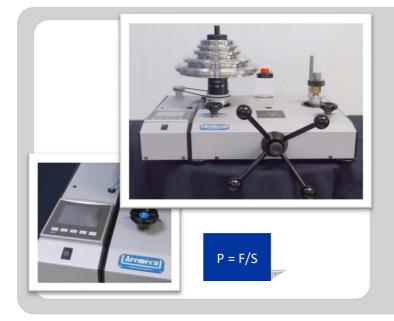


BH4-1200B sp

Automatic Dead weight tester - Hi-tech / Hydraulic



✓ Technical specifications of the range BH4

✓ Applications

This primary standard Range are designed to test, adjust and calibrate measuring instruments, mechanical or electronic pressure by comparison (pressure gauges, pressure transmitters or sensors or switches)

The dead weight tester consist of a pressure generator, a piston/cylinder unit, a set of weigh identified and of a computer on which is posted : the position of the piston and the value of pressure generated by the dead weight according to the various physical quantities.

The capstan is used to generate a pressure pushing the fluid through the piston. This pressure is balanced by the piston/cylinder assembly which allows to compare the instrument to be calibrated to the pressure values generated by the standard.

This reference instrument are used in factory or calibration laboratory. They are robust and easy to use and have a high long-term stability.

Calibration :	Our dead weight tester are calibrated under the following conditions of use :
	Temperature 20°C - Pressure atmos. 1013.25 hPa - Humidity 50% - acceleration 9.80665 m/s ² In case you don't use it under the conditions mentioned above, it is necessary to recalculate the pressure generated by the dead weight according to the different variables.
Fluid :	Mineral or synthetic oil depending on model, colorless, compatible with medical or food uses – tank volume 125 $\rm cm^3$
Check/adjust the seat :	leveling bubble and adjustable feet
Connecting for the instrument to be tested :	swivel G1/2 standard – other optional fittings
Motorization :	motorized weight set drive by electric engine
Measure of the temperature :	Precision ± 0.1°C
Measure of the atmospheric pressure :	Precision ± 1HPa / range 0 to 1600 mbar / resolution = 1mbar
Calculator RS232 /mains 220v, 50Hz:	 with dynamic display of the position of the piston with automatic display of the pressure generated by the dead weight according to the temperature, the atmospheric pressure with a connection for the transfer of the data on computer, allowing a total traceability
Crankcase :	Light alloy aluminium AG3 + high-resistance paint
Capstan :	removable for transport
Piston/cylinder :	Single or twin piston tungsten carbide and/or treated steel depending the model – Répeatability : 1.10 ⁻⁵ - Sensitivity : 3.10 ⁻⁵ - Precision dead weight : 5.10 ⁻⁵
Weight :	stainless steel – Total weight of the set of weights from 25 kg to 100 kg depending on model – Ergonomic shape of the masses, easy loading of the masses on the bell - Marking corresponding with the measuring unit choose (bar, mbar, KPa, PSI etc) Gravity : standard (9.80665 m/s ²) or local gravity without supplement
- Operating temperature:	18 to 28°C – 64 to 82°F

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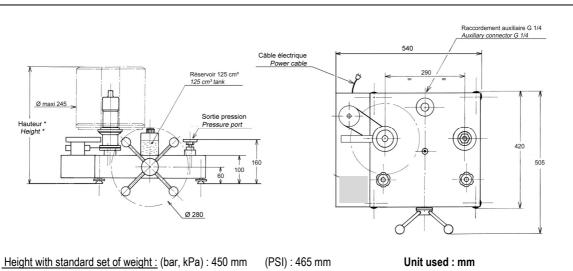
✓ Technical product specifications

- Model :	BH4-1200B SP - Dead weight tester single piston
- Measuring range :	20 to 1200 bar / 200 to 16000 PSI / 2000 to 120000 kPa
- Accuracy :	0.01% of reading up to 0.008% on request
 Weight dead weight without masses : 	24 kg
- Fluid :	Oil
- Material Piston/Cylinder :	P = tungsten carbide / C = treated steel
- Number of piston :	1

- Unit supplied with : Operating instructions / AREMECA calibration certificate traceable to national standards / unit data sheet / 0.5 liter mineral oil / G1/2 outlet connector / tools / OP0002 suitcase for base

Note: All our documents can be delivered in English, French or German.

