

Introduction

Lighting Installation – 46851 studies the topics related with the lighting plants in the electric civil installation. It has a modular structure and it consists of educational panels installed on a vertical frame. The modularity of this educational system grants to the students a direct and immediate approach to the topics, offering the opportunity to study various subjects performing several experiments as following

Features

- 01 Facilitates easy and safe wiring by students due to use of 4mm sturdy Shrouded banana path cords & shrouded socket arrangements.
- 02 All Panels are mounted on finely painted sturdy base frame with easy Panels interchangeability.

Panels Provided

SN.	Name of Panel	-Order Code	Qty.
01	Aluminum Lighting Installation trainer Rack	-69700	01
02	Single Phase Power supply	-69501	01
03	Intermediate Switch	-69503	01
04	Intermediate Switch and Two-way switch	-69504	01
05	Light push button	-69505	01
06	Bell door opener Pushbuttons	-69506	01
07	Single Phase Transformer	-69511	01
08	Incandescent lamp with lamp holder	-69514	01
09	Stepping Relay	-69535	01
10	Staircase Light Timer	-69536	01

Accessories Provided

SN.	DescriptionQ	tv.
	Shrouded connecting leads 4mm 50cm Red05	
02	Shrouded connecting leads 4mm 50cm Black05	5

List of Experiments

SN.	Name of Experiment	Panels Required
01	Single-point controlled lighting plant with socket	69501, 69505, 69514
02	Switch-controlled two-lamps lighting installation	69501, 69505, 69514
03	Two-point controlled lighting installation	69501, 69504, 69514
04	Three-point controlled lighting installation	69501, 69504, 69514
05	Four-point controlled lighting installation	69501, 69503, 69504, 69514
06	Circuit breaking relay-controlled lighting installation -	69501, 69511, 69514, 69535
07	Switching relay-controlled lighting installation	69501, 69511, 69514, 69535
08	Time relay-controlled lighting installation	69501, 69506, 69514, 69536
09	Hot-cathode fluorescent lamp installation	69501, 69505, 69514

Note: Specifications are subject to change.

Image: State Stat

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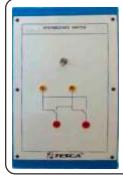
1. SINGLE PHASE POWER SUPPLY Order Code - 69501

Single Phase Power Supply is designed to familiarize students with various methods of protection of power circuits. It has been made with safety and protection in mind and with strong insulation

Procedure

01 Connect the Input AC Voltage at Input

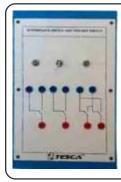
02 Switch ON the Two Pole MCB Terminal 03 Turn the key lock switch 04 Check the light indication 05 Observe the Output at Output Terminal



2. INTERMEDIATE SWITCH Order Code - 69503

Switch modules come in a wide variety and are designed to familiarize students with various methods of switching voltages, currents and loads. They have been made with safety and protection in mind and with strong insulation. An intermediate switch is used to control

something from more than one location. The modules is provided with one switch. The intermediate switch is used where 3 or more switch control one light at a time.



3. INTERMEDIATE SWITCH AND TWO-WAY SWITCH Order Code- 69504

Switch modules come in a wide variety and are designed to familiarize students with various methods of switching voltages, currents and loads. They have been made with safety and protection in mind and with strong insulation. This allows a single light to be turned on or off from and of the switches. The module is provided with 2

two-way switches, and, one intermediate switch

Procedure

- 01 Make the connection as per connection diagram
- 02 Use the intermediate switch as perdesired output in the circuit.



4. LIGHT PUSH BUTTON Order Code - 69505

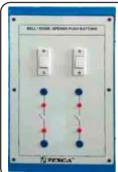
Switch modules come in a wide variety and are designed to familiarize students with various methods of switching voltages, currents and loads. They have been made with safety and protection in mind and with strong insulation. Light Push Button switch is a switch most commonly used to operate electric lights permanently connected equipment, or

electrical outlets.

This module is provided with a single pole switch.

Procedure

1. When we push the switch then both the contact of terminals are connected.



5. BELL / DOOR OPENER PUSH **BUTTONS**

Order Code – 69506

Switch modules come in a wide variety and side terminal are designed to familiarize students with various methods of switching voltages, currents and loads. They have been made with safety and protection in mind and with strong insulation. This module is supplied with 2 switches.

Procedure

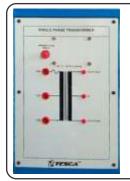
- 01 When we push the right-side button than make / connect the contact of right-side terminal.
- 02 When we push the Left side button than make / connect the contact of Left side terminal.

Note: Specifications are subject to change.

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6. SINGLE PHASE TRANSFORMER

Order Code – 69511 Single Phase Transformer is meant to step down the voltage at the secondary side. This module has the one transformer in which two different input voltage range. We apply only one input at a time and observe the center tap output. For protection we use the primary fuse 600ma. The module has been made with safety and protection in mind and with

The Incandescent light appears yellowish

Compared to fluorescent incandescent

lamps produce light from heat. The

fluorescent lamp is a low-pressure

mercury-vapor gas-discharge lamp that

uses fluorescence to produce visible light. The module has two incandescent lamps and one fluorescent lamp with starter. The

strong insulation

Procedure

- 01 Apply the 230 V AC input at input terminal
- Check the output at secondary 12-0-02 12 Volt at 2.21 Amp / 50 VA

module has been made with safety and protection in mind and strong insulation.

Procedure

01 Apply the input AC 220V at input (L-N)

- 02 Check the incandescent lamp is glow
- 03 Make the circuit as connection diagram

Procedure

01 Apply the 12 V AC input at input terminal

8. STEPPING RELAY Order Code 69535

7. INCANDESCENT AND

FLUORESCENT LAMP

Order Code - 69514

A stepping relay or stepping switch also know uni selector, electro-mechanical device that switches an input signal path to one of several possible output paths, directed by a train of electrical pulses.

Applied Voltage: 12VDC/ 24VDC/ 240VAC Current: 5A

CORONAL CONTRACT

9. STAIRECASE LIGHT TIMER Order Code 69536

A staircase timer is an electrical switch used to control lighting on a staircase, corridor or lobby. A single action turns on the lights and they remain on for long enough to ascend or descend the stairs. The lights then turn themselves off automatically.

Automatic switch for staircase lighting control with adjustable timing, 110 - 230

Vac, 10 A.

Adjustable Range: 30s - 20 min Type of contact: No contact Power Reserve: 3 years

Procedure

01 Apply the input AC 220V at input (L-N) 02 Make the circuit as connection diagram.

10. ALUMINUM FRAME - MODULAR PANELS Order Code - 69700.

Aluminum Lighting Installation trainer Rack madeup aluminium profile size 40×40mm, foldable and light in weight 10 panel setup can be interchange convidently to perform experiments. Dimention Length 1100 × Hieght 1000 × Depth 350mm.

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