Price =135,900/- MoQ=5 Units

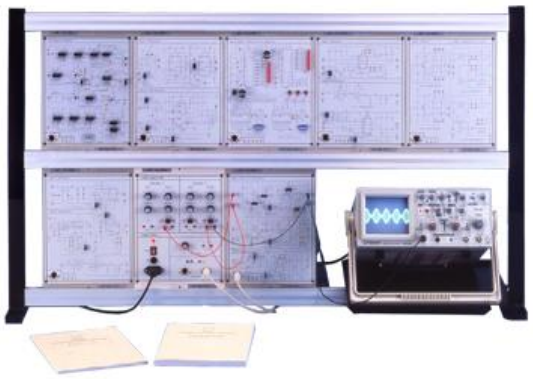
Power Electronics Trainer PE-1000

MAIN FEATURES:

The PE-1000 offers experiment for fundamental-level topics of a Power Electronics course. It enables the student to acquire a clear experimental view of the basic concepts and, further, they will be familiar with the operative aspects of the work in the Power Electronics laboratory.

List of Modules

- DC Power Supply Module,
- SCR, DIAC, TRIAC IGBT Module
- Uncontrolled Rectifiers Module
- BUCK Module
- BOOST Module
- BUCK BOOST Module
- FLY BACK Module
- H BRIDGE Module
- Controlled Rectifiers Module
- POWER CONTROL Module
- MOSFET DRIVER Module
- SCR DRIVER Module
- APPLICATION MODULE
- LOAD Module



Experiments:

Key Features

AC-DC / DC-AC / DC-DC / AC-AC

Features:

- Using SCR, TRIAC, IGBT, and MOSFET to construct power conversion experiments.
- Including AC to DC experiments (rectification)
- Including DC to AC experiments (inversion)
- Including DC to DC experiments (chopping)
- Including AC to AC experiments (cyclo conversion)
- Including application experiments such as buck switching power supply, etc...
- Modularized design providing the most flexible requirement of the system.
-- The component symbol, value, and functional diagram are clearly printed on each module panels.
- Equipment is compatible with Power Electronics System.

List of experiments:

- Three-Phase source voltage measurement
- SCR characteristic and measurement
- TRIAC characteristic and measurement
- DIAC characteristic and measurement
- IGBT characteristic and measurement
- Trigger pulse measurement
- Single-Phase Half-Wave uncontrolled rectifier
- Single-Phase Full-Wave uncontrolled rectifier
- Single-Phase Half-Wave controlled rectifier
- Single-Phase Full-Wave controlled rectifier

-- IGBT characteristic measurement
- DC PWM controller
- Single-Quadrant DC chopper
- SCR DC chopper
- Single-Phase PWM controller
- Single-Phase inverter
- Power MOSFET characteristic measurement
- Buck switching power supply
- Boost switching power supply
- Buck-Boost switching power supply
- Fly back switching power supply

Experiments:

- The trainer includes the basic modules with experimental circuits. It offers the beginner complete courses of Power Electronics.
- PE-1000 is equipped with power supply and signal unit. Students only have to adopt the oscilloscope to complete various
- System modularity maximizes flexibility and variety for experimentation, and allows possibility for expansion and customization.