

ERBESSD INSTRUMENTS®

PHANTOM

Thermocouple Temperature Sensor

PHANTOM, the best wireless continuous monitoring system worldwide.



Have a better control of your machines' temperature with the Phantom Thermocouple sensor.

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



ACCESSORIES

Place your **thermocouple type K*** on your Phantom and start monitoring. This sensor can handle the most extreme temperatures so you can have control of even the most demanding machinery.

Specifications

Operating Temperature:

-100°C to 1250°C
-2218°F to 2282°C

Probe Material:

Stainless steel

Cable Length:

3 meters

Dimensions (probe):

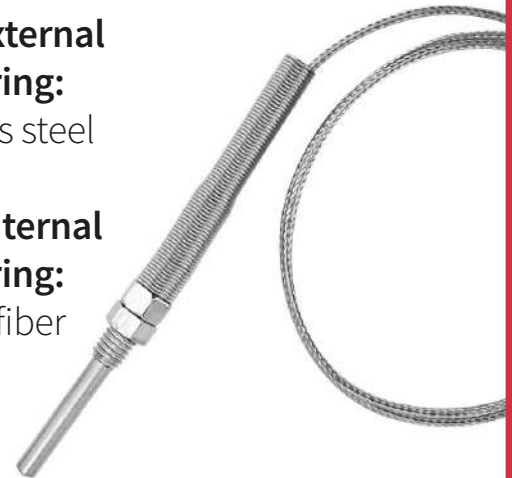
5mm x 100mm

**Cable External
Covering:**

Stainless steel

**Cable Internal
Covering:**

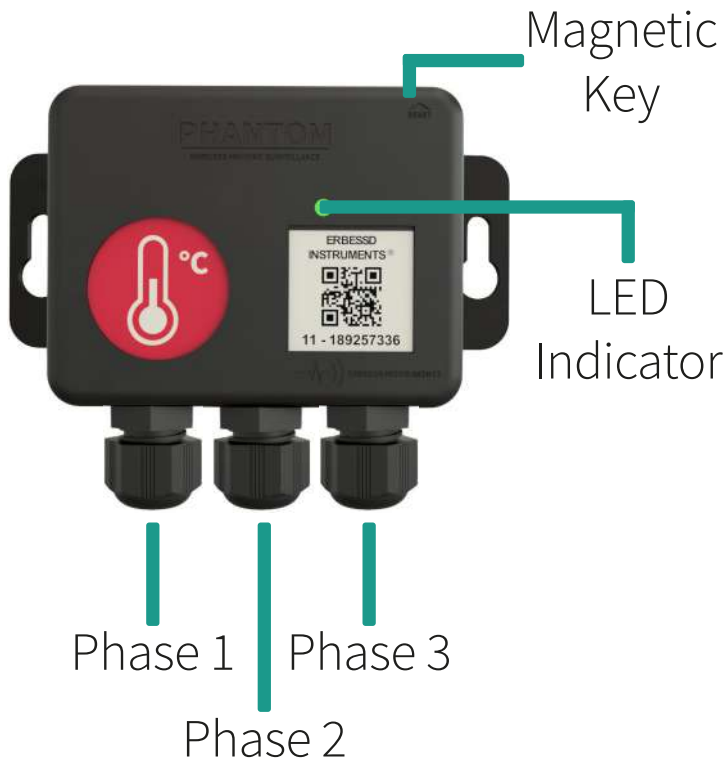
Glass fiber



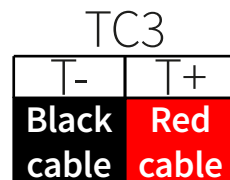
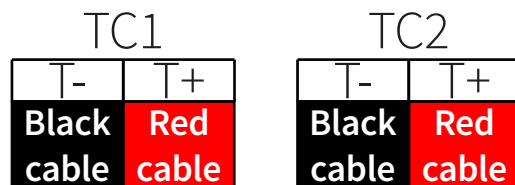
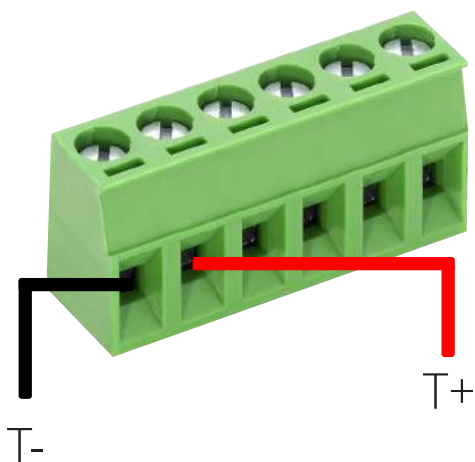
Place your sensor's cables easily with the help of a screwdriver

*Not included in the kit.

QUICK GUIDE



CONNECTION DIAGRAM



TECHNICAL SPECIFICATIONS

MEASUREMENT

Part Number:

EPH-T21

Sensor:

Thermocouple type K

Status:

Battery and temperature

**Temperature range
(ambient):**

-40°C a 80°C

-40°F a 176°F

**Data Receiving
Interval:**

30min / Configurable

**Temperature Range
(object):**

-210°C to 1800°C

-346°F to 3272°F

**Internal Temperature
Accuracy:**

±5°C

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

Power Output Range:

-4dBm a +8dBm

(Configurable)

Wireless Range:

100m line sight

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)

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 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 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*



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



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