Wireless Technology

Phantom is the best all-inclusive battery powered wireless machine monitoring system worldwide.

Phantom’s exclusive technology enables full frequency range diagnosis just like ICP Accelerometers.

General Info

**Accelerometers**
Triaxial + Temperature
10 kHz FMax
Full waveform and spectrum data
Programmable Internal RMS Trigger
Maximum 6400 Lines of Resolution

**Amperage**
3 phases
5 - 1000 Amps

**RPM**
Rotation speed
200,000 RPM

**Temperature**
Thermocouple
Infrared Non Contact Sensor

**General Purpose Input sensor**
For proximity sensors or any other device
2 simultaneous channels
Orbits capability
48,000 Hz Sample Rate
Cloud or Local Network Capability with Open SQL Database

Storage

The Freedom to Choose:
» Store data locally
or
» Store data on the Cloud
(Open SQL database)

IT’S YOUR DATA: All data can be accessed through any database API for SQL or MySQL. Experience the power of DigivibeMX software with Phantom.

» Autodiagnostic tools
» Trending & Octave Bands
» 3D views and Simulations
» Automatic reports
» 3D Waterfall
» Phase Analysis
» Envelope Alarms
» 30,000+ bearings database
» And MUCH MORE...
Vibration Trending is a useful function to track the condition of your machines.

Octave bands trending is by far more powerful because it tracks every frequency by dividing the full spectrum into 32 bands and tracks the RMS value of each one of the bands independently helping to identify a change in amplitude easily.
PHANTOM I SURVEILLANCE SYSTEM

Monitoring Modules

Sensor Type: Triaxial Accelerometer
Sensor Range: 8 / 16 / 32 g
Sensor Accuracy: ± 3 db
Sensor freq. range: 10 kHz (x, y), 5.1 kHz (z)
Sampling Rate: 25600 Hz

Floor noise: V122
XY: 0.12 mg/√Hz
Z: 0.2 mg/√Hz

Floor noise: V222
XY: 0.63 mg/√Hz
Z: 0.9 mg/√Hz

Internal Temperature Accuracy: ± 1 °C
(± 1.8 °F)

Operating Temperatures: -40 to 85 °C (-40 to 185 °F)
Storage Temperatures: -60 to 105 °C (-76 to 221 °F)
Size: 47mm x 33 mm (1.85 x 1.3 in)
Weight: 100 grams / 3.5 oz

Battery type: 3.6 V Li – TL-5935
Battery Life: 2-4 years
Transmission Type: 2.4 GHz BLE 5.0
Distance Range: 150m, Line of Sight
Distance w/ Repeaters: Unlimited
IP Rating: IP67

Sensor Type: Temperature (Thermocouple)
Sensor Accuracy: ± 0.15 %
Sensor Range: -210 °C – 1800 °C
Thermocouples Types: K/U/N/R/S/T/E/B
Resolution: 0.25 °C (0.45 °F)

Max. Wire Length: 25 m.
Operating Temperature: -40 to 85 °C (-40 to 185 °F)
Storage Temperature: -60 to 105 °C (-76 to 221 °F)
Size: 47mm x 39 mm (1.85 x 1.53 in)
Weight: 100 grams / 3.5 oz
Battery type: 3.6 V Li – TL-5935
Battery Life: 5–9 years
Transmission Type: 2.4 GHz BLE 5.0
Distance Range: 150m, Line of Sight
Distance w/ Repeaters: Unlimited
Included: Type K Thermocouple
IP Rating: IP67

Sensor Type: Current – 3 Phases
Sensor Range: 50 / 150 / 500 / 1000 A
Frequency: 50 / 60 Hz up to 400 Hz
Sensor Accuracy: ± 0.5 % / ± 1.5 % / ± 1 % / ± 0.1 %

