Ac Circuit And Network Trainer

Model: LTS80

Hotline

01737252881

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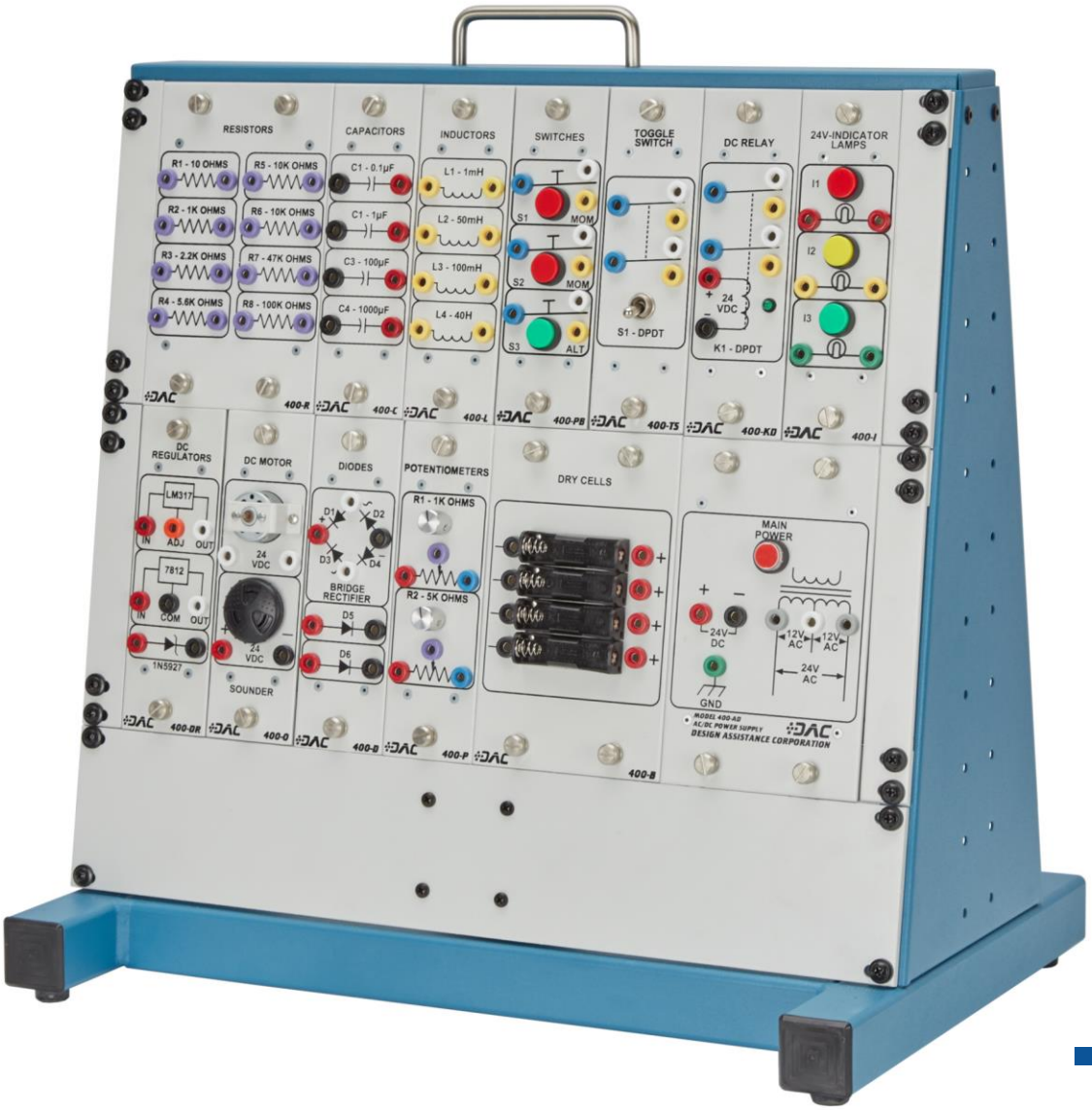

Description **Model: LTS80**

Technical Parameter:
The Trainer must have at least the following Facilities:
– Study the characteristics of pure resistive, pure inductive, pure capacitive circuit as individual, series, parallel and series parallel connected condition.
– Measuring current and voltage in a R-L, R-C and R-L-C series circuit, parallel circuit and drawing vector diagram.
– Determining the value of resistance, inductance, capacitance of R-L, R-C, R-L-C series circuit, Parallel circuit and drawing vector diagram.
– Determining the effective or AC resistance of a coil.
– Measuring the active power, reactive power, apparent power of an electrical load and drawing Power Triangle.
– Measuring the energy consumed by electric load.
– Determining power factor of R-L, R-C R-L-C series and parallel circuit.
– Determining phase sequence of 3-phase voltage EMF source.
– Measuring line and phase voltage & current of 3-phase star connected inductive load and capacitive load.
– Measuring line and phase voltage & current of a 3-phase delta connected inductive load and capacitive load.
– Measuring three phase power by 3-wattmeter method and 2- wattmeter method of a balanced 3-phase star connected and delta connected load.
– Measuring Phase voltage, phase current, line voltage, line current, neutral point voltage, neutral current, power of a 3φ - 4 wire balanced and unbalanced star connected load. and drawing vector diagram.
– Measuring resonant frequency, Q - factor of R-L-C series circuit and parallel circuit.
– Study the characteristics of PFI device and improving power factor of a plant or a load.
– Special Protection system of 440 V direct short-circuit condition
– Three phase supply indication system
Power Supply:
– Power source: Input voltage 1φ = 200-240V AC, 50Hz; 3φ = 370 - 440V AC;
Output Capacity:
– Resistive Load: 220V, Capacity 1- φ = 1000 W (min); 3- φ = 1000W (Min);
– Inductive Load: 200V-240V, 50 Hz. Capacity 1- φ = 120VAR-300VAR, 3φ = 350 VAR;
– Capacitive Load: 220V, 50 Hz., Capacity 1- φ = 200VAR, 3- φ = 200 VAR;
Accessories: Standard accessories, Manual, experiment book
– Safety & Security: Over voltage, over current and earth fault protection must be ensured for the above-mentioned AC Circuit and Network Trainer

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