

M5 analytical balances are the most innovative and advanced series made by BEL Engineering. Equipped with large 5" color touch screen display, it gives an user-friendly access to all the balance's advanced applications and internal databases.

The user has easy and intuitive access to all the functions thanks to the icon-driven menus. This means more efficiency, productivity and interactivity.

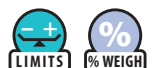
The -ION models are equipped with an integrated ioniser on the rear of the balance with the purpose to neutralize static electricity on charged samples like plastic parts, containers or films for acquiring the most accurate results.

A double case structure protects the heart of the balance: an aluminum inner case and a composite plastic external case.

Main features

- Electromagnetic force restoration weighing system
- User selectable environmental filter
- Highly integrated weighing cell
- Automatic internal calibration
- 5" Touch-screen Display 800x480
- RS232 serial interface
- Selectable and customizables measuring units
- Internal Database
- GLP
- Multi Languages (EN-DE-FR-IT-SP-PT-CN-RU)
- Multi-user with password protection
- USB port for import/export database data
- Advanced piececounting function with Statistics report
- Pipette check
- Textile function to measure fibers with Statistics report
- Advanced Density function, with density index (DI) calculation
- Formulation (Recipe)
- Checkweighing
- Percentual weighing
- Accumulation function
- Animal weighing
- Max load determination (Peak hold)
- Large glass draftshield with 3 sliding doors for easy access to the items being weighed

M5 - Readability 0,1mg



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

M5-M214Ai	220	0,1	Ø 80	0,1	± 0,3	≤ 4
M5-M214Ai-ION	220	0,1	Ø 80	0,1	± 0,3	≤ 4
M5-M254Ai	250	0,1	Ø 80	0,1	± 0,3	≤ 4
M5-M254Ai-ION	250	0,1	Ø 80	0,1	± 0,3	≤ 4
M5-M314Ai	310	0,1	Ø 80	0,1	± 0,3	≤ 4
M5-M314Ai-ION	310	0,1	Ø 80	0,1	± 0,3	≤ 4
M5-HPB-514i	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
M5-HPB-514i-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
M5-HPB-614i	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
M5-HPB-614i-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
M5-HPB-1004i	1000	0,1	Ø 80	0,3mg if weight ≤ 500g 0,4mg from 500g to 1000g	± 0,5	≤ 6
M5-HPB-1004i-ION	1000	0,1	Ø 80	0,3mg if weight ≤ 500g 0,4mg from 500g to 1000g	± 0,5	≤ 6

Verified models:
see page 36



Accessories

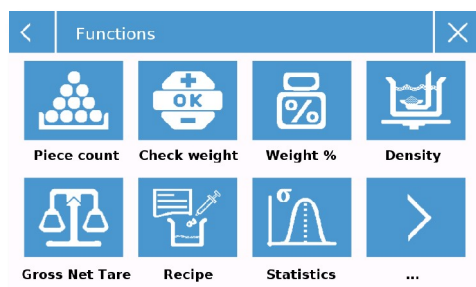
- Portable ioniser Ion-A15 (BL0371)
- Serial Printer TLP-50, with date/time (C054)
- Serial Printer DPP-250 (AC007)
- Density KIT for solids and liquids (AC002)
- Serial to USB converter (E1002)
- Serial cable for serial output to printer or PC (E743)
- USB pendrive 8 Gigabyte
- Stylus pen for touchscreen
- Factory Calibration certificate (BL0333)

Balance technical data

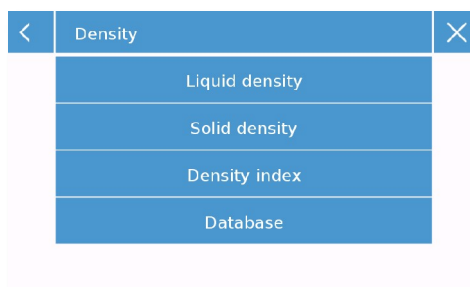
- Span drift (+ 10...+ 30 °C): ± 2 ppm/°C
- Dimensions LxWxH (mm): 345x215x345
- Weighing chamber dimensions LxWxH (mm): 162x171x225
- Power supply 110-230Vac, 50/60Hz; output 24V 1A multi plug
- Net Weight: 6,7 Kg
- Net Weight -ION models: 7,2 Kg

Ioniser technical data

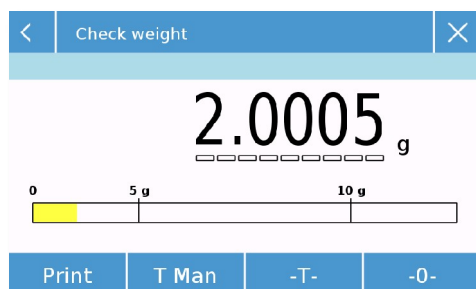
- Operation modes: 2 minutes or continuously for max 8 hours
- Ozone concentration: 0-0.05 ppm (2cm from ion source)
- Distance sample-ion source: about 5-40 cm
- Discharge time: 9s/5cm, 13s/10cm
- Ambient conditions: 0-50°C, 20-80% air humidity (non-condensing)
- Ioniser Power supply: IN AC 100-240V 50/60Hz, OUT DC 12V, 1A multi plug



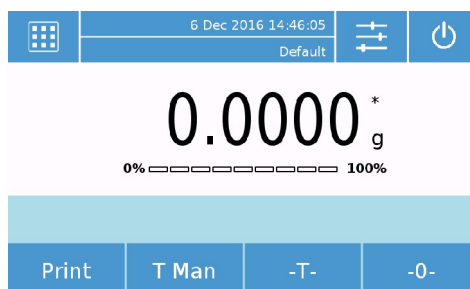
Main functions page for easy working



Easy selection for density function



Bright color indication for check weighing



Main page with easy access to the menus