



MC-ST

Sensor Trainer



The **MC-ST Sensor Trainer** is a powerful tool for the instrumentation and control lab. It covers the complete syllabus of this lab which includes A to D conversion and D to A conversion, VF/FV conversion, RS-232C and Microcontroller Interface. Each sensor with its amplifier unit is supplied along with a circuit diagram. A good sensor principle and characteristic is supplied along with each sensor.

The **RS-232C** interface is supported by **89C51 microcontroller** and 4 1/2 digit A to D converter.

Window based software is provided to data log the sensor data on to a Excel compatible file.

SPECIFICATIONS

Main Unit :

- 89C51 Microcontroller with RS-232C interface
- 4 1/2 digit A to D converter using 7135.
- 8-bit D to A converter
- VF/FV converter
- Control program loading and uploading.
- Power Supply Unit : 5V, $\pm 12V$

SENSOR WITH AMPLIFIER :

- Temperature and Humidity sensor

- RTD sensor
- LVDT sensor
- Level Sensor
- Infra red and ultrasonic sensor
- Pressure sensor
- Strain gauge sensor (Load Cell)
- Rotation sensor
- Fiber optic sensor
- Thermistor sensor
- Thermistor and Mercury s/w sensor
- **Accessories :**
 - 2 mm moulded connecting cord.
 - RS-232C cable.
- Experimental manual with Circuit Diagram.