

Product Name :
Precision Pressure Gauge Calibrator

Product Code :
ENGLABINGCAG300031



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.
Dead weight 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.
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.
A laboratory calibration certificate is supplied for each piston together with a traceable certificate of overall accuracy.
The instrument is supplied complete with necessary weights and a fitted carrying case. $\frac{1}{4}$ " BSP and NPT female adaptors are included together with spare seals and a quantity of oil.

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

Portable, self-contained deadweight precision pressure gauge calibrator
Calibration gauges with 1-1,200 bar range to $\pm 0.025\%$ of reading
Minimum standard weight increment is 0.05 bar
Supplied complete with laboratory calibration certificate
Includes carrying case and weights



Engineering Lab Equipment India