

OPTIKA[®]
B A L A N C E S
I T A L Y



LABORATORY ELECTRONIC BALANCES



OPTIKA®

I T A L Y

In 1971 **OPTIKA** was founded by a physics teacher with great capabilities in combining design skills with teaching sensitivity. In 1990's the second generation started to manufacture microscopes. The company is growing fast, passing from few employees to more than 60.

A team of physicists, chemists, biologists and scientists work to meet market demands by designing and producing durable, user-friendly scientific lab equipment.

Nowadays **OPTIKA** is a leading manufacturer and supplier of scientific instruments for educational, laboratory, industrial and medical use. Our mission is driven by the desire to exceed customers' expectations and provide our selected distribution network with valuable products.



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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: measure cumulative weight of multiple items. Shows total and current weight
-  **Animal Weighing:** accurate readings under unstable conditions such moving laboratory animals.
-  **Density Determination** function accurately determines density of a solid object or a liquid
-  **Max Load (Peak hold)** function: retains the peak value in a series of consecutive weights
-  **GLP Setup.** Allows to store 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 to set recipes with name and tolerances for each ingredient. Automatic reportioning
-  **Suspended Weighing:** a support with hook can be loaded on the underside of the balance
-  **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** technology, user friendly, easy to use and intuitive.
-  **Bluetooth** interface: 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

OPTIKA quick finder

Resolution	Weighing Range	Family Name	Page	M Verification	Tablet System	Internal Calibration	External Calibration	Windshield
0,01mg	42g...220g	SM	8		□	■		■
0,01mg	42g...220g	SMG	9			■		■
0,0001g	410g...610g	A	10		□	■		■
0,0001g	410g...610g	AG	11			■		■
0,0001g	120g...310g	B	12	□	□	■	■	■
0,0001g	120g...310g	BG	13	□		■	■	■
0,001g	220g...2100g	C	14	□	□	■	■	■
0,001g	220g...2100g	CH	15	□	□	■	■	■
0,001g	220g...2100g	CG	16	□		■	■	■
0,001g	220g...2100g	CGH	17	□		■	■	■
0,001g	160g...520g	E	20		□	■	■	■
0,001g	160g...520g	EG	21			■	■	■
0,001g	160g...520g	EH	22		□	■	■	■
0,001g	160g...520g	EGH	23			■	■	■
0,001g	120g...420g	H	28		□		■	■
0,01g	2200g...8200g	D	18	□	□	■	■	
0,01g	2200g...8200g	DG	19	□		■	■	
0,01g	1000g...5200g	F	24	□	□	■	■	
0,01g	1000g...5200g	FG	25	□		■	■	
0,01g	620g...4200g	I	29		□		■	
0,01g	200g...420g	M	31				■	
0,1g	4500g...2000g	G	26		□	■	■	
0,1g	4500g...2000g	GG	27			■	■	
0,1g	3200g...6500g	L	30		□		■	
0,1g	1000g...2200g	M	31				■	
0,1g-1g	8000g...32000g	N	35		□		■	

Moisture Balances

Resolution	Weighing Range	Family Name	Page	Thermometer Calibration	Tablet System	Halogen Infrared Lamp	External Calibration	Database
0,0001g	60g	TG	32	□		■	■	■
0,0001g	60g	T	34	□	□	■	■	
0,001g	160g	TG	32	□		■	■	■
0,001g	160g	T	34	□	□	■	■	
0,01g	60g	TG	32	□		■	■	■
0,01g	60g	T	34	□	□	■	■	

(■ = Standard □ = Optional ▲ = Only For Some Models)

OPTIKA quick finder

Lcd Display	Graphic Display	Rs2332	Units	Glp	Multi Language	Hook	Internal Accumulator	Battery / Battery Pack
■		■	■					
	■	■	■	■				
■		■	■					
	■	■	■	■	■			
■		■	■					
	■	■	■	■	■			
■		■	■			■		
■		■	■			■		
	■	■	■	■	■	■		
	■	■	■	■	■	■		
■		■	■			▲		□
	■	■	■	■	■	▲		□
■		■	■			▲		□
	■	■	■	■	■	▲		□
■		■	■				■	
■		■	■			■		
	■	■	■	■	■	■		
■		■	■			▲		□
	■	■	■	■	■	▲		□
■		■	■			■	■	
■			■					□
■		■	■			■		□
	■	■	■	■	■	■		□
■		■	■			■	■	
■			■					□
■		■	■			■		□

