



**OMEGA TYPE 20 012** Radial and Ring Main Distribution System is specially designed to illustrate the working phenomenon of Distribution System configured as Radial and Ring Main Distribution System. Distribution System is the part of electric power system which connects the high voltage transmission networks to the low voltage consumer service points. Distribution Systems should be designed in a way that Voltage variation at consumer terminals must be maintained with in  $\pm 5\%$ .

**OMEGA TYPE 20 012** provides complete learning content to develop Ring and Radial Distribution System manually. The Voltage regulation is studied by performing experiments & comparison. It includes inbuilt DC Variable Supply with adequate protections, precise digital meters are used along with separate sections for Radial and Ring Main Distribution System so that students can understand the significance of these systems in a proper sequence.

#### OBJECT

- 01 Analysis and Study of Radial Distribution network
- 02 Analysis and Study of Ring Main Distribution network

#### FEATURES

- 01 Digital 3 nos. DC Voltmeter & 3 nos. DC Ammeter for accurate measurement
- 02 Separate connection for Radial & Ring Main System
- 03 Inbuilt DC Variable Supply
- 04 Isolation Transformer is provided for safe operation

- 05 Exclusive and attractive designed panel
- 06 Provided with inbuilt lamp load holders
- 07 Diagrammatic representation for the ease of connections

#### TECHNICAL SPECIFICATIONS

Mains Supply : 230V  $\pm$  10% VAC, 50Hz

#### 01 Two Inbuilt Isolated DC Output Supply

Rated Voltage : 0-220V  $\pm$  10% (Variable)

Rated Current : 1A

#### 02 Transformer

Rating : 0.2kVA

Primary Voltage : 230V

Secondary Voltage : 200V

#### 03 Variac

Input : 230V

Output : 0-270V

Current : 2A

#### 04 Digital meter used 3½ digit

DC Voltmeter

(3 Nos.) : 300V

DC Ammeter

(3 Nos.) : 0-2A

MCB : 2A (SPN)

05 Weight : 42kg (approx.)

06 Dimensions : L800 x H600 x D350 (mm)

#### LIST OF ACCESSORIES

- 01 Shrouded Patch Cord 4mm Length 50 Red... 17
- 02 Shrouded Patch Cord 4mm Length 50 Black 17

We are committed to the continuous development of our products, and therefore reserve the right to amend specifications without prior notice.

## OMEGA ELECTRONICS

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