

OMEGA TYPE DB-2 Dynamic Demonstration Board has been designed specifically for the Demonstration of Hysteresis Curve. Without the aid of modern techniques, the display of Hysteresis loop can be a long and tedious demonstration and, in the past, the college laboratories have found it difficult to carry out such an experiment. Now the display of B-H loop has comparatively become a simple matter with OMEGA TYPE DB-2 Hysteresis Curve Demonstrator.

This unit is absolutely self contained with built in Power Supply and requires no accessories other than a Cathode Ray oscilloscope. Practical experience on this board carries great educative value for Science and Engineering Students.

OBJECT

- ☐ To demonstrate hysteresis curve.

FEATURES

- ☐ The board consists of the following built-in parts :
 1. 6V, 10V, 20V, 40V and 80V A.C., out of which any voltage can be selected with the help of selector switch depending on the gain available, at the horizontal circuit of the oscilloscope used for the display.
 2. Set of coils.
 3. E & I type laminations.
- ☐ The unit is operative on 230V $\pm 10\%$ at 50Hz A.C. Mains.
- ☐ Good Quality, reliable terminals/sockets are provided at appropriate places on panel for connections/observation of waveforms.

OTHER APPARATUS REQUIRED

- ☐ Cathode Ray Oscilloscope.

THEORY

Essentially the B-H loop display equipment comprises of a pair of air cored coils, the primary and secondary windings being so arranged that little or no coupling can occur unless a metallic core is inserted into the coils.

If an alternating current is applied to the primary coil, the current through this coil may be taken as proportional to the magnetising force H and the voltage induced across the secondary as proportional to the flux variation of $d\Phi/dt$ where N is the number of turns. However, the introduction of a capacitance resistance circuit across the secondary winding integrates the relation $d\Phi/dt$ and thus provides a supply proportional to B or N . Since the relationship between B and H varies for different Ferro-magnetic specimens, it is possible to contrast and compare the magnetic properties of various materials.

CIRCUIT DETAILS

Fig. 1 illustrates the basic circuit. It will be seen that the current through the primary coil is made to pass through a resistor R and that the potential difference thus produced is used to maintain the horizontal scan in the oscilloscope tube. The values of R and the applied e.m.f. will depend upon the degree of amplification which the oscilloscope can achieve in its horizontal input circuit. For the cheapest oscilloscope where-ever without any horizontal amplifier, the display can be achieved with an applied e.m.f. of nearly 80V and R of 1000 ohms. But for an oscilloscope which provides sufficient horizontal amplification the e.m.f. value could be reduced to a value as low as 5 volts.

The resistor capacitor network $R4$, $RV3$ and $C2$ makes up the integrator circuit and the time constant of this circuit can be adjusted by varying $RV3$. In the same way, the time constant of a phase correction network $RV2$ and $C1$ can be varied by adjustment $RV2$. In this respect, these should be identical and to achieve this, it is necessary to take into account the impedance of the X-input circuit of the oscilloscope. However, even the most simple instruments exhibit an impedance of the order of 2M ohms and the value of $RV2$ has been calculated in this assumption. Additional components used contains power ON-OFF switch, a fuse and a neon indicator operated from a L.T. Winding of the transformer. The transformer has been given different voltage tapings corresponding to 6V, 10V, 20V, 40V and 80V to allow the display unit to feed any oscilloscope either with no horizontal amplification or with large horizontal amplification.

Lab Manual Of Bh Curve

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