Machine Health Monitoring Solutions

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...
Trending & Octave Bands

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.
Monitorin Modules

**Sensor Type**: Accelerometer
- **Sensor Range**: Triax: 8/16/32 g; Biax: 20 g
- **Triax freq. range**: 10 Hz - 10 kHz (x, y), 5.1 kHz (z)
- **Biax freq. range**: 0.5 Hz - 10 kHz (x, y)
- **Sampling Rate**: Triax: 25600 Hz; Biax: 44100 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**: 47 mm 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
- **IP Rating**: IP67

**Sensor Type**: Triax: freq. range
- **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 / ± 1 %
- **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**: 47 mm 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**: 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**: 47 mm 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**: 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**: 47 mm 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**: 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**: 47 mm 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**: 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)
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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**: Hall Effect Sensor
- **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.

Kit Includes:

- Phantom (12 pieces)
- 1 Gateway

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