Lcd Display	Touch Screen Display	Rs2332	Units	Glp	Multi Language	Internal Database, Save results	Real time Graph View	Password protection
	■	■	■	■	■	■	■	■
■		■	■					
	■	■	■	■	■	■	■	■
■		■	■					
	■	■	■	■	■	■	■	■
■		■	■					

SM SERIES - Resolution 0,01mg

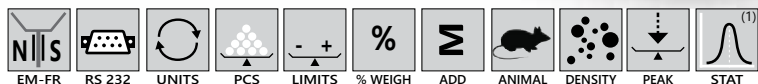
SemiMicro Balances

OPTIKA introduces the new series of semiMicro SM balances with a resolution of 0.01 mg. Equipped with the new highly integrated electromagnetic cell, with automatic internal calibration on all models, they are characterized by a high level of precision and repeatability.

As in the tradition of OPTIKA products, new semiMicro SM balances deliver an excellent performance/price ratio.



Optional Ioniser model ION-A15



Features

- Electromagnetic force restoration weighing system
- Highly integrated weighing cell
- Automatic internal calibration
- Efficient filtering to deliver quick and accurate results
- LCD with backlight with adjustable contrast
- Large glass draught shield with 3 sliding doors for easy access to the items being weighed
- Plastic protection cover for keypad

Technical data

Common features

- Span drift (+ 10...+ 30 °C): +/- 2ppm/°C
- Dimensions LxWxH (mm): 345x215x345
- Weighing chamber dimensions LxWxH (mm): 162x171x225
- Dimensions of external electronics box LxWxH: 175x105x50 (mm), weight 500g
- Power supply 110-230Vac, 50/60Hz; output 24V 500mA 13VA
- Net Weight: 7Kg

Internal calibration models

Net Weight: 6,6Kg

Internal Calibration

Model	Capacity (g)	Resolution (mg)	Pan (mm)	Repeatability (mg)	Linearity (mg)	Response time (sec.)
SM425i	42	0,01	Ø 80	0,05	± 0,05	≤ 6
SM625i	62	0,01	Ø 80	0,05	± 0,08	≤ 6
SM1245Di	42/120	0,01/0,1	Ø 80	0,02 / 0,1	± 0,05 / ± 0,2	≤ 6
SM1265Di	62/120	0,01/0,1	Ø 80	0,03 / 0,1	± 0,08 / ± 0,2	≤ 6
SM2245Di	42/220	0,01/0,1	Ø 80	0,02 / 0,1	± 0,1 / ± 0,2	≤ 6
SM2265Di	62/220	0,01/0,1	Ø 80	0,03 / 0,1	± 0,1 / ± 0,2	≤ 6
SM2285Di	82/220	0,01/0,1	Ø 80	0,05 / 0,1	± 0,1 / ± 0,2	≤ 6

Accessories

- Ioniser Ion-A15 (CNS0371)
- OPTIKA Tablet System for balances. USB version (T0329) or BLUETOOTH version (T0330).
- Bluetooth printer DPP-250-BT for OPTIKA Tablet system (CNS013)
- Serial Printer TLP-50, with date/time (CNS054)
- Serial Printer DPP-250 (CNS007)
- Serial Printer STAT, with Statistics functions (CNS022)
- Density KIT for solids and liquids (CNS002)
- Alphanumeric external keyboard (CNS005)
- Serial to USB converter (CNS1002)
- Serial cable for serial output to printer or PC (CNS743)
- Calibration certificate (CNS0333)

⁽¹⁾ If connected to optional STAT printer (CNS022)

