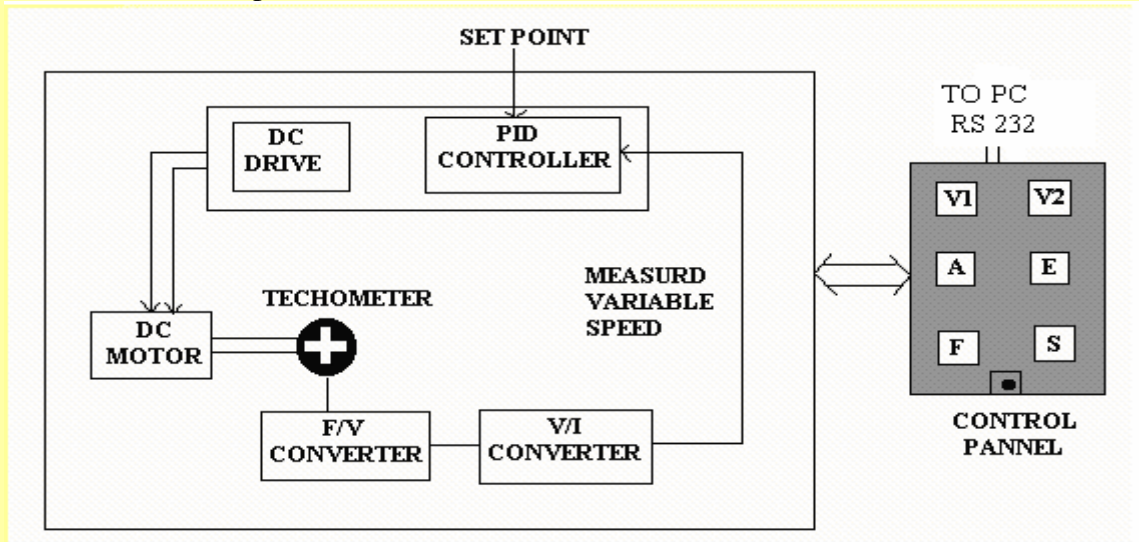


SAP E&C DC MOTOR SPEED CONTROL TRAINER i.e. DC DRIVE TRAINER (SAP-54)

The DC MOTOR CONTROL TRAINER (ICDT) outlines the basics of their operation, construction and speed control of motor.



Features:

- The self contained unit.
- Modern industrial components are used for operating.
- Comprehensive training manual supplied.
- Optional components are available to allow fault operation and diagnosis training
- Computer interface facility.
- SCADA software for graphical user interface (GUI), Digital data display, redundant bidirectional parameter selection facility, real time Trend plotting historical trends, report generation.

Instruction Manual

Self explanatory operation manuals are provided with each system. Detailed theory as well as practical exercises are also included in the manual.

OBJECTIVES:

1. Study of operation, construction of DC motor.
2. Study of characteristics of DC motor.
3. Study of tachometer.
4. Study of DC devices.
5. Characteristics plot of Voltage VS Speed, Speed VS Current, and Frequency VS Speed.
6. Study of closed loop control system (speed control).
7. Study of P, PI, and PID controllers.
8. Study of computerized speed control of DC motor.
9. Study of SCADA SOFTWARE for DC Speed control application.
10. Study torque VS speed for characteristics of DC Motor.

SYSTEM COMPONENTS:

- DC drives.
- PID controller.
- Tachometer.
- DC motor.

SERVICES REQUIRED:

Single phase electrical supply of 240V 50Hz.

DC generator or DC supply. (Other supply can be catered for required)

PC Pentium Dual core for SCADA software analysis for computerized control.

Note:

All descriptive matter and illustrations are intended to give only a general idea of the equipment. Detailed specifications may be altered at the company's discretion without notice.

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