

MATS-2010H

Soft Magnetic Material Dynamic Hysteresisgraph System

Model MATS-2010H



Automatic measurement on hysteresis loop and demagnetization curve of permanent-magnet material, accurate measurement on magnetic characteristic parameters such as remanence B_r , coercive force H_cB , intrinsic coercive force H_cJ and maximum magnetic energy product $(BH)_{max}$.

Windows measurement software applied simply. The product conforms to China National Standards GB / T3217 - 92 and international standard IEC404 - 5.

Adopt ATS structure, users can customize different configuration as required: According to the size of measured sample to determine electromagnet size and correspondent test source power; Select different measuring coil and probe according to testing method; Determine whether selecting jig according to sample shape; Determine whether selecting heating system according to test requirement.

General Features

Software Features

Software Screen

Technical Data

Product Family

System Specifications

Test AlNiCo standard sample, measuring error on entire magnetic hysteresis cycle estimated: B: 1__ H: 1__

Parameters measured	$B_r(\%)$	$H_cB(\%)$	$H_cJ(\%)$	$(BH)_{max}(\%)$
Uncertainty (k=2)	1	1	1	2
Repeatability (constant temperature)	± 0.3	± 0.3	± 0.3	± 1

Instrument Specifications

TPS-2000H Test Power Supply

Output Voltage: 0 ~ $\pm 100V$

Output Current: $\pm 20A$ (maximum value)

Stability: superior to 0.05%

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LZ-210B Fluxmeter

DCT150 Electromagnet

Head Diameter: 150mm shrink to 80mm

Head Spacing: 0 ~ 50mm (continual adjustable)

Maximal Magnetic Field: 2.4T (head spacing 10mm, coil current 30A)

DCT200 Electromagnet

Range: 2.5, 5, 10, 20 mWb

Full Range Precision: 0.5%

Zero Shift: 2 μ Wb /30 seconds (2.5mWb)

LZ-210H Magnetometer

Range: 0.5, 1, 1.5, 3 T

Full Range Precision: 0.5%

Non-Linearity: \pm 0.2% (software correction)

DCT130 Electromagnet

Head Diameter: 130mm

Head Spacing: 0 ~ 50mm (continual adjustable)

Maximal Magnetic Field: 1.5T (head spacing 10mm, coil current 20A)

Head Diameter: 200mm shrink to 120mm

Head Spacing: 0 ~ 50mm (continual adjustable)

Maximal Magnetic Field: 2.4T (head spacing 10mm, coil current 40A)

DCT250 Electromagnet

Head Diameter: 250mm shrink to 150mm

Head Spacing: 0 ~ 50mm (continual adjustable)

Maximal Magnetic Field: 2.7T (head spacing 10mm, coil current 80A)

PC6011 A/D D/A card

A/D Conversion: 12Bit, 32 channels

Conversion Time: < 10 μ s

Conversion Accuracy: 0.05% (full range)

D/A Conversion: 12Bit, 2 channels

Setup Time: < 10 μ s

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Add :Floor 16, Jinyuan plaza, # 57 Hubin nan Road, Xiamen, CHINA 361004

Tel : (86)592 2295387 (86)592 2217138 Fax: (86)592 2207122

Email : yingli@magnets.com.cn or mag@e-magnet.cn