

Advance Sensor Trainer Kit

Technical Specification

- On board test & measuring point in each section.
- On Board +5V, +12V, -5V power
- Digital voltmeter.
- On Board circuit block
- On Board LCD to check the Motor RPM
- On Board Relay
- Amplifier for various voltage amplifier.

ON BOARD SECTIONS

LVDT SENSOR

- On Board I/P DB9 socket for LVDT Cell. On board function generator. Test points to measure LVDT O/P with or without amplifier. Range ± 20 mm (-10 to +10)

Temperature Measurement

- Various temp sensors like Thermocouple, Thermistor, RTD,
- LM35. I/p & O/P on banana socket, Amplifier for RTD and Thermocouple

STRAIN GAUGE SENSOR

- On Board I/P banana Socket, Cantilever Beam type I/P method by hanging weight. Half bridge circuit, op amp based two different amplifiers, with each testing & measuring point.
- O/P is connected to voltmeter through banana socket

SMOKE SENSOR

- +5V operated smoke sensor, Buzzer alarm for indication.
- Provision to measure O/P on banana sockets.

PROXIMITY BASED SPEED MEASUREMENT

- Measurement of motor speed by proximity sensor. Variable potentiometer to vary speed.
- LCD display to show speed in RPM.

Experiments

- To Study the characteristics Of LVDT.
- To Study the Characteristics Of Temperature LM35 Sensor.
- To Study the Characteristics NTC temperature sensor.
- To Study the Characteristics thermocouple.
- To Study the Characteristics of strain gauge sensor.
- To Study the Characteristics Load cell sensor
- To Study the Characteristics Smoke sensor
- To Study the Characteristics RTD sensor
- To Study the Characteristics Speed sensor



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