



Sciencetech 2308M Pressure Transducers Test Bench is designed to explain concept of pressure measurement. It helps students & industry professionals to understand operation of pressure transducers in detail. Sciencetech 2308M Pressure transducer training platform includes different types of pressure sensors including capacitive pressure transducer, load cell, bourdon tube pressure gauge, and pressure vessel.

Features

- Pressure vessel with pressure gauge, safety valve, non returning valve bourdon gauge and capacitive transducer and air compressor.
- On panel digital voltmeter, digital ammeter, 4-20ma display, 0-10V DC display, toggle switch for compressor.
- Load cell with suitable weight.
- Experiments configurable through patch board.
- Self-contained, bench-mounting arrangement.
- Castor wheel (with locking mechanism) is provided at legs of Test bench so that it can be easily moved.
- Enhanced electrical safety consideration.

Scope of Learning

- Capacitive pressure transducer characteristics.
- Study and use of load cell.
- Pressure measurement using bourdon tube pressure gauge.

Technical Specifications

| | | |
|---------------------------------------|---|--|
| Capacitive pressure transducer | : | 1 no. |
| Range | : | 0-90 Psi |
| Output | : | 4-20mA |
| Type | : | Capacitive |
| Load cell | : | 1 no. |
| Maximum bearable weight | : | 5kg. |
| Load cell type | : | Strain guage/shear beam |
| Output | : | 10 gram/10mV |
| Current display | : | 1 no. |
| Display | : | 4 digit, 7 segment digital display |
| Keys | : | 3 for digital setting |
| Input type | : | Current (4-20mA) |
| Supply voltage | : | 230V AC |
| Voltage display | : | 1 no. |
| Display | : | 4 digit, 7 segment digital display |
| Keys | : | 3 for digital setting |
| Input type | : | Voltage (0-10VDC) |
| AC digital voltmeter | : | 1 no. |
| Range | : | 0-300VAC |
| AC digital ammeter | : | 1 no. |
| Range | : | 0-10A AC |
| Toggle switches | : | 1 no. |
| Indicator | : | 1 no. |
| Pressure vessel | : | 1 no. |
| Pressure gauge | : | 0 to 100 psi |
| Pressure vessel | : | 0 to 100 psi |
| Safety valve | : | 0 to 100 psi |
| Non returning valve | : | 1 no. |
| Bourdon tube pressure gauge | : | 1 no. |
| Range | : | 0-100 psi |
| Air compressor | : | 1 no. |
| Power | : | 0.75 HP |
| Pressure | : | 100 psi (maximum) |
| Caster wheel (4") | : | 4 nos (with lock), 2 (without lock) |
| Accessories | : | Air compressor - 1 no. 4mm patch cord - 6 nos. Mains cord - 1 no. |
| Standard weights | : | 20 gram - 1 no., 50 gram - 2 nos., 100 gram - 2 nos. & 200 gram - 2 nos. |