

Product Name :
Precision Pressure Gauge Calibrator

Product Code :
NLAB-MECHANICALAB230029



Description :

Precision Pressure Gauge Calibrator

Technical Specification :

The 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. 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 dead weight 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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The instrument is supplied complete with necessary weights and a fitted carrying case. 1/4", 1/2" BSP and NPT female adaptors are included together with spare seals and a quantity of oil.

FEATURES:

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

Masses added are proportional to the target pressure

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

Dual pistons enable calibration over a wide range of pressures

SPECIFICATIONS:

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 bar

Naugralabequipments

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