

Characteristics & Applications

ME 500 Analog / Discrete Component Trainer

Objective : To study the characteristics and applications of the basic semiconductors. More than 15 experiments can be performed to plot characteristics of PN Junction Diode, Zener Diode, LED, experiments based on Transistor Amplifiers, LCR resonance circuits, Rectifier Circuits, Clipping & Clamping circuits, Resistance in series & parallel circuits, charging & discharging of a Condenser, RC circuits & Filter circuits etc.



Technical Specifications :

Output voltages (Regulated) : 0-3V DC, 0-30V DC, 5V DC
Output voltage (AC) : 10-0-10V AC/500mA
Housed in PVC cabinet, symbol diagram printed, connections of various components (PN Junction Diodes, Zener Diodes, Resistances, Potentiometers, Capacitors & Transistors etc.), all important outputs & test points brought at Glass epoxy (PCB) front panel. Also provided with patch chords & instruction manual
Optional Accessories : Dual Trace CRO 20MHz (ME 3020), Function Generator 0.1Hz~5MHz (ME 957) & Digital Multimeter,

ME 510 Linear IC Trainer

Objective : To study the characteristics and applications of the IC 741 & IC 555. More than 15 experiments can be performed.



Technical Specifications :

Output voltages (Regulated) : 0-2.5V DC (2no's), $\pm 15V$ DC, 5V DC
Meters (Digital) : 0-2V DC/0-20V DC (Dual Range)
Housed in PVC cabinet, symbol diagram printed, connections of various components (IC 741, IC 555, 16 Pin IC Zip sockets, Resistances, Capacitors, Zener Diode, PN Junction Diode, LED's and Potentiometers.), all important outputs & test points brought out at Glass epoxy (PCB) front panel.
Also provided with patch chords & instruction manual

ME 511E Digital IC Trainer

Objective : To verify the Truth Tables of Basic Logic Gate, Combinational Logic Circuits & Sequential Logic Circuits, Flip Flops, Shift Registers, Multiplexer, De-Multiplexer & Counter Circuits



Technical Specifications :

Output voltage (Regulated) : 5V DC
Logic Inputs : 10 No's. logic '0' & logic '1'
(Through Switches)
Output indicators : 10 No's.
Clock : 1Hz Monoshot

Housed in PVC cabinet, symbol diagram printed, connections of various IC's/components (NAND Gates, NOR Gates (4 No's each), AND Gates, NOT Gates (2 No's each), RS&D Type Flip Flop, Shift Register, Multiplexer, De-Multiplexer & Counter).
All important outputs & test points brought out at Glass epoxy (PCB) front panel. Also provided with patch chords & instruction manual.

ME 511 Digital IC Trainer

Objective : To verify the Truth Tables of Basic Logic Gate, Combinational Logic Circuits & Sequential Logic Circuit.



Technical Specifications :

Output voltage (Regulated) : 5V DC
Logic Inputs : 8 No's. logic '0' & logic '1'
(Through Switches)
Output indicators : 10 No's.
Clock : 1Hz, 100Hz & 1KHz

Housed in PVC cabinet, symbol diagram printed, Connections of various IC's/components (NAND Gates, NOR Gates, OR Gates, AND Gates, EX-OR Gates (4 each), NOT Gates (6 No's), JK Flip Flop (2 No's), RS Flip Flop, D Flip Flop (1 No. each), all important outputs & test points brought out at Glass epoxy (PCB) front panel.
Also provided with patch chords & instruction manual