

for Highly Accurate Testing

SOLUTION

10-bit/100MHz
Voltage Resolution 1024

It is a well-known fact that the surge or impulse voltage test is one of the most effective methods for testing coil windings. The Surge Tester is non-destructive and accurately detects winding faults by comparing the waveforms of a test winding with that of a known standard.



10-bit A/C Converter is adopted. High resolution provides extremely precise testing.

Improved basic performances of impulse tester (such as signal-to-noise ratio, frequency characteristic, etc.) enabled more detailed Partial Discharge noise detection.

Base line fluctuation of AC or DC coupling due to the temperature change is controlled by the auto zero adjustment; as a result, precision of PASS/FAIL detection has improved. The auto zero adjustment is essential for materializing 10-bit voltage resolution tester.

Estimation of the inductance of master coil can be performed. Because the estimation is calculated by using high voltage, the estimated value may be different from the value of an LCR meter.

225 types of master waveform can be stored in the main memory. Also, master waveforms and test waveforms can be displayed on PC.

Statistical data such as percent defective, variance, etc. can be displayed in graph.

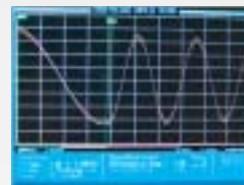
This tester can be remote-controlled on PC.



Decision to PASS



Decision to FAIL



Estimated L displayed in Zone setting



Graphical display of statistics

SPECIFICATIONS

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Output Voltage	200 - 6,000Volts (10V-step)
Pulse Energy	Max. 0.18 joules
Inductance Range	10 μ H (recommendable)
CPU	HITACHI SH4 (Renaissance Technology)
Sampling Speed	10-bit/10nano-sec (1024 Voltage Resolution, 100MHz)
Sweep Range (time axis)	400 ranges (liner)
Master Waveform Memory	225 types in the main memory, Data downloadable to PC
LCD Display	640 \times 480 dots (VGA), 8.4" TFT Color LCD, 256-color display
Waveform Display Area	620 \times 340 dots
Detection Method	Differential Area, 2nd Zero Cross Point, Corona/PD, Error Area
Dimensions/Weight	450 (W) \times 310 (D) \times 180 (H) mm、 approx. 9kg
Power Requirements	100 - 240VAC \pm 5%, 50/60Hz
Accessories	AC Power Cable (1.5m) \times 1, High-voltage Test Cable (1.5m) \times 1

Data subject to change without notice.

