

OPTIKA[®]
B A L A N C E S
I T A L Y



LABORATORY ELECTRONIC BALANCES

Legend



Electromagnetic Force Restoration. Coil in a permanent magnet for the the most accurate weighings



High Resolution Load Cell. Strain gauge measure the deformation as change in electrical resistance



RS232 Data Interface. To connect the balance to printer, PC, peripheral devices.



Measuring Units. Select the measuring unit that balance will use to display weight



Piececounting. Function to count identical items, reference quantities are selectable.



Checkweighing. Upper and lower limits can be set individually, for dosing and portioning.



Percentual Weighing. Function calculates the variation of a sample from reference value (100%)



Totalization Function. Measures cumulative weight of multiple items. Shows total and current weight



Animal Weighing. Accurate readings under unstable conditions such moving laboratory animals.



Density Determination. This function accurately determines density of a solid object or a liquid



Max Load (Peak hold). This function retains the peak value in a series of consecutive weights



Glp Setup. Allows storing identification data of balance, project and user. Date and Time



Date & Time. Balance shows current date and time



Multi Language. Several languages can be selected from the menu of the balance



Formulation. Allows setting recipes with name and tolerances for each ingredient. Automatic reproportioning



Suspended Weighing. A support with hook can be loaded on the underside of the balance



Initial verification. According to 2014/31/EU available for balance with EC/(OIML) Type approval



Accumulator. Balance has internal accumulator or can be used with optional external accumulator



Battery Operating. Balance can work using AA batteries



Statistics Function. Shows Min, Max, Sum, Average, Standard deviation



Gross-Net-Tare. Function shows simultaneously gross, net weight and tare.



Database. Internal database to store data and drying methods



Textile Function. Determines the title of a thread, measuring units: Tex, Td, Nm, Nc.



Drying Modes: different temperature profiles are available for drying process



Infrared Sensors. Touchless, to call TARE or PRINT functions without touching the balance



Touchscreen Display. 5 inch resistive display, user friendly, easy to use and intuitive.



LCD Display. Standard 8 digit LCD display with backlight



Graphic Display Text/graphical LCD dot matrix display with backlight.



Ioniser. Integrated ioniser on the back of the balances



Bluetooth. It is possible to connect bluetooth devices



USB interface. It is possible to connect a usb pendrive



Graph. Real time drying process graph visualization



Password. User profile can be password protected



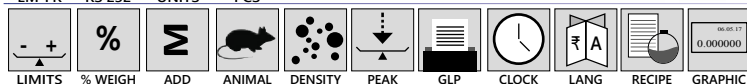
Memory. It is possible to store up to 5 different drying programs



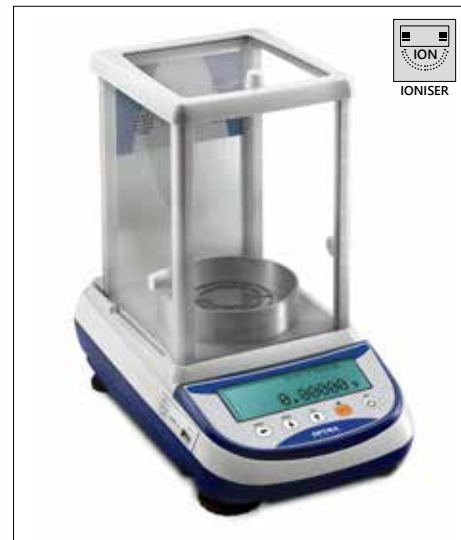
Optional Ioniser model ION-A15



All SMG models are equipped with the large graphic display for easy operations.



I-Model



I- models equipped with integrated ioniser on the back of the balance. The ioniser has two way of operating: 2 minutes or continuously for max 8 hours.

Internal Calibration

Model	Capacity (g)	Resolution (mg)	Pan (mm)	Repeatability (mg)	Linearity (mg)	Response time (sec.)
SMG625i	62	0,01	Ø 80	0,05	± 0,08	≤ 6
I-SMG625i	62	0,01	Ø 80	0,05	± 0,08	≤ 6
SMG105i	102	0,01	Ø 80	0,05	± 0,08	≤ 6
I-SMG105i	102	0,01	Ø 80	0,05	± 0,08	≤ 6
SMG1265Di	62/120	0,01/0,1	Ø 80	0,03 / 0,1	± 0,08 / ± 0,2	≤ 6
I-SMG1265Di	62/120	0,01/0,1	Ø 80	0,03 / 0,1	± 0,08 / ± 0,2	≤ 6
SMG2285Di	82/220	0,01/0,1	Ø 80	0,05 / 0,1	± 0,1 / ± 0,2	≤ 6
I-SMG2285Di	82/220	0,01/0,1	Ø 80	0,05 / 0,1	± 0,1 / ± 0,2	≤ 6
SMG22105Di	102/220	0,01/0,1	Ø 80	0,05 / 0,1	± 0,1 / ± 0,2	≤ 6
I-SMG22105Di	102/220	0,01/0,1	Ø 80	0,05 / 0,1	± 0,1 / ± 0,2	≤ 6

Accessories

- Ioniser Ion-A15 (CNS0371)
- Serial Printer TLP-50, with date/time (CNS054)
- Serial Printer DPP-250 (CNS007)
- Density KIT for solids and liquids (CNS002)
- Serial to USB converter (CNS1002)
- Serial cable for serial output to printer or PC (CNS743)
- Calibration certificate (CNS0333)

Features

- Electromagnetic force restoration weighing system
- Highly integrated weighing cell
- Recipe database: 99 recipes can be stored, each with up to 20 ingredients
- Large Graphic display allows efficient and easy operations
- Multilanguage: EN-DE-FR-IT-ES-PT
- GLP/ISO record keeping of weight values with date, time and serial number
- Large glass draught shield with 3 sliding doors for easy access to the items being weighed
- Plastic protection cover

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, 500mA