

MATS-2010SD

Soft Magnetic Material Dynamic Hysteresisgraph System

Model MATS-2010SD



Automatic measurement on basic magnetization curve and magnetic hysteresis loop under static state of soft magnetic material, accurate measurement on static magnetic characteristic parameters such as initial permeability μ_i , maximum permeability μ_m , saturation magnetic induction B_s , remanence B_r , coercive H_c and hysteresis losses P_u .

Windows measurement software applied simply. It conforms to China National Standards GB3657 - 83, industry standard SJ / T10281 - 91 and international standard IEC60404 - 4.

In accordance with measuring principle of ballistic method, combine computer control technology, A/D and D/A, replace conventional ballistic galvanometer with electronic integrator, realize analog ballistic method measurement under microcomputer control, can completely eliminate non-instant error caused by ballistic galvanometer in classical ballistic method, with high measurement accuracy, fast speed and good repeatability, can eliminate the influence of various artificial factors, and supply reliable basis for research on material magnetization process.

General Features

Software Features

Software Screen

Technical Data

Standard Package

Operate under Windows 95 / 98, Windows 2000 / XP operating systems, conform to Windows software specification, visual and simple operation.

Full automatic control, intelligent identification, user intervention unnecessary in entire testing process.

Sampling waveform and instrument status under real-time monitoring, and can be stopped at any time.

The effective sectional area and length of magnetic path of samples can be calculated according to the overall dimension of samples.

Automatic detection on sample test condition, facilitate users to test unknown samples.

File system adopts database format, can directly print or output test result to Excel form.

Powerful file management functions: data saving, deletion and removal.

Data files contain complete sampled data, sample parameters, instrument parameters and testing schemes, adopt text format, can be conveniently typed into other software.

Display B (H) magnetization curve, B (H) magnetic hysteresis loop or μ (H) permeability curve, and can display coordinate information of every data point on curve.

Support various models of printers, test report accurately match printer sheet.

Print preview function, can conveniently regulate the size and edge distance of test report.

Test report can be directly printed, or generate JPG image file.

JPG image file can be sent directly through E-mail, or saved into disk.

Test reports contain complete curve diagrams, test results, test conditions and sample parameters. Both Chinese and English format can be adopted to facilitate adding user mark and enterprise name.

Multiple unit systems optional to satisfy the application habits of different users.