

MATS-2010M

Soft Magnetic Material Dynamic Hysteresisgraph System

Model MATS-2010M



Automatic measurement on dynamic hysteresis loop of soft magnetic (silicon steel) material under 50Hz, 60Hz, 400Hz and 1kHz, accurate measurement on dynamic magnetic characteristic parameters such as amplitude permeability μ_a , loss angle δ , total losses P_s , remanence B_r and coercive force H_c .

Windows measurement software applied simply. The product conforms to China National Standards GB / T3655 - 92, GB / T13789 - 92 and international standard IEC60404 - 6.

Analog source (bridge), frequency meter, ammeter, voltmeter and wattmeter are replaced through computer control and A/D sampling, entire testing process automatically completed.

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.

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 $I(t)$, $U(t)$ and $B(t)$ sampling waveform and $B(H)$ hysteresis loop, and coordinate message at every data point on the curve.

Multipoint cluster, can display $B(H)$ magnetic hysteresis cycle cluster, $B(H)$ magnetization curve, $\mu_a(H)$ permeability curve and $P_s(B)$ damage curve, and can display coordinate message at every data point on the curve.

$B(H)$ magnetization curve and $P_s(B)$ damage curve measured under different conditions can be combined on one drawing for comparative analysis.

Set up upper and lower limits according to μ_a , P_s , B_m , B_r , H_c and H_m , etc., qualify test result and determine through the color of data table.

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. To facilitate adding user mark and enterprise name.

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