

UIT-02 SENSOR TRAINER BOARD



UIT-02 is a Sensor Trainer offer Complete training opportunity for most commonly used Sensor available for experimenting in the Laboratory. Due to the typical Strength obtain from a sensor is not enough to process the signal; this board provides signal conditioners with Digital panel meter for display.

Specifications

Display Meter

- On-board Digital Panel Meter provided
- Measuring range of +/-1V
- Input available on 2mm Banana sockets

RPM Meter

- Digital RPM Meter
- Input available on 2mm Banana sockets

LVDT Transducer

- LVDT Transducer with transparent enclosure.
- Displacement of $\pm 5\text{mm}$
- Primary Excitation voltage of Sine wave 1V p-p.
- Signal Conditioning Amplifier
- LVDT transparent With Screw Gauge unit

Strain/Load Cell Transducer

- Resistive Load cell is used.
- Load/Strain in weights can be measured up to 3 KGs.
- Primary Excitation voltage of 12V DC

- Signal Conditioning Amplifier
- Cantilever Load Cell platform Unit for Strain & Load Cell Setup
- Weight unit up to 3Kgs

Temperature Sensor

- K-type Thermocouple is used.
- PT-100 Type RTD sensor is used
- LM335 Sensor.
- Thermistor Sensor

Signal Conditioning Amplifier

- Heater, Thermometer, Transparent Jar unit for Temperature setup

Speed Sensor

- Proximity Switch is used for Magnetic Pick-up.
- Opto-coupler is used for Photo Pickup
- DC Motor with Proximity Switch for Speed Measurement Setup

Smoke Sensor

- MQ2 Smoke Sensor.
- Buzzer for Alarm

Signal Conditioning & Amplifier

- Instrumentation amplifier
- All interconnections are made using 2mm socket.
- Test points are provided to analyze signals at various points.
- All ICS are mounted on IC Sockets.
- Bare board Tested Glass Epoxy SMOBC PCB is used.
- In-Built Power Supply of $\pm 5\text{V}$, $\pm 12\text{V}$.
- Attractive Metal Enclosure
- User Manual for Experiments.

Note : Specifications can be altered without notice in our constant efforts for improvement.