Operating Temperature: -40 to 85 °C (-40 to 185 °F)
Storage Temperature: -60 to 105 °C (-76 to 221 °F)
Size: 47mm x 39 mm (1.85 x 1.53 in)
Weight: 100 grams / 3.5 oz
Battery type: 3.6 V Li – TL-5935
Battery Life: 5–9 years
Transmission Type: 2.4 GHz BLE 5.0
Distance Range: 150m, Line of Sight
Distance w/ Repeaters: Unlimited
Included: Non invasive current sensor
IP Rating: IP67

Sensor Type: General Purpose Input
Input Range: ± 3 Volts / ± 24 Volts
Amplitude range: 24 bits – 108 dB
Channels: 2 (simultaneous)
Sampling Rate: 44100 Hz

Internal Temperature Accuracy: ± 1 °C
(± 1.8 °F)
Operating Temperatures: -40 to 85 °C (-40 to 185 °F)
Storage Temperatures: -60 to 105 °C (-76 to 221 °F)
Size: 47mm x 39 mm (1.85 x 1.53 in)
Weight: 100 grams / 3.5 oz
Battery type: 3.6 V Li – TL-5935
Battery Life: 2–4 years
Transmission Type: 2.4 GHz BLE 5.0
Distance Range: 150m, Line of Sight
Distance w/ Repeaters: Unlimited
Included: Cable adapter
IP Rating: IP67

Sensor Type: Tachometer
Switching Speed: Up to 10 KHz
RPM Range: 0 – 200,000 RPM
Sensor GAP: 1 – 15 mm
Sensor Type: Hall Effect - Omnipolar

Magnet Type: Neodymium
Operating Temperature: -40 to 85 °C (-40 to 185 °F)
Storage Temperature: -60 to 105 °C (-76 to 221 °F)
Size: 47mm x 39 mm (1.85 x 1.53 in)
Weight: 100 grams / 3.5 oz
Battery type: 3.6 V Li – TL-5935
Battery Life: 5–9 years
Transmission Type: 2.4 GHz BLE 5.0
Distance Range: 150m, Line of Sight
Distance w/ Repeaters: Unlimited
Included: Hall Effect Sensor
IP Rating: IP67

Sensor Type: Temperature (Thermocouple)
Input Range: ± 3 Volts / ± 24 Volts
Amplitude range: 24 bits – 108 dB
Channels: 2 (simultaneous)
Sampling Rate: 44100 Hz

Internal Temperature Accuracy: ± 1 °C
(± 1.8 °F)
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Weight: 100 grams / 3.5 oz
Battery type: 3.6 V Li – TL-5935
Battery Life: 5–9 years
Transmission Type: 2.4 GHz BLE 5.0
Distance Range: 150m, Line of Sight
Distance w/ Repeaters: Unlimited
Included: Type K Thermocouple
IP Rating: IP67

Sensor Type: General Purpose Input
Input Range: ± 3 Volts / ± 24 Volts
Amplitude range: 24 bits – 108 dB
Channels: 2 (simultaneous)
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Size: 47mm x 39 mm (1.85 x 1.53 in)
Weight: 100 grams / 3.5 oz
Battery type: 3.6 V Li – TL-5935
Battery Life: 2–4 years
Transmission Type: 2.4 GHz BLE 5.0
Distance Range: 150m, Line of Sight
Distance w/ Repeaters: Unlimited
Included: Cable adapter
IP Rating: IP67
Easy to install
Ultra long battery life

Small & intelligent

Module Design
» IP67 Dust & Water Proof
» MIL-SPEC 810G Rugged
» Easy 1/4 28˝ Thread Installation
» Automatic reports
» Network Programmable

Gateway
Wifi, 4G & Ethernet capable, LCD status screen
Not all wireless is created equal. Never compromise your data acquisition needs based on poor battery life, low fMax, or high noise floor technology.

Phantom’s BLE technology guarantees optimal life and system performance.

No Wires…
No People…
No Hazards…
Less Worries…
Why Wireless?

kit Includes:

Phantom (12 pieces)
1 Gateway