SMG SERIES - Resolution 0,01mg

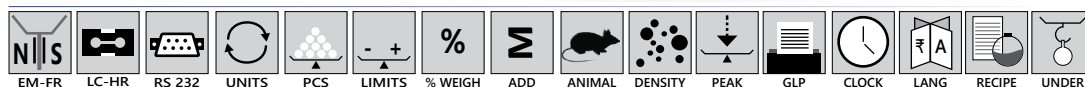


SemiMicro Balances

OPTIKA introduces the new series of semi-Micro SMG balances with a resolution of 0.01 mg. Equipped with the new highly integrated electromagnetic cell, with automatic internal calibration on all models, they are characterized by a high level of precision and repeatability. All SMG models are equipped with a large graphic display for easy operations. As in the tradition of OPTIKA products, new semiMicro SMG balances deliver an excellent performance/price ratio.



Optional Ioniser model ION-A15



Internal Calibration

Model	Capacity (g)	Resolution (mg)	Pan (mm)	Repeatability (mg)	Linearity (mg)	Response time (sec.)
SMG425i	42	0,01	Ø 80	0,05	± 0,05	≤ 6
SMG625i	62	0,01	Ø 80	0,05	± 0,08	≤ 6
SMG1245Di	42/120	0,01/0,1	Ø 80	0,02 / 0,1	± 0,05 / ± 0,2	≤ 6
SMG1265Di	62/120	0,01/0,1	Ø 80	0,03 / 0,1	± 0,08 / ± 0,2	≤ 6
SMG2245Di	42/220	0,01/0,1	Ø 80	0,02 / 0,1	± 0,1 / ± 0,2	≤ 6
SMG2265Di	62/220	0,01/0,1	Ø 80	0,03 / 0,1	± 0,1 / ± 0,2	≤ 6
SMG2285Di	82/220	0,01/0,1	Ø 80	0,05 / 0,1	± 0,1 / ± 0,2	≤ 6

Accessories

- Ioniser Ion-A15 (CNS0371)
- OPTIKA Tablet System for balances. USB version (T0329) or BLUETOOTH version (T0330).
- Bluetooth printer DPP-250-BT for OPTIKA Tablet system (CNS013)
- Serial Printer TLP-50, with date/time (CNS054)
- Serial Printer DPP-250 (CNS007)
- Density KIT for solids and liquids (CNS002)
- Alphanumeric external keyboard (CNS005)
- 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

Technical data

Common features

- Span drift (+ 10...+ 30 °C): +/- 2ppm/°C
- Dimensions LxWxH (mm): 345x215x345
- Weighing chamber dimensions LxWxH (mm): 162x171x225
- Dimensions of external electronics box Lx-WxH: 175x105x50 (mm), weight 500g
- Power supply 110-230Vac, 50/60Hz; output 24V 500mA 13VA

Internal calibration models

Net Weight: 7Kg

A SERIES - Resolution 0,0001g



Analytical Balances

A series (High Performance Balance) family includes Analytical Balances that reach the highest measuring performance. They are equipped with a highly integrated weighing cell whose benefits are high stability against temperature changes and time, quick response thanks to reduced mass and overall reduction of total number of components.

A balances have -as standard- automatic internal calibration that allows always precise measurements, practically independent from environment temperature changes.

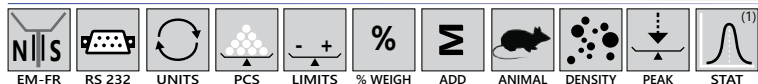
Analytical Balances of A series come with capacities (Max) 410g, 510g and 610g.

All models are equipped with backlit LCD display, a glass draft windshield that protects a large volume inner measuring chamber.

Each balance is equipped with RS232 output interface.