✓ Standard device dimensions



CHOOSING OPTIONS

Gravitation option OFFERED :: we will adjust your weight set to the standard or special G (give us the desired value).

I Unit option OFFERED : choose the unit of the main weight set (e.g. PSI, BAR) delivered with the DWT

Option OP237-200 : weights set adjustment with cofrac certificate

Standard set			
Unit : BAR (Ref. MB0020)	Pressure (bar)	Total weight	Typical value (g)
	200	4	8000
	180	1	7200
	100	1	4000
	40	2	1600
	20	1	800
	10	1	400
	4	2	160
	2	1	80
Initial pressure bell	20	Х	800
TOTAL	1222	13	±49 kg

Optional :

- Set of weights adjustment from 1 mg to 50g with COFRAC certificat (Ref.OP237-200)

Standard set			
Unit : PSI (Ref. MB0022)	Pressure (PSI)	Total weight	Typical value (g)
	2000	6	5520
	1800	1	4968
	1000	1	2760
	400	2	1104
	200	1	552
	100	1	276
	40	2	110.4
	20	1	55.2
Initial pressure bell	200	х	552
TOTAL	16230	15	±45 kg

Note : the calculator is able to transcribe the results of the weight set in bar, in the unit of your choice

Optional DAkkS/DKD accredited calibration certificate. Note: an AREMECA factory certificate is delivered with the dead weight tester. A DKD certificate will improve the results of your device

Optional adaptation to corrosive products : skydroll type, brake fluid etc...

Maintenance option : Our technical department is at your disposal to set up a maintenance contract for your device, as well as to schedule a calibration service - Calibration of the device is recommended every 2 to 5 years, depending on your use.



✓ Accessories



Ref OP0057 Accessories suitcase Ref OP0023 Separator liquid/liquid Ref OP0025 drain kit for oil ref OP0037 Suitcase with 17 adaptors type M + G + NPT + BSP-TR / Pressure max 1200 bar Ref OP0062 Cleaning bench Ref OP0171 Suitcase adaptors type G / Ref OP0172 Suitcase adaptors type NPT / Ref OP0173 Suitcase adaptors type BSP-TR / Ref OP0174 Suitcase adaptors type M

✓ Transport and packaging

Designation/Reference	Dimension / carton or shipping crate	total weight (packaging + materiel)
Wooden over-wrapping		(DWT + set of weights + cardboard packaging)
DWT without options or accessories	79 x 48 x 34 cm	Total weight ±97 kg
If option	98 x 70 x 50 cm	Total weight to defined



- Note: Shipping is extra. Size may vary if accessories are purchased with the unit.

(Datasheet is available on request or on our website : www.aremeca-instrumentation.com)

Models single piston

		Measuring range	
Models	Accuracy	Bar ou kg/cm²	PSI
BH4-7000B	0.05%	200 to 7000	2000 to 100000
BH4-6000B	0.05%	200 to 6000	2000 to 80000
BH4-5000B	0.02%	40 to 5000	600 to 72500
BH4-4000B	0.02%	40 to 4000	600 to 60000
BH4-3000B	0.02%	40 to 3000	600 to 44000
BH4-2500B	0.02%	40 to 2500	600 to 36200
BH4-2000B	0.02%	40 to 2000	600 to 30000
BH4-700B sp	0.01%	2 to 700	30 to 10000
BH4-600B sp	0.01%	2 to 600	30 to 8000
BH4-400B sp	0.01%	2 to 400	15 to 5000
BH4-300B sp	0.01%	1 to 300	15 to 4000
BH4-120B	0.01%	0.5 to 120	10 to 2000
BH4-60B	0.01%	0.2 to 60	3 to 800
BH4-30B	0.01%	0.1 to 30	2 to 400

Dual piston models : these dead weight tester integrating two pistons can get two ranges from a single set of weight

		Measuring range	
Models	Accuracy	Bar ou kg/cm ²	PSI
BH4-1200B dp	0.01%	1 to 60+ 20 to 1200	10 to 800 + 200 to 16000
BH4-700B dp	0.01%	1 to 60 + 10 to 700	10 to 800 + 100 to 10000
BH4-600B dp	0.01%	1 to 60 + 10 to 600	10 to 800 + 100 to 8000
BH4-400B dp	0.01%	1 to 60 + 5 to 400	10 to 800 + 50 to 5000
BH4-300B dp	0.01%	1 to 60 + 5 to 300	10 to 800 + 50 to 4000