

Product Name :

Dead Weight Pressure Gauge Calibrator

Product Code :

SLE/MCE/34



Description :

Features:

- A bench top unit comprising a simple Deadweight Pressure Calibrator with weights.
- Pressure sensors, manometers or Bourdon gauges other than those supplied can be calibrated.
- The pressure in the system is produced by means of a capstan-operated hydraulic ram, balanced by deadweight acting upon a piston of known area.
- The pressure developed is applied to the gauge that is to be calibrated.
- A spirit level and adjustable feet are provided to enable the operator to level the instrument.
- A flotation indicator mounted on the top plate removes the guesswork when floating the piston.
- The direct measurement of pressure ($p=F/A$).
- Masses added are proportional to the target pressure.
- Dual pistons enable calibration over a wide range of pressures.
- Precision machined piston and cylinder with leveling screws.
- Bourdon gauge with inlet and outlet valves.
- Calibration of pressure gauges by deadweight method to accuracy better than 0.025% of reading.

Specification:

- **Range:** 20 kNm⁻² to 200 kNm⁻²
- **Dimension:** 450-x400 x 300 mm
- **Weight:** 30kg
- **Calibration gauges :** 1-1,200
- **Bar range :** $\pm 0.025\%$ of reading.
- Includes carrying case and weights.
- Minimum standard weight increment is 0.05 bars.
- Oil is used as the hydraulic fluid.
- Portable, self-contained deadweight precision pressure gauge calibrator.

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