



MAGNETIC AMPLIFIER TRAINER

MODEL-MA100

This trainer has been designed with a view to provide practical and experimental knowledge of Magnetic amplifier.

FEATURES

Sigma's Magnetic Amplifier is a versatile self contained stand alone unit useful in the study and demonstration of the principle and working of a magnetic amplifier. It consists of saturable reactors, various windings, rectifiers. Here the load current is controlled by magnetic properly which in turn depends upon D.C. control current. Various experiments listed below can be performed. The unit is housed in a specially designed layout on front panel. It is strongly supported by a comprehensive instruction manual complete with theory and operating details.

SPECIFICATIONS

1. MAGNETIC AMPLIFIER : High gain, Vacuum impregnated with twin saturable reactors.
2. REACTOR : Saturable, made of torroidal core.
3. CORE : Torroidal, cold rolled grain oriental core with low loss & high permeability.
4. WINDINGS :
 1. Load (gate) windings wound individually on each saturable reactors.
 2. Control winding.
 3. Bias winding.
 4. Feedback winding, control bias and feedback windings are would on the two saturable reactors combined together.
5. RECTIFIER : Set of diodes.
6. TRANSFORMER : Power transformer.
7. LOAD CAPACITY : 100W (max.) facility for connecting external load.
8. EXPERIMENTS : The experiments that can be performed are:
 1. Series connected Magnetic Amplifier.
 2. Parallel connected Magnetic Amplifier.
 3. Self excited Magnetic Amplifier.
 4. Bridge type Magnetic Amplifier with positive feedback.
 5. Bridge type Magnetic Amplifier with negative feedback.
9. CONTROLS : Mains ON/OFF.
10. INDICATORS : Mains ON/OFF.
11. TEST POINTS : Provided at various terminations for connections & to observe waveforms/voltage.
12. POWER REQUIREMENT : 230V, +/- 10% AC, 50Hz, 1 phase.
13. STANDARD ACCESSORIES :
 1. Set of required patch cords.
 2. Detailed Instruction Manual.

In keeping view of SIGMA policy of continuous development and improvement, the Specifications may be changed without prior notice or obligation.

Sigma Trainers and Kits
E-113, Jai Ambe Nagar,
Near Udgam School,
Thaltej,
AHMEDABAD - 380054.
INDIA.

Phone(O): +91-79-26852427/ 26850829
Phone(F): +91-79-26767512/ 26767648
Fax : +91-79-26840290/ 26840290
Mobile : +91-9824001168
Email : sales@sigmatrainers.com
: sigmatrainers@sify.com
Web : www.sigmatrainers.com

Dealer:-