

UNIVERSAL B-H CURVE TRACER®

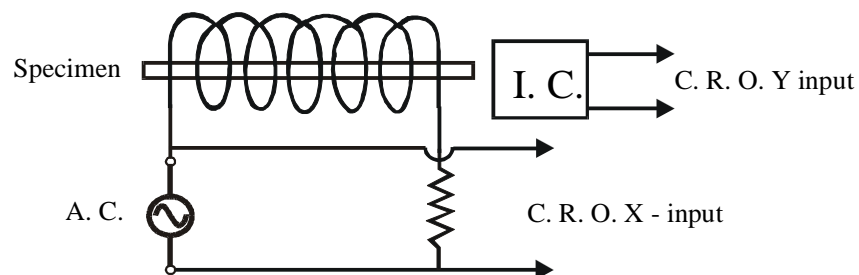
OBJECTIVE

1. Study of the **hysteresis curves** of transformer stampings, ferrites and other magnetic materials of different shapes and determination of their **energy losses**.
2. Study of the **hysteresis curve as a function of the magnetic field**.
3. Determination of **saturation, magnetization, remenance and coercivity** of magnetic materials.

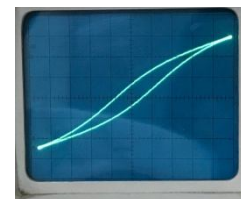


First time in INDIA we have developed technique to quickly trace B-H loop of ferromagnetic materials of **any shape** without winding primary and secondary coil on the sample. The present technique is specially designed for teaching and industrial applications. Universal B-H Curve Tracer is a self contained instrument and need any low cost C.R.O having X-Y gain. In this technique, B-H loop is formed by simply inserting the specimen in a magnetizing coil. It makes use of a specially designed integrated circuit probe to measure the flux density B. Any magnetic specimen, e.g. a 4-inch nail, soft iron wire or a hacksaw blade can be inserted in a magnetizing coil without disturbing the arrangement. Change of the specimen results in a different shape of the hysteresis curve.

The block diagram of the apparatus is shown below:



Transformer Core Sample



Ferrite Sample

INSTRUMENT

Setup consist of : Main Electronic Unit with builtin Power supply, Magnetizing Coil, Magnetic field sensing Probe, Holder for Magnetizing and Sensing Probe, Samples of different materials (4 nos.).

Manufacturers:



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