armfield

adopted in calibrating industrial pressure gauges.



SOFTWARE INCLUDED WITH ALL F1-10 BENCH'S AS STANDARD

F SERIES: BASIC FLUID MECHANICS Complete Fluid Mechanics Laboratory – F1

Dead Weight Calibrator - F1-11



Description

The Dead Weight Calibrator consists of a precision-machined piston and cylinder assembly mounted on levelling screws.

A Bourdon gauge is supplied for calibration. The weights supplied are added to the upper end of the piston rod which is rotated to minimise friction effects.

The gauge is thus subject to known pressures which may be compared with the gauge readings and an error curve drawn.

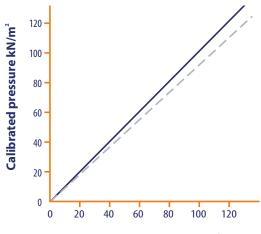
Technical specifications	
Pressure gauge	Bourdon tube
	range 0 to 200 kN/m² (kPa)
Area of piston	244.8 x 10 ⁻⁶ m ²
Mass of piston	0.5kg
Ancillary masses	2x 0.5kg, 1.0kg and 2.5kg

Overall dimensions	
Length	0.25m
Width	0.125m
Height	0.50m

UK office - email: sales@armfield.co.uk tel: +44 (0) 1425 478781 (for ROW) USA office - email: info@armfield.inc tel: +1 (609) 208-2800 (USA only)

Experimental content

- ➤ To calibrate a Bourdon type pressure gauge and to determine the gauge errors
- ➤ To determine the measurement errors in the reference pressure source used for calibration



Indicated pressure kN/m3

Ordering codes

► F1-11

Issue: 2 Applications
URL: http://www.armfield.co.uk/f1 ChE ME CE IP