MAGNETIC MEASUREMENT SYSTEM

Digital Fluxmeter



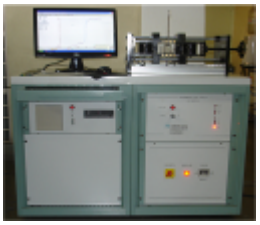
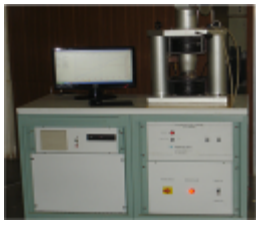
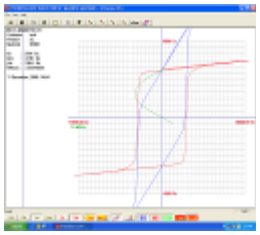


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Table Top Digital Fluxmeters

Flux meter has been the established standard for the measurement of magnetic flux density for determining total flux in a magnet or magnetic assembly. Its use was curtailed except in a few specialized areas because of many factors such as the difficulty in setting up light beam flux meter or ballistic galvanometers, limitations on the ohmic resistance of search coils, the requirement of some degree of operator skill in reading the flux meter etc. The development of the integrating type Digital Flux meter has virtually cancelled the hitherto negative aspects of fluxmeterology and has found a broad niche for many magnetic measurement applications.

The integrating type Digital Flux meter overcomes all the drawbacks and limitations associated with the earlier type of instruments. Search coil ohmic resistance is of no consequence insofar as instrument damping is concerned. Physical installation of the flux meter is simple with no special levelling requirements and ease of readability of the digital instrument is straightforward for any class of operator. The digital readout also enhances resolution and accuracy of readings.

Integrating type Digital Flux meter developed by us is capable of giving space or time varying flux values in any coil by integrating the induced emf.

Specifications of Digital fluxmeter:

1. Integrating type Digital Fluxmeter is capable of giving space or time varying flux values in any coil by integrating the induced emf.
2. The instrument has three and half digit LED display.
It has four ranges of measurements indicating flux values from 0.1 KMT
(Kilo Maxwell Turns) to $2*10^5$ KMT .
3. The four ranges are selectable with the help of push button switches.
4. The instrument has arrangement to minimize the drift and a reset push button to reset the displayed flux reading to zero.

5. The instrument offers analog voltage output proportional to the displayed value of flux that can be used for recording or data acquisition.
6. The instrument offers facility for connecting remote reset switch.
7. The instrument is table top type and works on 230 volts 50Hz mains supply.

The instrument has proven its worth in many fields of applications, for example in the development and quality control of permanent magnet motors, Meters, Magnetoes and other permanent magnet assemblies. The instrument proves most vital for building of test equipments like hysteresis loop tracer, magnet treater, lamination tester , etc.

Modified Digital Fluxmeter DFM-900 can measure A.C. Flux and has auto reset facility with adjustable timer.

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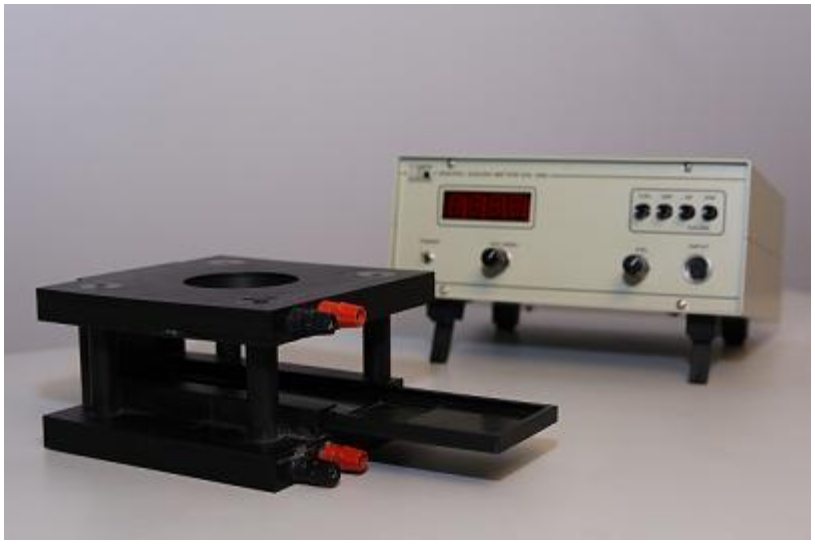
Helmholtz Coil

In the measurement of magnetic fields by means of Hall probes or measuring coils it is necessary to calibrate the instruments in a known magnetic field. Our standard field coil according to Helmholtz enables the production of a magnetic field calculable with high accuracy from the dimensions and the amperage. In series arrangement with an accurate ammeter field strengths of up to 800A/cm are produced. The field room is accessible both in axial and radial direction.

Helmholtz coils with fluxmeters are also useful in testing of magnets. Helmholtz coils give repeatable results as against the search coils due to which the magnets can be compared with more accuracy for their total flux and in tern their quality.



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