

ERBESSD INSTRUMENTS®

PHANTOM

Vibration, Current and Temperature Sensor

PHANTOM, the best wireless continuous 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 **All in One** sensor you can measure up to **3 phases** of amperage and **2 channels** of temperature while recording **triaxial vibration**.



TECHNICAL SPECIFICATIONS

You can find **Phantom All in One** in it's **High Sensitivity** version (EPH-U13) or in it's **High Range** version (EPH-U14).

MEASUREMENT			HIGH RANGE VIBRATION		
Part Number: EPH-U14	Sensor: MEMS triaxial accelerometer		Dynamic Range: ±8/ ±16/±32 g	Data Receiving Interval: (Configurable) Min: 10 min Max: 1440 min	
Frequency Range: 0.5 Hz - 10 kHz [x,y] 0.5 Hz - 5.1 kHz [z]	Spectral Noise: 630 µg/√Hz		Resolution Lines: 6400		
Recording Time (s):	1	2	4	8	16
Sample Rate (Hz):	25600	12800	6400	3200	1600
Max Frequency (Hz) [x,y]:	10000	5000	2500	1250	625
Max Frequency (Hz) [z]:	5100	5000	2500	1250	625

MEASUREMENT			HIGH SENSITIVITY VIBRATION		
Part Number: EPH-U13	Sensor: MEMS triaxial accelerometer		Dynamic Range: ±2/±4/±8 g	Data Receiving Interval: (Configurable) Min: 10 min Max: 1440 min	
Frequency Range: 0.5 Hz - 4 kHz [x,y] 0.5 Hz - 1.8 kHz [z]	Spectral Noise: 130 µg/√Hz		Resolution Lines: 6400		
Recording Time (s):	1	2	4	8	16
Sample Rate (Hz):	25600	12800	6400	3200	1600
Max Frequency (Hz) [x,y]:	4000	4000	2500	1250	625
Max Frequency (Hz) [z]:	1800	1800	1800	1250	625

MEASUREMENT		CURRENT
Clamps: 50 / 100 / 250 / 500 Amp	Frequency Range 50-60 Hz	Accuracy: ±5 %
Data Receiving Interval: (Configurable) Min: 1 min - Max: 120 min	Sensor: Split core current transformer sensor	Input: 3 Clamps for 3 phases measurement
Measurement: Minimum / Maximum / Average / Amp Hour	Internal Temperature Accuracy: ±5 °C	

MEASUREMENT		TEMPERATURE
Temperature range (ambient): -40 °C to 80 °C -40 °F to 176 °F	Internal Temperature Accuracy: ±5 °C	Status: Battery and temperature
Sensor: Thermocouple type K	Data Receiving Interval: (Configurable) Min: 1 min - Max: 120 min	Temperature Range (object): -100 °C to 1250 °C -212 °F to 2282 °F

ACCESSORIES

Each sensor has the ability to connect **3 clamps*** and **2 thermocouples***. You can use clamps of **50A, 100A, 250A** and **500A** and **type K** thermocouples.



*Sold separately

POWER SUPPLY

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

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

CONNECTIVITY AND SOFTWARE

Wireless Protocol:
Bluetooth BLE 5.0 /
Modbus via Gateway

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

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

Contains FCC ID:
X8WBT840

Wireless Range:
100 m line sight

Operating Frequency:
2.4 GHz

DIMENSIONS

Dimensions:
100 mm x 77 mm x 26 mm

Weight:
138 gr

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

Material:
Nylamid / Aluminum

Protection Rating:
Water and dust resistant (IP67)

Analize and visualize the
health of your machines with
DigivibeMX

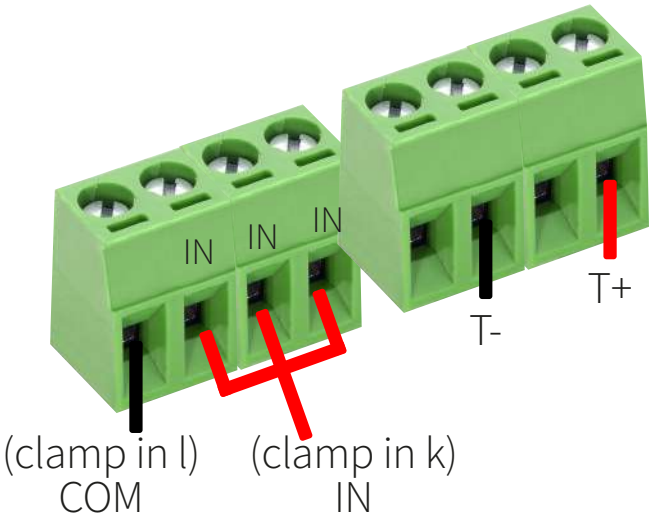
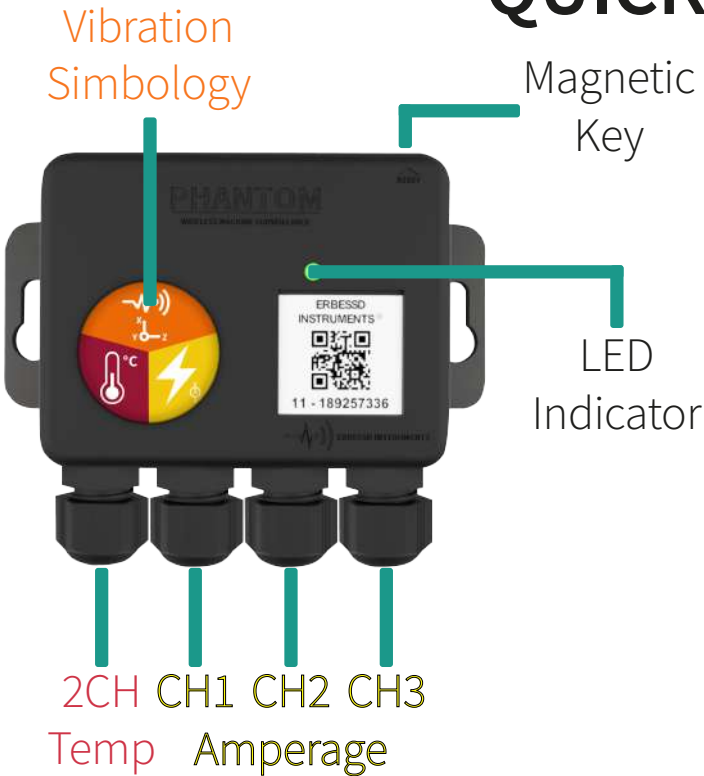
Easily access your data world-
wide with EI Analytic and
WiSER VIBE PRO.



CERTIFICATIONS



QUICK GUIDE



CONNECTION DIAGRAM

Amperage

COM	IN
Black cable	Red cable

Temperature

T-	T+
Black cable	Red cable

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 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 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 at different points of these captures.



ERBESSD INSTRUMENTS®

WORLDWIDE toll-free:

+1-877-223-4606

ENGLISH:

Sales, Service & Support Engineer

+1-518-874-2700

info@erbessdreliability.com

SPANISH & FRENCH:

Sales, Service & Support Engineer

+52 (55) 6280-7654 / +52 (999) 469-1603

info@erbessd-instruments.com

BUY ONLINE

www.erbessd-instruments.com

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