



- ▶ Ranges from 15 to 1000 mbar
- ▶ Standard Accuracy to 0.015%

Pneumatic
Dead-Weight
Testers.

Primary standards
for Pressure
Calibration

- ▶ Class 'A' Accuracy to 0.006%
- ▶ Supplied with Software



DH-Budenberg
The Pressure Reference

Industrial Range

MODEL 551

Pneumatic Dead-Weight Testers.

Primary standards for Pressure Calibration

Standard Accuracy to 0.015%
Class A with UKAS

Calibration Certificate 0.006%

RANGES:

mbar 15 to 1000

kPa 1.5 to 100

in. water 5 to 400

mm water 150 to 10,000



ACCURACY

All certificates issued for DH-Budenberg Dead-weight Testers are fully traceable to national standards via equipment with UKAS calibration certificates. A standard accuracy of 0.015% is achieved from 10% of range using software supplied to compensate for the effects of gravity, temperature and the actual area of piston unit. Standard accuracy without any corrections for actual area is 0.02% from 100 to 1000 mbar, 0.04% from 15 to 100 mbar. Higher accuracy Class A testers are available (supplied with UKAS Calibration certificates for area and mass) allowing an accuracy of 0.006% to be achieved.

WEIGHTS SUPPLIED

15 to 1000 mbar		1.5 to 100 kPa		5 to 400 in. water		150 to 10,000 mm. water	
Piston ⁺	15	Piston ⁺	1.5	Piston ⁺	5	Piston ⁺	150
1 wt	5	1 wt	0.5	1 wt	45	1 wt	850
3 wts	20	3 wts	2	2 wts	100	3 wts	2000
2 wts	10	2 wts	1	2 wts	50	2 wts	1000
6 wts	50	6 wts	5	2 wts	20	1 wt	500
6 wts	100	6 wts	10	1 wt	10	2 wts	200
				1 wt	5	1 wt	100
				2 wts	2	1 wt	50
				1 wt	1	1 wt	25

* includes making-up weight or screw

The 550 base can be used with any 550 series pistons, allowing testing from 15 mbar to 120 bar. The base requires a supply of gas slightly above test pressure, and has precision inlet/outlet valves and a screwpress to enable easy regulation and adjustment of pressure.

The 551 has a 1/2in² high chrome steel piston/cylinder unit. The design has been proven over many years to provide excellent sensitivity and stability. Low start pressure is achieved through use of a hollow piston and aluminium head.

NOTE: Model 551 can be used on vacuum with a model 24 adaptor.

SOFTWARE

For maximum ease of use, computer software is supplied with all units. There are two software packages, one for standard accuracy, one for Class A. The software allows the users to correct for the effects of environmental factors such as gravity and temperature and to determine the precise pressure generated by the Dead-weight testers.

ACCESSORIES

There are many accessories which can be supplied for use with the Dead-weight testers. These include liquid / liquid seals, two gauge stands and many others. DH-Budenberg have extensive experience in the use of Dead-weight testers and can supply accessories for many applications. A separate data sheet of accessories is available.

PACKING DETAILS

1 carton containing complete tester:
59 x 49 x 38cm. 0.110m³, Nett 21kg, Gross 24kg.

SPARES, REPAIR AND RE-CERTIFICATION

Comprehensive service and calibration capability of both DH-Budenberg and non DH-Budenberg test equipment: Dead-weight Testers (working service or full overhaul).

Portable calibrators (DH-Budenberg & non- DH-Budenberg).

Comparators.

All accuracy ranges can be supplied with UKAS Calibration Certificates.

Certification traceable to national standards.

Rapid turn-around times and hire items available as a temporary replacement for strategically important plant.

For further information on Accessories, Repairs & Recertification contact DH-Budenberg and ask for a Data sheet.

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