

**Dead Weight Calibrator - F1-11**

This calibrator functions under the same principle adopted in calibrating industrial pressure gauges.



**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**

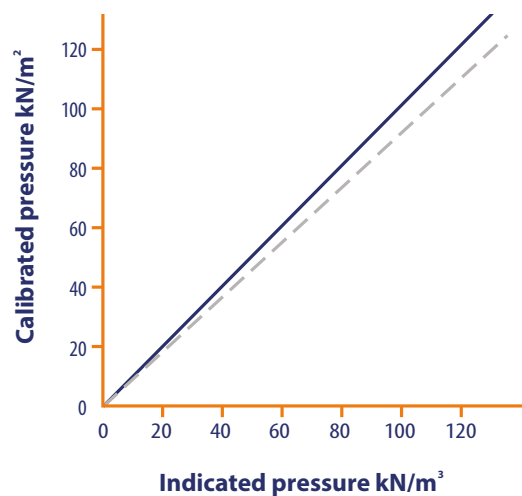
Pressure gauge	Bourdon tube range 0 to 200 kN/m <sup>2</sup> (kPa)
Area of piston	244.8 x 10 <sup>-6</sup> m <sup>2</sup>
Mass of piston	0.5kg
Ancillary masses	2x 0.5kg, 1.0kg and 2.5kg

**Overall dimensions**

Length	0.25m
Width	0.125m
Height	0.50m

**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



**Ordering codes**

- ▶ F1-11