



OMEGA TYPE 20 102 DC Machine Lab is a vital training board it helps to study the basic concepts and functioning of DC Motors and Generators. With this Training Board one can perform experiments such as speed Control, Torque-Load Characteristics, N-V Characteristics, N-I Characteristics etc. The Unit is very useful for Electrical Engineering Labs.

OBJECT

- 01 Study of no load characteristics (O.C.C.) of dc shunt generator
- 02 Study of load characteristics of dc shunt generator
- 03 Speed control of separately excited dc motor by armature voltage control.
- 04 Speed control of separately excited dc motor by field current control.
- 05 Study of load characteristics of separately excited dc motor and to draw n-ia graph
- 06 Study of self excited dc shunt motor

FEATURES

- 01 DC Shunt Machines
- 02 Shaft Coupling arrangement
- 03 Exclusive and rugged designed panel
- 04 Stand alone operation
- 05 Designed by considering all the safety precautions
- 06 High quality meters
- 07 Diagrammatic representation for the ease of connections.
- 08 Provided with an extensive manual

TECHNICAL SPECIFICATIONS

The Board Consists of

- 01 AC/ DC Operating Voltage Required:
 - Input mains : 230V AC \pm 10% 50Hz
 - Fixed DC Output : 200V
 - Variable DC output : 0-200V
- 02 DC Machines two nos.
 - Both the machines are flexibly coupled and mounted on "C" channel base.
 - Type : DC Shunt
 - Rating : 300W
 - RPM : 1500 (No Load)
- 03 Digital Meters 3½ Digit used
 - DC Voltmeter : 300V (2 Nos.)
 - DC Ammeter : 2A (2 Nos.)
 - DC Ammeter : 5A (2 Nos.)
- 04 Dimensions panel : L600 x H450 x D350mm
- 05 Dimensions MG Set : L800 x H300 x D250 mm
- 06 Weight panel : 12Kg (Approximate)
- 07 Weight MG Set : 106Kg. (Approximate)

LIST OF ACCESSORIES:

- 01 Shrouded 4mm connecting leads length 50/100cm....34.
- 02 Digital Tachometer - - - - - 01.

OTHER APPARATUS REQUIRED:

- 01 DC Power supply input 230V output fixed DC 200V. variable DC 0 - 200V. OMEGA TYPE 20 201.
- 02 Load upto 1.2KVA OMEGA TYPE 20 202
- 03 Rheostat 1K, 0.5Amp.

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