

ERBESSD INSTRUMENTS®

# PHANTOM

RPM Sensor

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



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



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



# TECHNICAL SPECIFICATIONS

| MEASUREMENT               |  |
|---------------------------|--|
| Product code              | EPH-S40  |
| Sensor                    | Hall effect sensor   |
| Switching speed           | 600 kRPM   |
| Active distance           | 5 mm to 15 mm  |
| Status                    | Battery, internal temperature and RPM value                                  |
| Data receiving interval   | Min: 1 min - Max: 120 min  |
| POWER SUPPLY              |  |
| Battery lifetime          | 12,000 measurements  |
| Main power supply         | 3.5 VDC / 1.5 A (2xAA Batteries)   |
|                           | 5-24 VDC / 1A (External power supply)  |
| CONNECTIVITY AND SOFTWARE |  |
| Wireless protocol         | Bluetooth BLE 5.0  |
| Operating frequency       | 2.4 GHz  |
| Transmission power        | ±8 dBm   |
| Signal strength range     | -90 dBm to -30 dBm   |
| Power output range        | -4 dBm to +8 dBm (Configurable)  |
| Devices compatibility     | iOS and Android devices (WISER VIBE & Phantom™ Manager) and Phantom™ Gateway |
| Software compatibility    | DigivibeMX 11 M30 & Phantom™ Version / Phantom™ Manager and WiSER VIBE       |
| Operating distance        | 100 m Line sight*  |
| Contains FCC ID           | X8WBT840   |
| DIMENSIONS AND FIXTURE    |  |
| Dimensions (h x w)        | 125 mm x 100 mm x 37 mm  |
| Protection grade          | IP67   |
| Weight                    | 500 grams  |
| Housing material          | Nylamid / Aluminium  |
| ENVIRONMENTAL CONDITIONS  |  |
| Operating temperature     | -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:**  
-40C to 100°C  
-40°F to 212°F

**Cable length:**  
3m

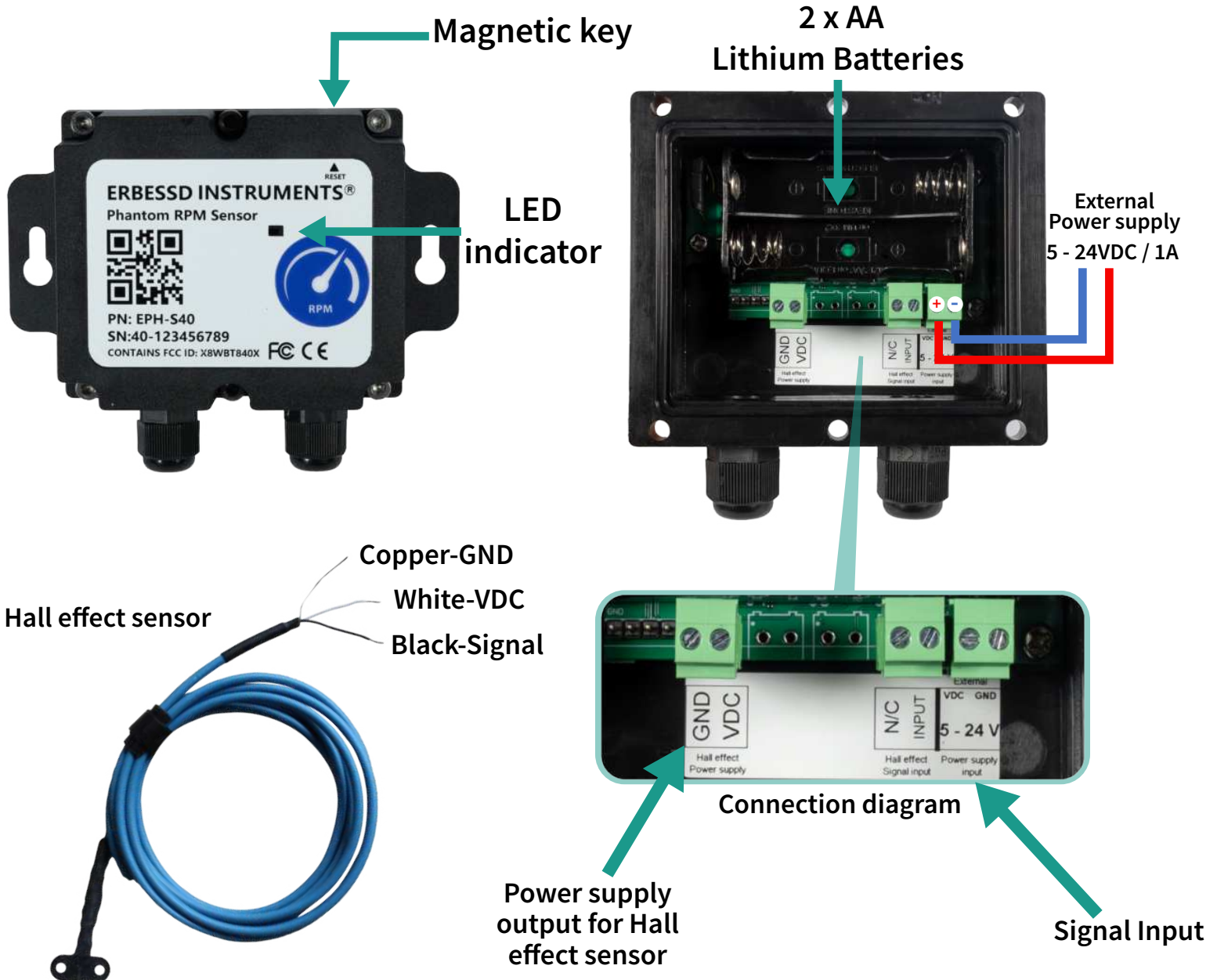
**Shock resistance:**  
150g (max)



### CERTIFICATIONS



# QUICK GUIDE



Analyze and visualize the health of your machines with

**DigivibeMX®**



Easily access your data worldwide with EI Analytic and WiSER VIBE PRO.

Phantom sensors are compatible with communication protocols:



(using Gateway 2.0)

# MEET THE PHANTOM FAMILY

## Phantom Expert Gen 3 & ATEX

Our popular triaxial vibration sensor. It is able to send 3 simultaneous FFT and time waveform recordings. Available in **High Sensitivity**, **High Range** 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.



## Phantom Thermographic 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 and alarms.



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