

Type SHPBG, HPB, M and L

Laboratory scales with precise results – unrivalled in this performance class



Whether you need to perform a simple routine task or a complicated weighing procedure, the latest generation of As-Wägetechnik laboratory scales will impress you with excellent performance.

They combine a modern design with excellent performance features and deliver the best measurement results in the shortest possible time thanks to their highly precise measurement system, which guarantees a long service life with exceptional robustness.

The versions with an integrated weight calibrate and adjust the scales if necessary, and they do so fully automatically with every temperature change that could influence the measurement results.

The wide range of integrated applications is ideal for use in laboratories, in research departments and in quality control.

The models with the suffix -ION are equipped with an ioniser integrated on the back of the scales to neutralise statically charged samples (especially plastic products) and to avoid false measurements.

With the help of an integrated density determination program and an optional density kit, the density of solids or liquids can be determined very accurately.



✓ Excellent readability

- **HPB, M and L:** High-contrast backlit LCD display, very easy to read in all workplace lighting conditions. Version with graphic or touch screen display available on request.
- **SHPBG:** Large dot matrix graphic display for an optimal user overview. Version with touch screen display available on request.

✓ Measuring sensor

- **SHPBG, HPB, M:** High-precision electromagnetic force compensation measuring system
- **L:** High-resolution strain gauge measuring system

✓ Robust housing

- The housing protects the load cell from environmental influences and improves the measurement results even when used intensively in difficult environmental conditions.



Weighing pan:
Ø 80 mm
Weighing area:
162x171x225 mm

Semi-micro scales

Code	Weighing range	Readability	Verification interval	Repeatability (SD)	Linearity	Settling time (sec.)	Calibration/adjustment
HPB-625i	62 g	0.01 mg	-	0.03 mg	± 0.08 mg	≤ 6	internal
HPB-105i	102 g	0.01 mg	-	0.05 mg	± 0.08 mg	≤ 6	internal
HPB-105i-ION	102 g	0.01 mg	-	0.05 mg	± 0.08 mg	≤ 6	internal
SHPBG-125i-ION	122 g	0.01 mg	-	0.05 mg	± 0.1 mg	≤ 6	internal
SHPBG-165i-ION	162 g	0.01 mg	-	0.05 mg	± 0.1 mg	≤ 6	internal
SHPBG-225i-ION	220 g	0.01 mg	-	0.05 mg	± 0.1 mg	≤ 6	internal
HPB-1265Di	62/120 g	0.01/0.1 mg	-	0.03/0.1 mg	± 0.08/± 0.2 mg	≤ 6	internal
HPB-2285Di	82/220 g	0.01/0.1 mg	-	0.04/0.1 mg	± 0.08/± 0.2 mg	≤ 6	internal
HPB-22105Di	102/220 g	0.01/0.1 mg	-	0.05/0.1 mg	± 0.08/± 0.2 mg	≤ 6	internal
HPB-22105Di-ION	102/220 g	0.01/0.1 mg	-	0.05/0.1 mg	± 0.08/± 0.2 mg	≤ 6	internal
HPB-105i-M	102 g	0.01 mg	1 mg	0.05 mg	± 0.08 mg	≤ 6	internal
HPB-1265Di-M	62/120 g	0.01/0.1 mg	1 mg	0.03/0.1 mg	± 0.08/± 0.2 mg	≤ 6	internal
HPB-22105Di-M	102/220 g	0.01/0.1 mg	1 mg	0.05/0.1 mg	± 0.08/± 0.2 mg	≤ 6	internal
HPB-105i-ION-M	102 g	0.01 mg	1 mg	0.05 mg	± 0.08 mg	≤ 6	internal
HPB-22105Di-ION-M	102/220 g	0.01/0.1 mg	1 mg	0.05/0.1 mg	± 0.08/± 0.2 mg	≤ 6	internal

