

ELECTRICAL WIRING INSTALLATION TRAINER

EM-58503

EDU-LABS



The system deals with standard installation circuits for all general service lamps and fluorescent lamps in conjunction with our training panel system. This requires no tools so the trainee can concentrate entirely on putting his accrued knowledge into practice. Particular emphasis is placed on adherence to the applicable regulations governing electrical installations.

Safety sockets and Test Lead Set guarantee optimal low-voltage range protection against personal injury during the experiments.

Due to the vertical arrangement of the experimental panels, the experimental set-up can be seen from a far distance and can be adapted step by step to the course of the lessons or lectures.

The experiments permit practice-oriented, hands-on training to be carried out, thus assuring the trainees of the proficiency needed to handle the tasks and the equipment found in this field. The training panels and functional units with block circuit diagrams and signal diagrams permit clear and understandable assembly of the experiment circuits. Beginning with the basic circuits, the student proceeds to tackle more complex circuits in electrical system using a proven step-by-step method designed for didactic results. And of course, the model behind the entire system is the circuitry used in industrial applications.

Experiments cover the following topics:

1. Single phase AC circuits
2. Various Lamp And Appliances Circuits
3. Standard Installation Circuits
4. Switches And Push Buttons Circuit
5. Fluorescent Lamps Circuits
6. Staircase Lighting circuits and Time-Delay Switching
7. Typical electrical signal is observed and measurement

SINGLE PHASE POWER SUPPLY MODULE
EM-10-09-02



- Modular Design
- Power Input: 1 Phase 240V, 13A, 50Hz via input 3 pin power cord UK Type.
- Protection: Earth leakage circuit breaker and miniature circuit breaker
- Complete with START and STOP Push Button
- Unit Type : Panel H1
- Terminals: 4mm Safety Sockets (Color Coded)

CURRENT FLOW MODULE
EM-10-04-02



Input: 240VAC, 50Hz 1-Phase

ON/OFF SWITCH (SINGLE POLE)
EM-10-06-01



Input: 240VAC, 50Hz 1-Phase
 Single Pole 1 Gang
 Switch type: Disconnecting switch

CHANGE-OVER SWITCH (LEFT)
EM-10-06-02



Input: 240VAC, 50Hz 1-Phase
 Switch type: Two-way Switch

MULTIPLE SWITCH

PUSH BUTTON SWITCH

EM-10-06-03

Input: 240VAC, 50Hz 1-Phase
Switch type: Two-circuit Switch

EM-10-06-05

Input: 240VAC, 50Hz 1-Phase
Switch type: Push button Switch

CROSS-OVER SWITCH
EM-10-06-06


Input: 240VAC, 50Hz 1-Phase
Switch type: Intermediate switch

CHANGE-OVER SWITCH (RIGHT)
EM-10-06-07


Input: 240VAC, 50Hz 1-Phase
Switch type: Two-way Switch

**SOCKET OUTLET
EM-10-06-09**



Socket Outlet
Input: 240VAC, 50Hz 1-Phase
Operation: Voltage connector with ground

**DIMMER
EM-10-05-08**



Input: 240VAC, 50Hz 1-Phase

**ANALOG TIMER SWITCH
EM-10-07-04**



Input: 240VAC, 50Hz 1-Phase

**STAIRCASE LIGHTING TIME-DELAY SWITCH
EM-10-07-06**



Input: 240VAC, 50Hz 1-Phase
Automatic Staircase Relay 240vac
Relay coil: 240VAC

LOAD BULB MODULE
EM-10-10-02



Input: 240VAC, 50Hz 1-Phase
Load Bulb, AC 240V, 50Hz 1-Phase X 4 Unit

LED DOWNLIGHT
EM-10-10-03



Input: 240VAC, 50Hz 1-Phase
LED Light AC 240V, 50Hz 1-Phase

HALOGEN DOWNLIGHT
EM-10-10-04



Input: 240VAC, 50Hz 1-Phase

INCANDESCENT LAMP
EM-10-10-05



Input: 240VAC, 50Hz 1-Phase
Lamp type: Incandescent

**COMPACT FLUORESCENT LAMP
EM-10-10-06**



Input: 240VAC, 50Hz 1-Phase
Lamp type: Compact Florescent With Ballast

**FLUORESCENT LAMP HOLDER (LEFT)
EM-10-10-07**



Input: 240VAC, 50Hz 1-Phase

**FLUORESCENT LAMP STARTER & CAPACITOR
EM-10-10-08**



Input: 240VAC, 50Hz 1-Phase
Nominal Capacitance: $4\mu\text{F}$ & $2\mu\text{F}$

**MAGNETIC BALLAST
EM-10-10-09**



Input: 240VAC, 50Hz 1-Phase

**ELECTRONIC BALLAST
EM-10-10-10**



Input: 240VAC, 50Hz 1-Phase

**FLUORESCENT LAMP HOLDER (RIGHT)
EM-10-10-11**



Input: 240VAC, 50Hz 1-Phase

**FLUORESCENT LAMP BULB
EM-10-10-12**



Input: 240VAC, 50Hz 1-Phase

**SINGLE PHASE POWER ANALYSIS METER
EM-30-13-14**



Input: 240VAC, 50Hz 1-Phase
Display Type: Digital LED Display
Measuring Function: Voltage V, Current A,
Active Power KWH, Reactive Power VAR,
Apparant Power VA, Power Factor PF
Measuring Range : Voltage : 0 ~ 250V
Current : 0 ~ 5A

**SINGLE PHASE KILOWATT HOUR METER
EM-30-13-18**



Input: 240VAC, 50Hz 1-Phase
Type: Moving coil
Speed: 1200 Turns/1kw/Hour
Voltage coil: 240 VAC
Current coil: 5A/15A
Accuracy: Class 1.5

**4mm SAFETY STACKABLE TEST LEADS SET &
19MM LINK SET EM-10-10-11**



Leads are capable of 10A current safety plugs.
Safety Terminal Socket : 4mm
Length: 25cm, 50cm & 100cm
Color: Red, Yellow, Blue, Black & Green

**EXPERIMENTAL TABLE
EM-30-16-01-02**



5' Standard Desktop
Dimension:
Length : 1500mm
Width : 800mm
Height : 850mm
3 Layer Drawer (Optional)

**EXPERIMENT PANEL FRAME
EM-30-16-02-02**



Din Standard A4 With Two Shelves
Side Frame: T Shape
Dimension:
Length : 1450mm
Width : 20mm
Height : 300mm

MANUAL

1. Manuals written in English that cover introduction to the system, operational procedures and experiments procedures provided.
2. Softcopy & hardcopy of Lab sheet for all experiments.

Note: Layout and specification may change without prior notices for products continuous development and improvement process.