



Mediciones dinámicas EMAX.

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Dirigido a: Clientes

Email: manuel.sandoval@pdmconsultores.com

Teléfono: (506) 8939-8400

OBJETIVO:

Saludos cordiales, PDM Consultores se complace en poder ofrecer servicios de pruebas eléctricas a motores y generadores

PdM Consultores líder en el mercado en implementación y capacitaciones de ingeniería en confiabilidad, así como entrenamientos en técnicas predictivas.

El equipo realiza una serie de capturas de datos desde los centros de control de motores, con el motor energizado que permiten diagnosticar las zonas de fallas, ofreciendo un análisis de la causa raíz. Los datos cumplen criterios de la IEEE, NEMA MG1 y EASA.

ALCANCE TECNICO PRUEBAS DINÁMICAS:



- Portable and battery powered
- Monitors Power quality, Power Circuit, Stator, Rotor, and Air Gap
- Low, medium, and high voltage motors
- Six channel simultaneous acquisition
- Torque and efficiency analysis
- Impedance and phase angle measurement
- Power and current signature tests













Description

The EMAX On-line motor test equipment offers the most versatile approach to troubleshooting and trending de-energized electric motors on the market today.

It is equipped with a fully functional laptop computer and loaded with MCEGold, the gold standard in motor management software.

With MCEGold the entire test history of your electric motor along with the latest in acceptance criteria from IEEE and NEMA is at your fingertips. Immediately following the test, Red or Yellow color-coded alarms identify any test data that is outside the acceptance criteria.

The case is made of ultra high impact ABS material for ruggedness. It is easy to carry and no AC power is required, making tough to reach motors or starters easier to test.

Voltage Measurement:

AC Voltage 0-1000 Vrms
Direct line ±1% (10 to 100% of range)
Secondary line ±1% + PT error (10 to 100% of range)

MTAP Leads 0-35 VAC $\pm 1\%$ +PT error (10 to 100% of range)

DC Voltage 0-1000 Vpeak (Qualitative only)

Current Measurement AC/DC:

±0.5% of input (± accuracy of the probes)

Standard Current Probe Set:

PdMA 2128.14 ±1%(of reading) ±0.1mV from 1 to 12A @100mV/A ±1%(of reading) ±2mV from 10 to 80A @10mV/A ±2.5%(of reading) ±2mV from 100 to 150A @10mV/A

Power Measurement:

THD/HVF/ Spectrum - 50th harmonic

Current Spectrum Analysis:

8,000 lines resolution

Data Includes:

- Current Spectral Analysis
- High Frequency Eccentricity Analysis
- Three Phase In-Rush/Start-Up
- Phase-to-Phase Voltage RMS
- Line-to-Neutral Voltage RMS
- Voltage Imbalance
- Crest Factor
- Total Harmonic Distortion (THD)
- % Full Load Amps
- Average Current RMS
- Phase Current RMS
- · Phase Impedance
- · Impedance Imbalance
- Power (KW, KVA, KVAR)
- Power Factor
- Efficiency
- Energy Cost Analysis
- Output Power
- AC/DC Motor Testing
- Torque

Test Lead Set:

10 ft. (3.05 m.) fused voltage leads for 3 phases and ground.

10 ft. (3.05 m) current probe cable connects 3 probes via BNC connector

Voltage probe accessory kit

Three 6 ft. (1.83 m.) current probes for three phases

Tester Battery:

Li Ion - 6.6Ah

Computer Voltage Input:

AC 100-240 V, 50/60 Hz

Environmental

Operating temperature: 32°F to 95°F (0°C to 35°C)

Storage temperature:

-40°F to 149°F (-40°C to 65°C)

Operating Humidity:

10% - 90% (non-condensing)

5% - 95% (non-condensing)













In-Rush/Start-Up Test:

Sampling rate 3,600/second Test duration 1 minute

Rotor Evaluation Test:

Sampling rate 960/second Fmax 0-480 Hz Resolution 8,000 lines

Eccentricity and Power Test:

Sampling rate 12,288/second Fmax 0-6,000 Hz Resolution 8,000 lines

Dimension:

18.5x14.5x6 in. (46.99x36.83x15.24 cm)

Weight:

26 lbs (11.79 kg)

Accuracies to within the specified +/- % accuracy or +/- two resolution steps whichever is greater.



Lightweight Portable Electric Motor Analyzer



www.PdMA.com