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Analytical scales  Weighing pan: Ø 80 mm Weighing area: 162x171x225 mm	M124A	120 g	0.1 mg	-	0.1 mg	± 0.3 mg	≤ 4	external
	M214A	220 g	0.1 mg	-	0.1 mg	± 0.3 mg	≤ 4	external
	M254A	250 g	0.1 mg	-	0.1 mg	± 0.3 mg	≤ 4	external
	M124Ai	120 g	0.1 mg	-	0.1 mg	± 0.3 mg	≤ 4	internal
	M214Ai	220 g	0.1 mg	-	0.1 mg	± 0.3 mg	≤ 4	internal
	M254Ai	250 g	0.1 mg	-	0.1 mg	± 0.3 mg	≤ 4	internal
	M314Ai	310 g	0.1 mg	-	0.1 mg	± 0.3 mg	≤ 4	internal
	HPB-414Ai	310/410 g	0.1 mg	-	0.1/0.3 mg	± 0.4 mg	≤ 4	internal
	HPB-514Ai	310/510 g	0.1 mg	-	0.1/0.3 mg	± 0.5 mg	≤ 4	internal
	HPB-614Ai	310/610 g	0.1 mg	-	0.1/0.3 mg	± 0.5 mg	≤ 4	internal
	HPB-1004Ai	500/1000 g	0.1 mg	-	0.3/0.4 mg	± 0.5 mg	≤ 6	internal
	M214Ai-ION	220 g	0.1 mg	-	0.1 mg	± 0.3 mg	≤ 4	internal
	M314Ai-ION	310 g	0.1 mg	-	0.1 mg	± 0.4 mg	≤ 4	internal
	HPB-414Ai-ION	310/410 g	0.1 mg	-	0.1/0.3 mg	± 0.4 mg	≤ 4	internal
	HPB-514Ai-ION	310/510 g	0.1 mg	-	0.1/0.3 mg	± 0.5 mg	≤ 4	internal
	HPB-614Ai-ION	310/610 g	0.1 mg	-	0.1/0.3 mg	± 0.5 mg	≤ 4	internal
	HPB-1004Ai-ION	500/1000 g	0.1 mg	-	0.3/0.4 mg	± 0.5 mg	≤ 6	internal
	M124Ai-M	120 g	0.1 mg	1 mg	0.1 mg	± 0.3 mg	≤ 4	internal
	M214Ai-M	220 g	0.1 mg	1 mg	0.1 mg	± 0.3 mg	≤ 4	internal
	M254Ai-M	250 g	0.1 mg	1 mg	0.1 mg	± 0.3 mg	≤ 4	internal
Precision scales 1 mg  Weighing pan: Ø 110 mm Weighing area: 162x171x 225 mm	LW203i	210 g	0.001 g	-	0.0006 g	± 0.003 g	≤ 3	internal
	LW303i	310 g	0.001 g	-	0.0006 g	± 0.003 g	≤ 3	internal
	LW423i	420 g	0.001 g	-	0.001 g	± 0.004 g	≤ 4	internal
	MW523i	520 g	0.001 g	-	0.001 g	± 0.002 g	≤ 2	internal
	MW1203i	1200 g	0.001 g	-	0.001 g	± 0.003 g	≤ 3	internal
	MW2103i	2100 g	0.001 g	-	0.001 g	± 0.005 g	≤ 3	internal
	MW523i-M	520 g	0.001 g	0.01 g	0.001 g	± 0.002 g	≤ 2	internal
	MW1203i-M	1200 g	0.001 g	0.01 g	0.001 g	± 0.003 g	≤ 3	internal
	MW2103i-M	2100 g	0.001 g	0.01 g	0.001 g	± 0.003 g	≤ 3	internal
Precision scales 1 mg  Weighing pan: Ø 110 mm Weighing area: Ø 150x70 mm	L203	210 g	0.001 g	-	0.0006 g	± 0.003 g	≤ 3	external
	L303	310 g	0.001 g	-	0.0006 g	± 0.003 g	≤ 3	external
	L423	420 g	0.001 g	-	0.001 g	± 0.004 g	≤ 4	external
	L203i	210 g	0.001 g	-	0.0006 g	± 0.003 g	≤ 3	internal
	L303i	310 g	0.001 g	-	0.0006 g	± 0.003 g	≤ 3	internal
	L423i	420 g	0.001 g	-	0.001 g	± 0.004 g	≤ 4	internal
	M523	520 g	0.001 g	-	0.001 g	± 0.002 g	≤ 2	external
	M1203	1200 g	0.001 g	-	0.001 g	± 0.003 g	≤ 3	external
	M523i	520 g	0.001 g	-	0.001 g	± 0.002 g	≤ 2	internal
	M1203i	1200 g	0.001 g	-	0.001 g	± 0.003 g	≤ 3	internal
	M523i-M	520 g	0.001 g	0.01 g	0.001 g	± 0.002 g	≤ 2	internal
	M1203i-M	1200 g	0.001 g	0.01 g	0.001 g	± 0.002 g	≤ 2	internal
	M1203Di-M	720/1200 g	0.001/0.01 mg	0.01/0.1 g	0.001/0.005 g	± 0.002/0.01 g	≤ 2	internal

