Product Code . DS-EE-11487

AC Circuit / Network Trainer

Description

Technical Features:-

• Experiment Board for analysis of the application of various electronic components in AC circuits and the use of DC motors

• It contains all the pre-assembled electronic components needed to construct the experiment circuits and divided into functional circuit blocks which can be interconnected and modified by means of supplied jumpers and connection cables

• Printed circuit board with protective treatment and mimic diagram

• 2 mm sockets for test points and connections

• Jumpers for quick circuit modification

• 8-pole female DIN connector for power supply unit

• Fault simulation

Training Programs:-

• Magnetic fields;

• Electrical and electromagnetic fields;

• The capacitive effect and the capacitors: the energy storage, the current as a function of the voltage applied to a capacitor;

• The inductive effect and the inductors: internal resistance measurement and experimental test of an inductor;

• AC resistive and capacitive circuits: the impedance as a function of the frequency. Verifying the voltage and current phase shift in a condenser;

• AC inductive circuits: the voltage and current phase shift in an inductance, voltage and current with sinusoidal input and the reactance calculation of a coil;

• The RLC circuit: the concept of circuit impedance, current and voltage measurement in RC, RL and RLC circuits;

• Series and parallel resonance: the resonant frequency measurement in parallel and series circuits, the Q factor of a series resonant circuit;

• AC power: active, reactive and apparent power; The transformer: no-load and under load tests and transformer ratio measurement;

• The autotransformer;

• DC electrical motors: the speed as a function of the applied armature voltage, and the current as a function of the applied load;

• The electrical motor as an electrical generator.

• Type : Pannel

• Power Source: 220V ~240V AC 50 Hz, 1 Phase

• Standard accessories with printed operation manual

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