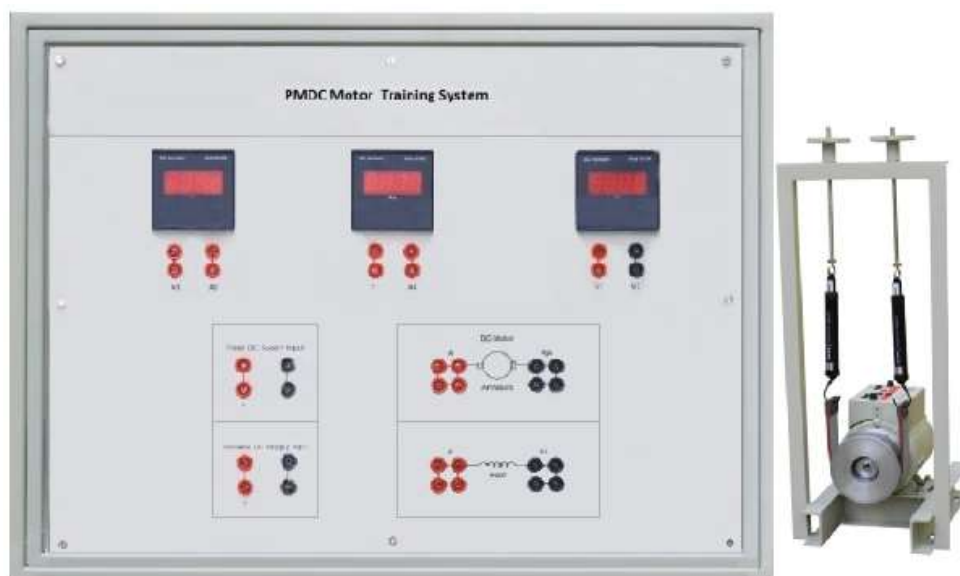


PMDC Motor Training System



** Shown image is just for illustration original may differ

Introduction

PMDC Motor Training System is an important and exclusively designed product for electrical laboratories. PMDC Machines are an important part of Electrical Engineering Syllabus. This panel plays a vital role in letting the students have a basic knowledge about the operating principle of PMDC machine. It provides complete learning contents to enhance practical knowledge and explains students the fundamental concepts of PMDC Machine.

This product provides comprehensive learning of functioning of a PMDC Motor. It can aptly be employed for performing various exercises like Motor Starting, No load and load Characteristics etc. Thus the product makes the subject completely understandable.

Product Features

- Machine with standard mechanical loading structure
- Machine with standard tabular spring balance with zero adjustment facility
- Machine winding consist of copper for long term service
- Machine Conforms to all leading industrial standards with Class “F” Insulation
- Brake-Drum/Pulley (Aluminum or MS Casting) with heat suppression facility inside it
- Provided with non contact/contact type Digital speed measuring equipment
- Inbuilt DC Power Drive of suitable rating with overload protection
- Heavy Duty Base/Channel with facility to concrete machine using suitable heavy nuts and bolts
- Control panel with digital microcontroller based measuring devices with high accuracy and resolution
- Front board consist of MS Material with power coating / epoxy paint to avoid any rust
- Provided with suitable protection such as fuses, MCB, etc wherever requires
- Specially designed BS10 Terminals and patch cords for electrical safety
- Lamp indication for single phase supply
- Screen printed diagrammatic representation for the ease of connections.
- Product provide with protection fuses, colored patch cords, single phase cords, learning manual contents having theory, operating procedure with connecting diagram, FAQ, Glossary, etc

Technical Specifications

Operation Voltage of Control Panel : 220VAC \pm 10%, 50Hz

DC Machine

Type : PMDC
 Power Rating : 0.5HP to 3HP
 Voltage Rating : 220VDC \pm 10%
 Speed : 1500 rpm \pm 10%
 Insulation : Class ‘F’
 Winding : Copper

Duty	: Continuous
Enclosure	: SPDP
Mounting	: Horizontal foot mounted
Shaft Extension	: Single Sided
Loading arrangement	: Mechanical
Brake Drum/Pulley	: MS/Aluminum Casted with heat suppression facility inside it
Spring Balance	: 2Nos. (Salter make)
Loading Nut & Bolts	: Brass material
Terminals box	: Powder coated/epoxy paint with terminals and fuses brought out at the top
Machine Base	: MS "C" Channel with suitable interconnection
Digital Meters used	
DC Voltmeter	: 300V
DC Ammeter	: 20A
DC Power Supply	
Output Fixed voltage	: 200VDC \pm 10%
Output Variable Voltage	: 0 - 240VDC \pm 10%
Current Rating	: Based on Power Rating of Machine
Protection	: Overload Protection
Digital Tachometer	
Range	: 19,999 rpm
Type	: Contact / Non-contact
Protection Devices	
MCB (DP)	: 1No
Glass Fuse	: 3Nos.
Grounding Nut	: Available at the rear side of the panel

Experiments Can be performed:

- Study of no load characteristic of PMDC Motor
- Study of Load Characteristic of PMDC Motor

Supporting Accessories supplied with Product

- Patch Cords of different color scheme
- Single Phase Mains Cord
- Extra Glass Fuses
- Operating Manual (softcopy)
- Digital Tachometer

****Please feel free to share your queries or requirements by filling your details in ask query section or request a Quote section on the website, we will be happy to cater your requirement.**