Gopal Electronics

DW22

Digital Single Sheet Tester

Watt/kg 0.650
Thickness T 0.5mm
Induction B 1.5 Tesla

Direct Reading of watt/kg

SAMPLE ?
Thickness T 0.5mm
Induction B 1.5 Tesla

Automatic Sample Detection

Small Probe Detected Wait..

Automatic Probe Detection

SAMPLE O
Thickness T 0.5mm
Induction B 1.5 Tesla

Automatic overload detection

Features

- Crystal Accurate inbuilt sine wave generator
- Testing at 50Hz & 60Hz
- Better accuracy than ever
- 24Mhz MSP-430 micro controller base design
- Pure sinusoidal source and measure
- Long terms stability and accuracy maintain
- Password protected calibration
- Separate Rotary Knob for Thickness & Tesla
- Graphic LCD display 128 x 64 pixel
- Direct readings of W/Kg upto 25 Watt per Kg
- Connector type low loss probe
- Standard & big size of specimen possible to test
- User-friendly operation & portable size
- Automatic Probe and Sample detection
- option available Big size probe for high accuracy
- Auto detected small and Big probe when no sample

Dw22 is single sheet iron loss tester which is useful to evaluate iron loss of electrical steel sheet CRGO, CRNO material and suitable for testing EI lamination, Motor Stamping, Fan motor stamping etc. Single sheet tester is suitable for tentative evaluation of sample, how ever for precision measurement user can go for Epstein Tester.

DW-22 is provided with a stroboscopic probe when placed on specimen, closes the magnetic path between probe and specimen. Probe has two coils primary and secondary (like transformer). When power applied to primary coil and detected by secondary coil appropriate to specimen data and measure voltage, current and power. Then measured data calculated by micro-controller appropriate to specimen's data (core area and weight) gives result as watt/kg

DW-22 frequently used to measure the properties of both fully processed and semi-processed non-oriented and magnetic lamination steel sheet. It may also be used to evaluate oriented electrical steels in either they are sheared or stress-relief annealed condition. But the accuracy of reading is totally depend on sample condition

We have invented & developed singe sheet test method in year 1995. Dw22 is fourth generation equipment with most advanced technology and having precision measuring circuit. Small probe comes with equipment as standard so small samples could be test like motor stampings.

Technical Specification

Universal Auxiliary Supply	=	AC 110 V @ 60Hz or 230 V @ 50Hz [10 VA ± 20%]
Source Capacity	=	1.8 Tesla @ 0.5 mm thickness
Test Frequency Range	=	50Hz & 60Hz
Magnetic Flux Density Range	=	1.0 to 1.8 Tesla (Weber per square meter)

Dimensions

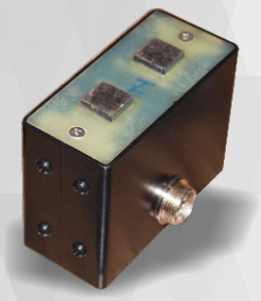
Dimension of Main Unit	=	H 82mm, L 228 mm, W 250 mm Approx.
Dimension of Small Probe	=	H 66mm, L 82 mm, W 37mm
Core Size of Small Probe	=	44x14 mm

Weight of Main Unit	=	5.0 Kg. Approx.
Weight of Probe	=	0.320 kg Approx.
Dimension of final carton	=	H 500mm, L 400mm, W 210mm Aprox
Weight of final carton	=	6.5 Kg. Approx.

Specimen

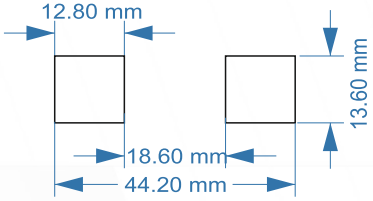
Standard Specimen Size	=	30x305mm
Minimum Specimen Size	=	44x14 mm (Small Probe)
Specimen Thickness Range	=	0.18 to 0.65 mm for best accuracy
Type of Specimen	=	CRGO, CRNO, HR And Electrical Steel Sheet

Induction resolution	=	0.01 Tesla
Accuracy of Induction	=	± 0.1 Tesla
Thickness resolution	=	0.001 mm
Accuracy of inbuilt device	=	Volt meter : ± 0.1%
	=	Ammeter : ± 0.1%
	=	Power meter : ± 0.2%
	=	Frequency meter : ± 0.05 Hz



Probe

- Included in Price
- Suitable for small size stamping & EI Lamination
- Minimum Sample size 44x14mm



About Us

Gopal Electronics was established in 1989 by Mr. Gangaram Panchal in Ahmedabad (India), who has over 40 years of experience in magnetic measurement of soft and hard magnetic material. He invented the first product that was the single sheet watt loss tester for watt loss measurement of motor stamping and EI type laminations. That product proves as very good solutions for the trades and suppliers of electrical stamping to evaluate their material grade. We setup our new manufacturing unit at naroda, Ahmedabad in 1995. Then the development chain starts and we developed range of products like Digital Iron Loss Tester, Holiday Detector, 3 Phase Power Analyzer Epstein tester, Franklin Tester, Turns ratio meter etc. Our range of products is world renowned. These instruments are endorsed by reputed companies like ABB, BHEL, Tata Steel, Emco Ltd, Alstrom (Areva), Crompton Greaves (Germany) etc.

Exporting to More than 45 Countries

Few of our Valued Customers

- Tata Steel
- Essar Steel
- Ajanta Group
- Orient Electric
- Arev T&D
- BHEL
- Pitti Lamination
- ABB
- Crompton Greaves
- Jindal's
- Orpat
- Su-Kam Power
- Hero steel
- Poggenamp
- Schneider Electric
- Uttam Bharat Electric
- Transformer & Rectifier
- Mangal Electric
- Kotsons
- Alstom
- BRG
- Emco
- Navkar Transcore
- Danke Electric
- Electrotherm
- Vilas Transcore
- Galaxy Stampings
- Enpay Transformers
- Pressmatic Engineering
- Elgi Equipments
- Kirlosker
- Lubi Pumps
- Wilo-Mather&Platt
- Sabar pumps
- Unnati pumps
- La-gajjar Pumps
- Weg
- Vijay Electric Ltd
- Bajaj Electrical
- Kryfs
- MKS Transformer
- Polmot motor
- Rajastan transformer
- SR Electrosteel
- Voltec

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