

DATA ACQUISITION SYSTEM

(for Electrical AC / DC Machines Laboratory)

This set up is specially designed for testing of AC / DC machines in Electrical laboratory. It can be used to measure all parameters in any types of electrical machines. A PC based software is provided to plot different characteristics. This set up consists of

1. Micro controller based current, voltage, speed and torque measurement system (DAS)
2. PC based software for graph plotting

- ✓ Advanced Risc Micro Controller Based Data Acquisition System
- ✓ 3 Numbers of AC / DC Current Sensor With Signal Conditioner Circuit is Provided
- ✓ 3 Numbers of Ac / Dc Voltage Sensor With Signal Conditioner Circuit Is Provided
- ✓ 1 Number of Speed Sensor With Signal Conditioner Circuit is Provided
- ✓ 1 Number of Torque Sensor With Signal Conditioner Circuit is Provided
- ✓ Housed on Powder Coated Cabinet
- ✓ 230V Ac Input
- ✓ Necessary Connectors Provided for Current / Voltage Measurement
- ✓ One Number of 20 x 4 LCD provided to indicate the following parameters

1. Voltage
2. Current
3. Power
4. Power factor
5. Efficiency
6. Speed
7. Torque



- ✓ Ploting of various Characteristics like
 1. Output power vs Efficiency
 2. Output power vs Load Torque
 3. Electrical characteristics
 4. Mechanical characteristics
 5. Dropping characteristics
 6. Speed regulation vs Load current
 7. Efficiency curve
 8. Output Power Vs Speed



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Measurement Setup



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