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	Code	Weighing range	Readability	Verification interval	Repeatability (SD)	Linearity	Settling time (sec.)	Calibration/adjustment
Precision scales 0.01 g  Weighing pan: Ø 160 mm	L1002	1000 g	0.01 g	-	0.01 g	± 0.02 g	≤ 3	external
	L2202	2200 g	0.01 g	-	0.01 g	± 0.03 g	≤ 3	external
	L3202	3200 g	0.01 g	-	0.01 g	± 0.03 g	≤ 3	external
	L4202	4200 g	0.01 g	-	0.01 g	± 0.04 g	≤ 4	external
	L5202	5200 g	0.01 g	-	0.01 g	± 0.04 g	≤ 4	external
	L1002i	1000 g	0.01 g	-	0.01 g	± 0.02 g	≤ 3	internal
	L2202i	2200 g	0.01 g	-	0.01 g	± 0.03 g	≤ 3	internal
	L3202i	3200 g	0.01 g	-	0.01 g	± 0.03 g	≤ 3	internal
	L4202i	4200 g	0.01 g	-	0.01 g	± 0.04 g	≤ 4	internal
	L2202i-M	2200 g	0.01 g	0.1 g	0.01 g	± 0.03 g	≤ 3	internal
	L3102i-M	3100 g	0.01 g	0.1 g	0.01 g	± 0.03 g	≤ 3	internal
	M4202	4200 g	0.01 g	-	0.01 g	± 0.03 g	≤ 2	external
	M5202	5200 g	0.01 g	-	0.01 g	± 0.03 g	≤ 3	external
	M6202	6200 g	0.01 g	-	0.01 g	± 0.03 g	≤ 3	external
	M5502D	800/5500 g	0.01/0.1	-	0.005/0.03 g	± 0.01/± 0.1 g	≤ 2	external
	M4202i	4200 g	0.01 g	-	0.01 g	± 0.03 g	≤ 2	internal
	M5202i	5200 g	0.01 g	-	0.01 g	± 0.03 g	≤ 3	internal
	M6202i	6200 g	0.01 g	-	0.01 g	± 0.03 g	≤ 3	internal
	M4202i-M	4200 g	0.01 g	0.1 g	0.01 g	± 0.03 g	≤ 2	internal
	M5202i-M	5200 g	0.01 g	0.1 g	0.01 g	± 0.03 g	≤ 3	internal
	M6202i-M	6200 g	0.01 g	0.1 g	0.01 g	± 0.03 g	≤ 3	internal
Precision scales 0.1 g  Weighing pan: 175x195 mm	L4501	4500 g	0.1 g	-	0.05 g	± 0.1 g	≤ 2	external
	L5201	5200 g	0.1 g	-	0.05 g	± 0.1 g	≤ 2	external
	L6501	6500 g	0.1 g	-	0.05 g	± 0.1 g	≤ 2	external
	L8001	8000 g	0.1 g	-	0.05 g	± 0.2 g	≤ 2	external
	L10001	10000 g	0.1 g	-	0.05 g	± 0.2 g	≤ 2	external

Please contact us for data sheets, all other features, functions and options, as well as other versions.