-40C to 100°C  
-40°F to 212°F

**Cable length:**  
3m

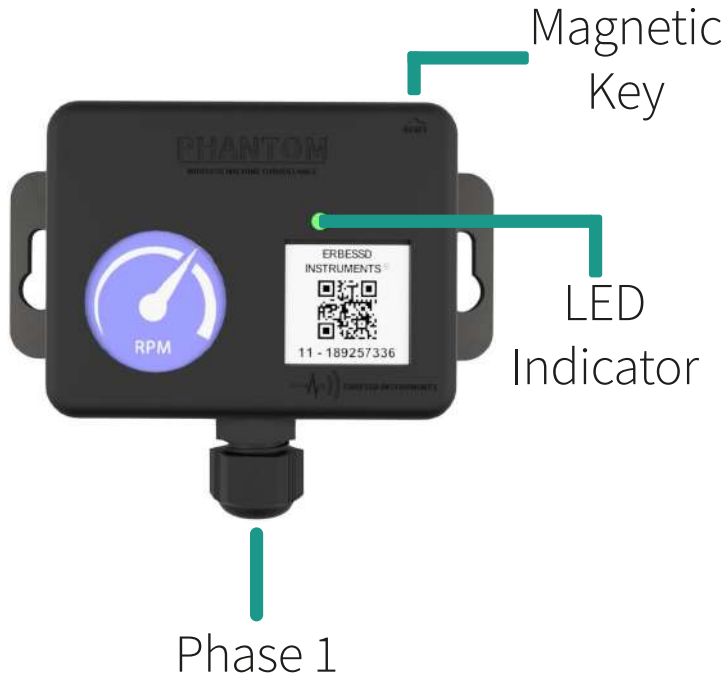
**Shock resistance:**  
150g (max)



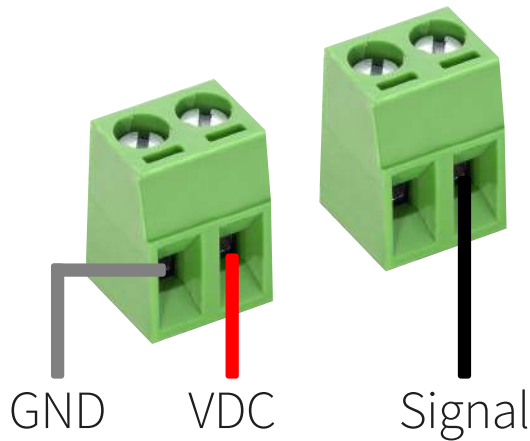
Place your sensor's cables easily with the help of a screwdriver

\*Not included in the kit.

# QUICK GUIDE



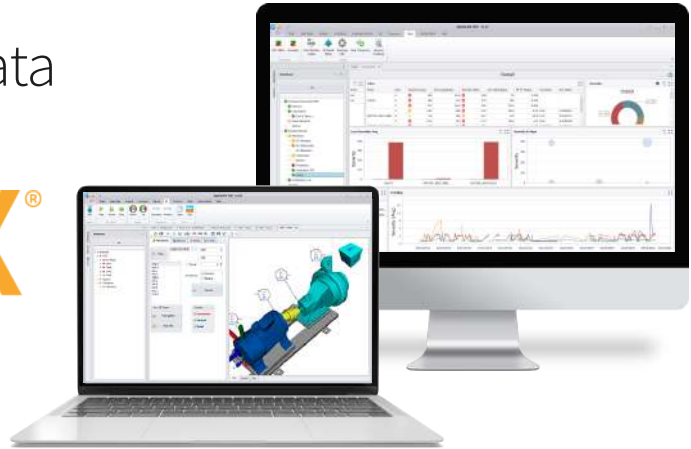
# CONNECTION DIAGRAM



Signal	VDC	GND
Black cable	Red cable	Grey cable

Analyze and visualize the data  
of your sensors with

**DigivibeMX®**



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

Phantom sensors are compatible with  
communication protocol



# MEET THE PHANTOM FAMILY

## *Phantom Expert & Phantom Gen 2*

High Range triaxial vibration sensor. It is able to send 3 simultaneous FFT and time waveform recordings at once. Available in **High Sensitivity**, **Biaxial** and **ATEX**.



## *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 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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PR-DS2021.0429.15