

Product Name :
Dead Weight Pressure Gauge Calibrator

Product Code :
NLAB-MECHANICALAB230008



Description :

Dead Weight Pressure Gauge Calibrator

Technical Specification :

The advanced equipment is self-contained and portable, so it may be used in lecture theatre demonstrations or as a master calibrator for the laboratory. Deadweight testers are the basic primary standard used worldwide for the accurate calibration of pressure gauges, pressure transducers etc. Deadweight testers are the basic primary standard used worldwide for the accurate calibration of pressure gauges, pressure transducers etc.

The instrument combines a low and high-pressure range provided by two pistons of different effective area. Calibration is accurate to within $\pm 0.025\%$ of reading. A laboratory calibration certificate is supplied for each piston together with a traceable certificate of overall accuracy. 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. Oil is used as the hydraulic fluid.

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.

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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 over the range 20 kNm⁻² to 200 kNm⁻²

The direct measurement of pressure ($p=F/A$)

Masses added are proportional to the target pressure

Calibration of pressure gauges by deadweight method to accuracy better than 0.025% of reading

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

Set of weights

Educational software available as an option

SPECIFICATION

Portable, self-contained deadweight precision pressure gauge calibrator

Calibration gauges with 1-1,200 bar range to $\pm 0.025\%$ of reading

Supplied complete with laboratory calibration certificate

Includes carrying case and weights

Minimum standard weight increment is 0.05 bars.

Naugralabequipments

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