



# Field Test of DC Series Machine

Nvis 7022



**Nvis 7022 Field Test of DC Series Machine** is an important training system for Electrical Machine Laboratories. It is designed to provide the thorough study of DC Series Machine under different excitation and loading conditions. Field test is the method to calculate the efficiency of DC Series Motor and Generator at any desired load. Nvis 7022 also includes experiments such as Open Circuit Characteristic, Internal and External Characteristic of DC Series Generator in an easiest manner.

Nvis 7022 consists of good quality digital panel meters to obtain precise results. Separate terminals are provided to connect the optional accessories externally to the control panel with ease. Control panel comes with full descriptive mimic diagram for comprehensive learning of DC Series Machine. All the necessary protective schemes are being implemented to avoid fault or danger and hence product will assist users to enhance their practical knowledge with safety.

## Features

- Provided with Digital Tachometer for RPM measurement
- Control board consist of high grade FRP material to provide utmost safety to the users
- Electrical Loading Arrangement
- Flexible Shaft Coupling Arrangement
- Rust free powder coated control panel
- Good quality digital panel meters
- Heavy duty base/channels
- Designed by considering all the safety measures
- Specially designed patch cords for safety purpose
- Diagrammatic representation for the ease of connections
- Machines with class "B" insulation
- Product Tutorial (CD)



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### Scope of Learning

- Study of and verify the Field Test of DC Series Machine and correspondingly determine the efficiency of DC Series Motor and Generator at any desire load
- Study of Operating Characteristics of DC Series Generator
- Study of Load Characteristics of DC Series Generator

### Technical Specifications

#### Machines Specifications

Both the Machines are flexibly coupled and mounted on a single “C” channel base

#### DC Machine (acts as prime mover)

Type	:	DC Series
Power Rating	:	2HP
Voltage Rating	:	220V $\pm$ 10%
Speed	:	1500 RPM $\pm$ 5%
Insulation Class	:	“B”

#### DC Machine (acts as Generator)

Type	:	DC Series
Power Rating	:	1HP (also available with 2HP)
Speed	:	1500 RPM
Insulation Class	:	“B”

#### Digital Meters used

DC Voltmeter	:	300V, (3 nos).
DC Ammeter	:	10A.
DC Ammeter	:	5A.

Digital Tachometer : 20,000 RPM

#### Optional Accessories

- DC Supply, Nvis 725A
- 220 Ohms, 2.8A Rheostat
- Resistive Load, Nvis 726/Nvis 7067 (for Machines rated upto 1HP/2HP respectively)

Designed & Manufactured in India by

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