

## Dead Weight Tester (EDC-FM-105)

### EXPERIMENTAL DATA:

- Calibration of a Bourdon type gauge
- Determination of Hysteresis Curve



### DESCRIPTION:

The Dead Weight Pressure Gauge 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.

### RELATED LAWS:

- Hydraulics
- Pascal's Law

### SCOPE OF DELIVERY:

- 1 x EDC-FM-105
- Set of calibrated weights
- 1 x Instructional Manual

### DIMENSIONS AND WEIGHT:

L x W x H (mm): 350 x 200 x 300

Weight: 10 kg



## TECHNICAL DATA:

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### Piston Assembly:

- Minimum piston diameter: 18mm
- Piston area: 255 mm<sup>2</sup> or better
- Approximate piston weight: 500g

### Pressure Measurement:

- Measuring range: 0 to 2.5 bar

### Dimensions and Weight:

- Minimum size: 400 x 400 x 400 mm (L x W x H)
- Maximum weight: 15 kg