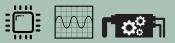
# PRESSURE TRANSDUCER TRAINER

PT-1000











# **Description:**

PT-1000 Trainer introduces students to Pressure transducers, signal conditioning circuits and display devices through a wide range of practical activities. The study module includes transducers and instrumentation trainer and a curriculum manual Detailed experiment manual is supplied with the trainer.

#### Sensors:

- Differential input Pressure Transducer
- Full Bridge Configuration

#### **Pressure Vessel:**

- Material Stainless Steel
- Pressure Gauge 0 to 50 psi
- Safety Valve 0 to 100 psi
- Max. bearable pressure 100psi

## Input Circuit:

- Solenoid Valve
- Wheatstone Bridge

## **Signal Conditioning Circuitry:**

- Differential Amplifier
- o x 100 Amplifier
- Instrumentation Amplifier x 50 Gain
- ODC Amplifier, ±2.5V offset, x 50 Gain
- Comparator
- Electronic Switch
- Relay

#### **Output Circuit:**

- Digital Voltmeter with 31/2 digit LED Display
- Buzzer
- LED Bar Graph

### **Power Supply:**

- ODC Supply: ±12V, ±5V
- Variable DC Supply: 1V to 10V.
- o 230 V ±10%, 50 Hz

#### Accesories:

Power Cord, User Manual, 2mm banana Patch Cords.







## **Features:**

- A self conatined Trainrer
- Transducers installed on-board
- Control Circuits Installed
- Functional Blocks indicated on
- Protection Circuits Installed
- Built in DC Power Supply
- Devices Installed

# **Experiments:**

- Introduction to Transducers and instrumentation.
- Characterizations Pressure Sensor
- Determining Sensitivity of Sensor
- Determining the cut off of Pressure Transducer
- Working of Differential Pressure Transducer MPX4250
- Wheatstone Bridge Measurement

Dimensions: 13.5 x 14 x 6 in Weight: 3.5Kg





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