Optional Ioniser model ION-A15



Features

- Electromagnetic force restoration weighing system
- Highly integrated weighing
- Automatic internal calibration
- LCD with backlight with adjustable contrast
- Large glass draught shield with 3 sliding doors for easy access to the items being weighed
- Plastic protection cover

Technical data

Common features

- Span drift (+ 10...+ 30 °C): +/- 2ppm/°C
- Dimensions LxWxH (mm): 345x215x345
- Weighing chamber dimensions LxWxH (mm): 162x171x225
- Dimensions of external electronics box LxWxH: 175x105x50 (mm), weight 500g
- Power supply 110-230Vac, 50/60Hz; output 24V 500mA 13VA

Internal calibration models

Net Weight: 6,6Kg

Internal Calibration

Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatability (g)	Linearity (g)	Response time (sec.)
A414Ai	410	0,0001	Ø 80	0,1mg if weight ≤ 220g 0,3mg from 220g to 310g 0,35mg from 310g to 410g	± 0,0005	≤ 4
A514Ai	510	0,0001	Ø 80	0,1mg if weight ≤ 220g 0,3mg from 220g to 310g 0,35mg from 310g to 510g	± 0,0005	≤ 4
A614Ai	610	0,0001	Ø 80	0,1mg if weight ≤ 220g 0,3mg from 220g to 310g 0,35mg from 310g to 610g	± 0,0005	≤ 4

Accessories

- Ioniser Ion-A15 (CNS0371)
- Serial Printer TLP-50, with date/time (CNS054)
- OPTIKA Tablet System for balances. USB version (T0329) or BLUETOOTH version (T0330).
- Bluetooth printer DPP-250-BT for OPTIKA Tablet system (CNS013)
- Serial Printer DPP-250 (CNS007)
- Serial Printer STAT, with Statistics functions (CNS022)
- Density KIT for solids and liquids (CNS002)
- Alphanumeric external keyboard (CNS005)
- Serial to USB converter (CNS1002)
- Serial cable for serial output to printer or PC (CNS743)
- Calibration certificate (CNS0333)

⁽¹⁾ If connected to optional STAT printer (CNS022)

AG SERIES - Resolution 0,0001g



Analytical Balances

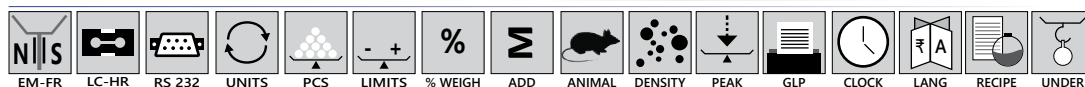
AG series (High Performance Balance) family includes Analytical Balances that reach the highest measuring performance.

They are equipped with a highly integrated weighing cell whose benefits are high stability against temperature changes and time, quick response thanks to reduced mass and overall reduction of total number of components. AG balances have -as standard- automatic internal calibration that allows always precise measurements, practically independent from environment temperature changes. Analytical Balances of AG series come with capacities (Max) 410g, 510g and 610g.

All models are equipped with backlit large graphic display, a glass draft windshield that protects a large volume inner measuring chamber and RS232 output interface.



Optional Ioniser model ION-A15



Internal Calibration

Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatability (g)	Linearity (g)	Response time (sec.)
AG414Ai	410	0,0001	Ø 80	0,1mg if weight ≤ 220g 0,3mg from 220g to 310g 0,35mg from 310g to 410g	± 0,0005	≤ 4
AG514Ai	510	0,0001	Ø 80	0,1mg if weight ≤ 220g 0,3mg from 220g to 310g 0,35mg from 310g to 510g	± 0,0005	≤ 4
AG614Ai	610	0,0001	Ø 80	0,1mg if weight ≤ 220g 0,3mg from 220g to 310g 0,35mg from 310g to 610g	± 0,0005	≤ 4

Accessories

- Ioniser Ion-A15 (CNS0371)
- Serial Printer TLP-50, with date/time (CNS054)
- OPTIKA Tablet System for balances. USB version (T0329) or BLUETOOTH version (T0330).
- Bluetooth printer DPP-250-BT for OPTIKA Tablet system (CNS013)
- Serial Printer DPP-250 (CNS007)
- Density KIT for solids and liquids (CNS002)
- Alphanumeric external keyboard (CNS005)
- 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.
- 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

