PHANTOM
Thermocouple Temperature Sensor

PHANTOM, the best wireless condition 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.

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):
-100°C to 1250°C
-212°F to 2282°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
Firware Updates via Phantom
Manager (iOS & Android)

Signal Strenght 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

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
-212°F to 2282°F

Probe Material:
Stainless steel
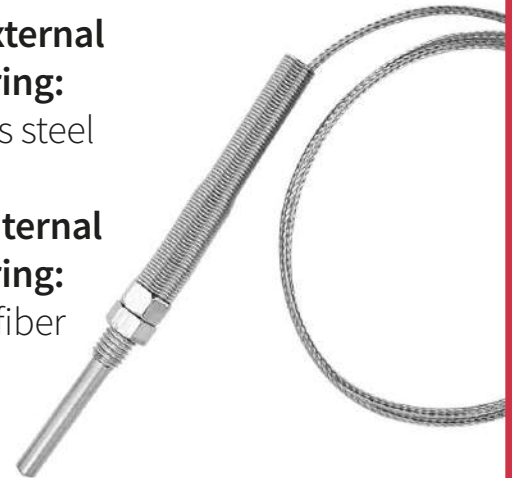
Cable Lenght:
3 meters

Dimensions (probe):
5mm x 100mm

Cable External Covering:
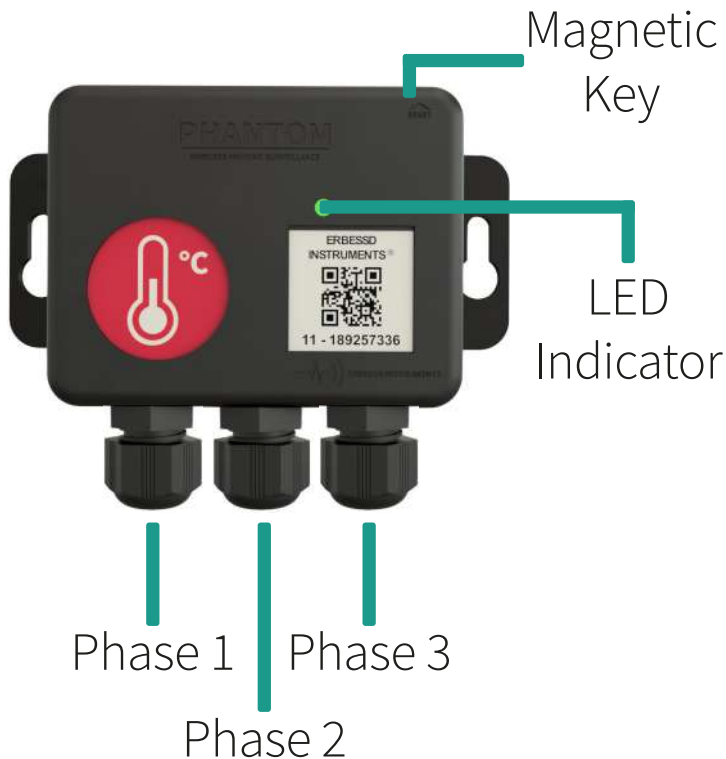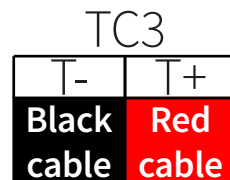Stainless steel
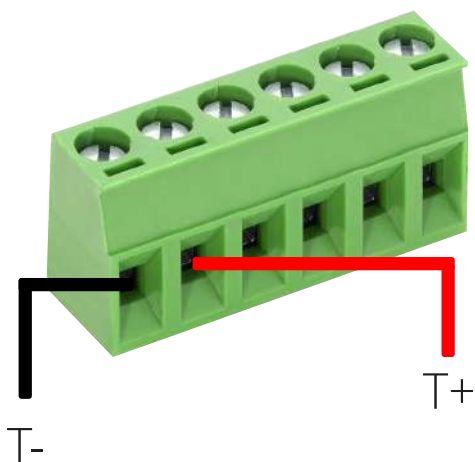
Cable Internal Covering:
Glass fiber

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

*Not included in the kit.

QUICK GUIDE

Magnetic Key

Battery Compartment (2xAAA)

LED Indicator

Phase 1   Phase 3

Phase 2

CONNECTION DIAGRAM

T+

T-

TC1	
T-	T+
Black cable	**Red cable**

TC2	
T-	T+
Black cable	**Red cable**

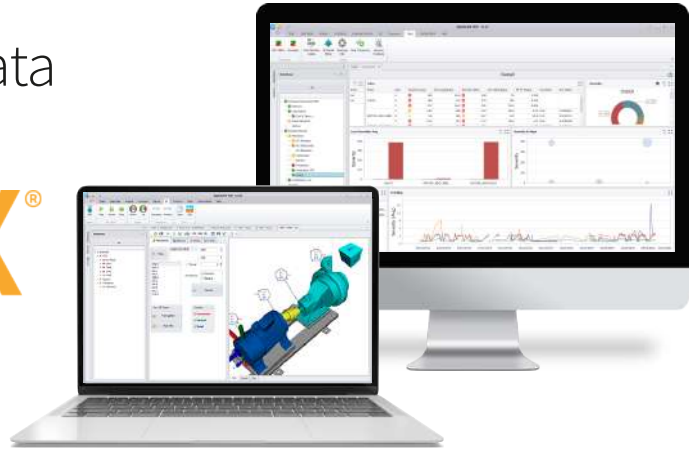| TC3	
T-	T+
Black cable	**Red cable**
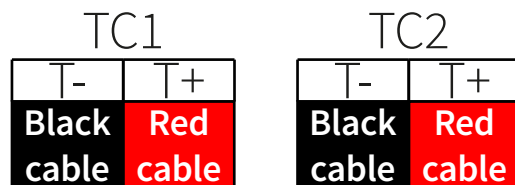
Analize and visualize the data of your sensors with

DigivibeMX®

EI ANALYTIC

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

Phantom sensors are compatible with communication protocol

Modbus

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 compatibe 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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