

ERBESSD INSTRUMENTS®

PHANTOM

RPM Sensor

PHANTOM, the best wireless condition 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:
12,000 measurements
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 g

**Base Temperature
Range:**

Material:
Nylamid / Aluminum

Protection Rating:
Water and dust resistant (IP67)

-40 to +80 °C
(-40 to +176 °F)

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:
-40°C to 100°C
-40°F to 212°F

Cable length:
3m

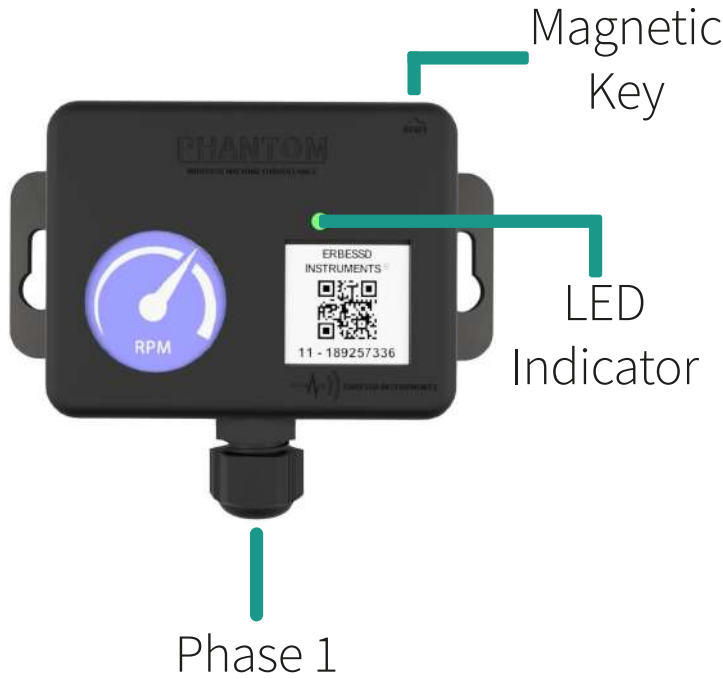
Shock resistance:
150g (max)



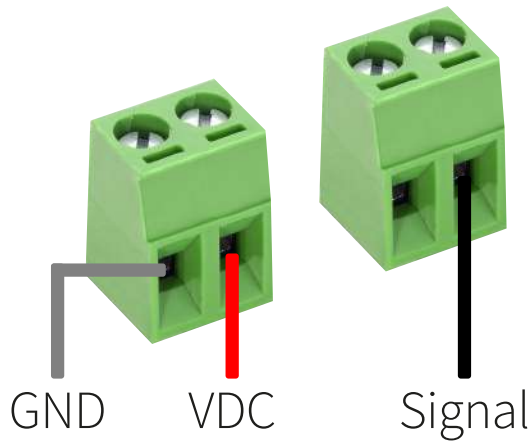
Place your sensor's cables easily with the help of a screwdriver

*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 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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