

iTIG II MINI

MOTOR TESTER AND WINDING ANALYZER



EASY TO USE TESTER THAT FINDS MORE FAULTS.

The state of the art Electrom iTIG II MINI is a light weight very portable tester that provides a wide range of tests to analyze the condition of insulation systems in all types of motors, generators, windings and coils.

It comes in several different models with varying options and output ranges to fit most budgets.

CONTACT US ABOUT LOW RISK INVESTMENTS IN TESTERS



iTIG II MINI TEST AND MEASUREMENT OPTIONS

Surge comparison

DC Hipot

Step Voltage

Insulation Resistance (Meg test)

Dielectric Absorption (DAR)

Polarization Index (PI)

Low resistance ($m\Omega$ or $\mu\Omega$)

Max output voltage for Hipot and Surge: 4kV or 6kV
Connected to the PP-II Power Pack: 24kV or 30kV



USES FOR iTIG II MINI TESTS AND MEASUREMENTS

Failures / Test	Surge	DC Hipot	Step Voltage	IR	DAR	PI	Low R ($\mu\Omega$)
Weak insulation turn to turn, coil to coil, phase to phase	✓						
Shorts Turn to turn, coil to coil, phase to phase	✓						✓
Weak ground wall	✓	✓	✓	✓	✓	✓	
Dielectric ground wall strength		✓	✓				
Dirty or moist windings		✓	✓	✓	✓	✓	
Phase unbalance	✓						✓
Open coils	✓						✓
Reversed coils	✓						
Motor lead connections							✓
Power cable faults	✓	✓	✓	✓	✓	✓	



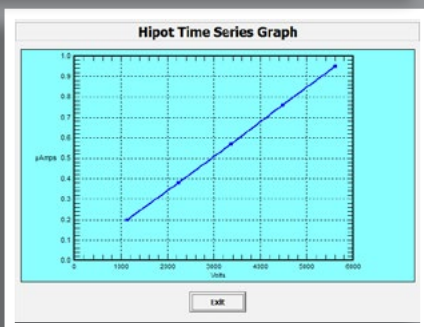
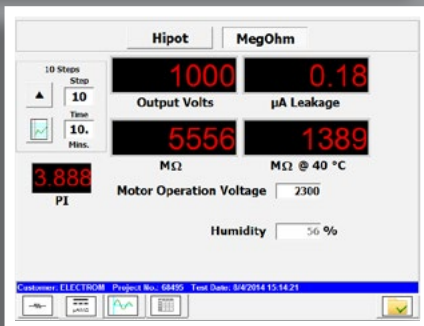
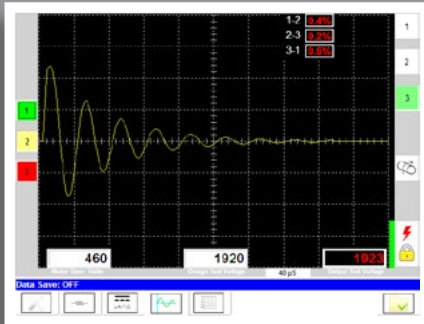
The MINI has one High Voltage lead that can be energized and two ground leads. The leads are moved between tests.

The tester switches automatically between Meg/Hipot and Surge.

A 4-wire leadset plugs into the front panel for winding resistance measurements.

THREE MODELS FROM BASIC TO AUTOMATED TESTERS

Surge, Hipot, Megohm And Low Resistance Tests.



► Superior High Frequency Surge Pulses.

Eliminates ionization dissipation present in low frequency surge testers such as those pulsing at 5Hz and lower. As a result, the iTIG II MINI finds weak insulation at lower voltages than low frequency testers and better simulates motor operating conditions.

► Automatic Quick Surge™ and Surge Guard™

Enables the user to push a button and let the iTIG II MINI quickly run the test with a controlled and limited number of pulses. Surge waveform ranges are automatically set for all models; no need to push buttons or turn dials.

► Manual or Automated IR & Hipot Tests

Includes Meg, DAR, PI and Step Voltage tests depending on the model.

► Winding Resistance

Model B and C come standard with milli Ohm measurement done through a 4-wire Kelvin clamp lead set. Model C has an option for micro Ohms.

WINDOWS OPERATING SYSTEM AND REPORT SOFTWARE

- ▶ Test Report Pro or TRPro runs on PCs and works with models B to C
- ▶ Data is easily transferred back and forth between the iTIG II MINI and a PC or server. It is done with one click using a wireless connection or a USB flash drive.
- ▶ Print reports from a PC or from the iTIG II MINI directly
- ▶ 30GB+ SSD memory in the iTIG II MINI can store over a million tests.

PASS / FAIL RESULTS

Surge	PASS
MegOhm	PASS
Hipot	PASS
Hipot Step Test	PASS
Ohms Balance	PASS
Off-line Equip.Rating	PASS
On-line Equip.Rating	PASS

LANGUAGES

The iTIG II MINI and TRPro report software are available in multiple languages.

DC MOTOR ACCESSORIES

To make DC motor and armature testing easy, we offer a number of fixtures and probes:

- ATF-11 with adjustable span for armature surge tests
- ASP probe set (2) for armature surge tests
- ARP Bar-to-Bar resistance measurement probes



OTHER ELECTROM PRODUCTS



ITIG II WINDING ANALYZER

Comes in several models from basic to fully automatic where all tests and measurements can be done with one leadset.

Output options from 4kV to 12kV.
Rugged, portable and light weight.



POWER PACKS

- ▶ Portable light weight Power Packs with 24kV and 30kV/45J outputs.
- ▶ Automatic tests available depending on the iTIG II model it is connected to.

ITIG II MINI / POWER PACK



The lightest weight 24kV or 30kV tester combination available anywhere.

Request the PP option with the iTIG II MINI.

iTIG II MINI 6kV SPECIFICATIONS

SURGE

Surge Voltage Accuracy	10%
Repetition rate	50/60Hz
Capacitance	25nF
Max. Surge Energy	0.45J

DC IR AND HIPOT

Voltage accuracy	2%
Current resolution	0.01 μ A
Current accuracy	2%
Max resistance	600 G Ω
Min resistance	0.5 M Ω
Resistance accuracy	4%
Current trip-out	0-2000 μ A

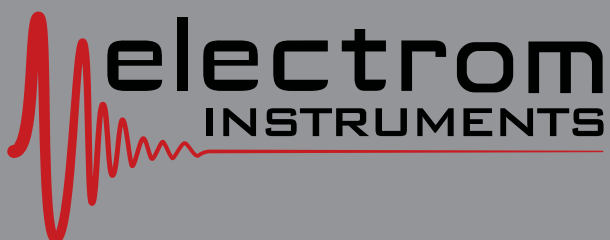
WINDING RESISTANCE

Resolution	1m Ω or 1 $\mu\Omega$
Accuracy 100 $\mu\Omega$ to 2k Ω	0.5% to 0.1%

Power Input: 110-240V \pm 10%, 50/60Hz
Weight: ~25 lbs / 12kg depending on options



Portable, rugged and lightweight



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