



Introduction

This system studies the topics related with the hotel and hospital devices in the electrical civil installation. It has a modular structure and it consists of didactic panels installed on a vertical frame. The modularity of this didactic system grants to the students a direct and immediate approach to the topics, offering the opportunity to study various subjects performing several experiments.

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 Hotels/Hospital trainer Rack	69700	01
02	Single Phase Power supply	69501	01
03	Light Push Button	69505	01
04	Universal Socket	69508	01
05	Single Phase Transformer (24V)	69511	01
06	Latching Relay	69512	01
07	Bells and Buzzer	69516	01
08	Signalling Lamps	69520	01
09	Nurse Board	69554	01
10	Patient Push Button	69555	01
11	Speaker	69603	01

Accessories Provided

SN.	Description	Qty.
01	Shrouded connecting leads 4mm 50cm Red	05
02	Shrouded connecting leads 4mm 100cm Red	05
03	Shrouded connecting leads 4mm 50cm Black	05
04	Shrouded connecting leads 4mm 100cm Black	05

List of Experiments

SN.	Name of Experiment	Panels Required
01	Installation for Audience Request	69501, 69508, 69603
02	Installation for Hotel	69501, 69505, 69511, 69512, 69516, 69520
03	Installation for Nurse Calling	69501, 69554, 69555

Note: Specifications are subject to change.

DETAILS OF MODULES



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. 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.



3. UNIVERSAL SOCKET Order Code - 69508

Universal Socket is meant to be used for different types of plugs. They have been made with safety and protection in mind and with strong insulation. Safety Terminal and insulated panels are used throughout. The socket has a earth contact also. Can be used for the following types of plugs:

Neutral, Phase, Ground of the socket.

- 02 Green Terminal are indicated as a ground
- 03 Red Terminal are indicated as a Phase
- 04 Black Terminal are indicate as a Neutral

Procedure

- 01 Each Terminal are connect with respect to



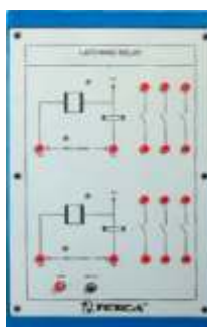
4. SINGLE PHASE TRANSFORMER Order Code - 69511

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 600 mA. The module has been made with safety and protection in mind and with

strong insulation.

Procedure

- 01 Apply the 230 V AC input at input terminal
- 02 Check the output at secondary 24-0-24 Volt at 2.21Amp / 50VA



5. LATCHING RELAY Order Code - 695012

Latching Relay works with the use of two coils. These coils control the relay. It generates a magnetic field. As the circuit generates electricity, the switch pushes from one side to the other. The module has two relays with bistable operating contacts. They have been made with safety and protection in mind and are ruggedly built with strong insulation.

Safety Terminal and insulated panels are used throughout

Procedure

- 01 Apply input 24V AC at input terminal
- 02 Initially One relay is on condition than
- 03 Press the set switch than change the position of relay is off condition and other (second) relay is on condition
- 04 Again press the reset switch than change the position of above relay

Note: Specifications are subject to change.

DETAILS OF MODULES



6. BELLS AND BUZZER

Order Code-69516

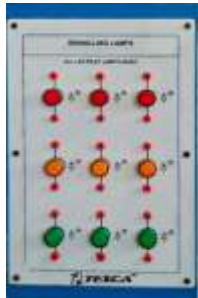
Bell & Buzzer module has one bell switch and one buzzer switch. These are Low voltage hardwired push button switches. The module has been made with safety and protection in mind and with strong insulation.

Procedure

01 Apply the input 230V AC at input

terminal

- 02 Switch ON the first switch than BELL is working condition and hear the sound of BELL
- 03 Switch ON the second switch than Buzzer is working condition and hear the sound of Buzzer



7. SIGNALLING LAMPS

Order Code - 69520

A signal lamp is a visual signalling device for communication. Traffic lights, are signalling devices positioned at road intersections, pedestrian crossing and other locations to control competing flows of traffic. The module signalling lamp has 9 pilot lamps. The module has been made with safety and protection in mind and

with strong insulation.

Procedure

- 01 Apply the 24V AC at any terminal of signalling lamp
- 02 See the effect of the indicator is on which the input applies



8. NURSE BOARD

Order Code - 69554

This is a perfect product for hospitals and clinics for attendant or Nurse calling. On press of call button from patient's room, the room number is lit up at the central display via wireless link. The RESET button when pressed will switch off the number from the display unit. No wiring required from each room to the central display nurse control station.

Wall unit for call and reset is available with a hanging cord switch that can be kept near patient's bed. Regular remote with call facility is also available in which the reset option is on the display screen

Material: ABS

Number of Buttons:1

Use Frequency band: 433.92MHz

Use battery: 1-23A-12V alkaline battery

Calling type: wireless



9. PATIENT PUSH BUTTON

Order Code- 69555

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 switches a switch most commonly used to operate electric lights permanently connected equipment, or

electrical outlets.

Button Life: about a million times

This module is provided with a single pole switch.

- 01 When we push the switch then both the contact of terminals are connect.

10. SPEAKER

Order Code - 69603.



11. ALUMINUM FRAME - MODULAR PANELS

Order Code - 69700.

Aluminum Hotel/Hospital Installation trainer Rack made up aluminium profile size 40x40mm, foldable and light in weight 10 panel setup can be interchange conveniently to perform experiments. Dimension Length 1100 x Height 1000 x Depth 350mm.

Note: Specifications are subject to change.