

A Top Quality series of Analytical Balances that combine elegance with highly reliable measuring performance. Double case structure, ergonomic keypad, external or internal calibration. Many embedded advanced features make them perfect for use in laboratory, research departments, formulation and quality control applications.

The -ION models are equipped with an integrated ioniser on the rear of the balance with the purpose to neutralize static electricity on charged samples like plastic parts, containers or films..

Main features

- Electromagnetic force restoration weighing system
- User selectable environmental filter
- External or automatic internal calibration
- LCD with backlight with adjustable contrast
- Integrated ioniser on rear of balance for -ION models
- Large glass draftshield with 3 sliding doors for easy access to the items being weighed
- RS232 serial interface
- Plastic protection cover

Accessories

- Portable ioniser Ion-A15 (BL0371)
- Serial Printer TLP-50, with date/time (C054)
- Dot-matrix Printer TX-110, with functions (AC030)
- Serial Printer DPP-250 (AC007)
- Density KIT for solids and liquids (AC002)
- PC data collection software (BL0476)
- Serial to USB converter (E1002)
- Factory Calibration certificate (BL0333)
- Conformity Declaration (Verification) ⁽²⁾

Technical data

Common features

- Span drift (+ 10...+ 30 °C): +/- 3ppm/°C
- Dimensions LxWxH (mm): 345x215x345
- Weighing chamber dimensions LxWxH (mm): 162x171x225
- Power supply 110-230Vac, 50/60Hz; output 24V 1A multi plug

External calibration models

- Net Weight: 6,3Kg

Internal calibration models

- Net Weight: 6,6Kg



Verified models: see page 34



Model	Max (g)	Readability [d] (mg)	Pan (mm)	Repeatability (St.Dev.) (mg)	Linearity (mg)	Response time (sec.)
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External calibration

M124A	120	0,1	Ø 80	0,1	± 0,3	≤ 4
M214A	220	0,1	Ø 80	0,1	± 0,3	≤ 4
M254A	250	0,1	Ø 80	0,1	± 0,3	≤ 4

Automatic internal calibration

M124Ai	120	0,1	Ø 80	0,1	± 0,3	≤ 4
M214Ai	220	0,1	Ø 80	0,1	± 0,3	≤ 4
M254Ai	250	0,1	Ø 80	0,1	± 0,3	≤ 4
M314Ai	310	0,1	Ø 80	0,1	± 0,4	≤ 4
M314Ai-ION	310	0,1	Ø 80	0,1	± 0,4	≤ 4
HPB-514Ai	510	0,1	Ø 80	0,1mg if weight ≤ 220g 0,3mg from 220g to 310g 0,35mg from 310g to 510g	± 0,5	≤ 4
HPB-514Ai-ION	510	0,1	Ø 80	0,1mg if weight ≤ 220g 0,3mg from 220g to 310g 0,35mg from 310g to 510g	± 0,5	≤ 4
HPB-614Ai	610	0,1	Ø 80	0,1mg if weight ≤ 220g 0,3mg from 220g to 310g 0,35mg from 310g to 610g	± 0,5	≤ 4
HPB-614Ai-ION	610	0,1	Ø 80	0,1mg if weight ≤ 220g 0,3mg from 220g to 310g 0,35mg from 310g to 610g	± 0,5	≤ 4
HPB-1004Ai	1000	0,1	Ø 80	0,3mg if weight ≤ 500g 0,4mg from 500g to 1000g	± 0,5	≤ 6
HPB-1004Ai-ION	1000	0,1	Ø 80	0,3mg if weight ≤ 500g 0,4mg from 500g to 1000g	± 0,5	≤ 6