



THE LAB EQUIPMENT

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**Product Name :**

Pressure Measurement Bench

**Product Code :**

SLE/EFM/26



## Description :

- Manometers and Bourdon gauges are fundamental pressure-measuring devices.
- They are intrinsic parts of more complex measuring instruments, such as pneumatic comparators and flow indicators.
- It is important therefore that students fully understand their operation, characteristics and principles of calibration.
- It also includes a separate Bourdon gauge with dead-weight calibration apparatus, enabling clear observation of the Bourdon tube mechanism.
- Pressure Measurement Bench enables students to fully investigate and compare the operation and characteristics of inclined and U-tube manometers, and Bourdon-type vacuum and pressure gauges.

### The apparatus consists of two units:

- A manometers and gauges unit.
- A Bourdon pressure gauge calibration unit.

### The manometers and gauges unit is a framed structure with a backboard, holding a:

- vertical U-tube manometer.
- U-tube manometer with an inclined limb.
- Bourdon gauge for measuring vacuums.
- Bourdon gauge for measuring positive pressure.
- syringe assembly for pressurising and reducing pressure.

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