

## IWT-1000L

### IMPULSE WINDING/SURGE TESTER FOR ULTRA LOW INDUCTANCE IMPULSE WINDING TESTER

IWT-1000L is an Impulse Winding/Surge Tester specially designed for ultra low inductance coil testing, offering programmable DC test voltage from 10V to 1000V with extremely high sampling rate at 200MHz. The inductance range to be tested is from 0.1uH up to 50mH, which covers nearly all that of various coil DUTs including high-power inductance, transformer, wireless charger coils ... etc. The main purpose of IWT-1000 L is to find pre-existing defects, caused by poor winding, insulation, magnet parts, of components by comparing the waveform with that of the Master sample, and to ensure you of long-term reliable end products.



#### Features

- ⊙ Ultra Low Test Inductance Range - 0.1uH.
- ⊙ 10V~1000V Programmable DC Voltage with minimum out-put energy that causes no damages to DUTs.
- ⊙ High Sampling Rate at 200MHz for better detection of discharges.
- ⊙ Four Waveform Comparison methods AreaSize, DiffZone, Corona Amount, Corona Number Comparison for simple & fast testing.
- ⊙ Extremely Low Test Voltage Steps for best waveform analysis.
- ⊙ Two Coaxial 4-Wire Cables for most precise waveforms of low inductance DUTs.
- ⊙ Intuitive result display of Pass/Fail icons.
- ⊙ Internal memory storage of 360 waveforms.
- ⊙ User-friendly operation interface.
- ⊙ Inductance differential voltage compensation function.
- ⊙ PC/PLC communication via standard RS-232 string command for building automated testing system.
- ⊙ PC connection via USB 2.0 & RS-232, capable of uploading waveforms and data to PC in Excel format for easy analysis and records.
- ⊙ External I/O(Handler) control via standard 15Pin D-Sub connector for automated system integration and direct foot switch of starting tests.

#### Specifications

Test Voltage	10V ~ 1,000V
Inductance Range	0.1μH ~ 50mH
Out-put Energy	15mJ (Max)
Voltage Difference	± (3% of setting+10v) + 2% of range
Analysis Precision	± (3% of setting+2v) Basic
Sampling Rate	200MHz / 5ns
Sampling Memory	5,000 Bytes
In-put Resistance	10MΩ
Display	320 x 234, 5.6" Color TFT LCD
Comparison Methods	Area Size, Area Difference, Corona Amount, Corona Number
Waveform Storage	360 Waveforms
Result Display	Pass/Fail, Alarm
Communication	RS-232/USB2.0/External I/O (Direct Foot Switch)
Operation Temp.	25°C ~ 40°C (77°F~104°F)
Power	90VAC ~ 260VAC
Frequency	50 / 60Hz
Dimension	310 x 150 x 180mm
Weight	4.5Kg (drift )
Operating System	WinXP / Vista / 7 / 8 32 & 64Bit

#### Applicable Fields

- ⊙ High-Power Inductance
- ⊙ Power Choke
- ⊙ Transformer Coils
- ⊙ Wireless Charger Coils
- ⊙ SMD Small Inductance parts
- ⊙ All types of coil related products
- ⊙ Coil components Incoming Inspection

#### Std. Accessories

- ⊙ Main Unit x1
- ⊙ HV Cable x1
- ⊙ Power Cable x1
- ⊙ RS-232 Cable x1
- ⊙ USB Cable x1
- ⊙ CD x1 (Including SW&Manual)

#### Optional Accessories

- ⊙ Foot Switch
- ⊙ HV Cable