Technical data

Common features

- Span drift (+ 10...+ 30 °C): +/- 2ppm/°C
- Dimensions LxWxH (mm): 345x215x345
- Weighing chamber dimensions LxWxH (mm): 162x171x225
- Dimensions of external power supply box LxWxH: 175x105x50 (mm), weight 500g
- Power supply 110-230Vac, 50/60Hz; output 24V 500mA 13VA

Internal calibration models

Net Weight: 6,6Kg

B SERIES - Resolution 0,0001g



Analytical Balances

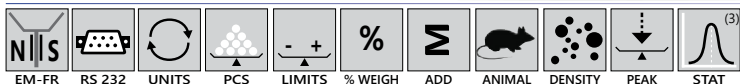
A Top Quality series of Analytical Balances that combine elegance with highly reliable measuring performance. Double case structure, ergonomic keypad, external or internal calibration. Many embedded advanced features make them perfect for use in laboratory, research departments, formulation and quality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

Features

- Electromagnetic force restoration weighing system
- External or automatic internal calibration
- LCD with backlight with adjustable contrast
- Large glass draught shield with 3 sliding doors for easy access to the items being weighed
- Plastic protection cover



Optional Ioniser model ION-A15



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 500mA 13VA

External calibration models

Net Weight: 6,3Kg

Internal calibration models

Net Weight: 6,6Kg

Accessories

- Ioniser Ion-A15 (CNS0371)
- OPTIKA Tablet System for balances. USB version (T0329) or BLUETOOTH version (T0330).⁽¹⁾
- Bluetooth printer DPP-250-BT for OPTIKA Tablet system (CNS013)
- Serial Printer TLP-50, with date/time (CNS054)
- Serial Printer DPP-250 (CNS007)
- Serial Printer STAT, with Statistics functions (CNS022)
- Density KIT for solids and liquids (CNS002)
- Alphanumeric external keyboard (CNS005)
- Serial to USB converter (CNS1002)
- Serial cable for serial output to printer or PC (CNS743)
- Calibration certificate (CNS0333)
- Conformity Declaration (Verification)

External Calibration

Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatability (g)	Linearity (g)	Response time (sec.)	Verification (optional) ⁽²⁾ M
B124A	120	0,0001	Ø 80	0,0001	± 0,0003	≤ 4	–
B164A	160	0,0001	Ø 80	0,0001	± 0,0003	≤ 4	–
B214A	220	0,0001	Ø 80	0,0001	± 0,0003	≤ 4	–
B254A	250	0,0001	Ø 80	0,0001	± 0,0003	≤ 4	–

Automatic Internal Calibration

Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatability (g)	Linearity (g)	Response time (sec.)	Verification (optional) ⁽²⁾ M
B124Ai	120	0,0001	Ø 80	0,0001	± 0,0003	≤ 4	M
B164Ai	160	0,0001	Ø 80	0,0001	± 0,0003	≤ 4	M
B214Ai	220	0,0001	Ø 80	0,0001	± 0,0003	≤ 4	M
B254Ai	250	0,0001	Ø 80	0,0001	± 0,0003	≤ 4	M
B314Ai	310	0,0001	Ø 80	0,0001	± 0,0004	≤ 4	–

⁽¹⁾ Not available for verified models

⁽²⁾To order Verification please add -M to name, e.g. B214Ai-M

⁽³⁾ If connected to optional STAT printer (CNS022)

BG SERIES - Resolution 0,0001g

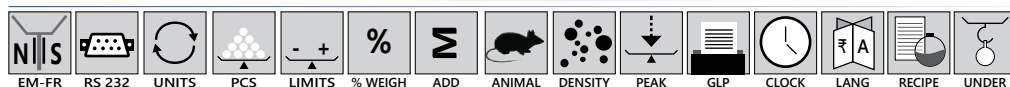


Analytical Balances

A Top Quality series of Analytical Balances that combine elegance with highly reliable measuring performance. Double case structure, ergonomic keypad. BG balances have an extensive recipe database and many embedded advanced features make them perfect for use in laboratory, research departments, formulation and quality control applications.

Features

- Electromagnetic force restoration weighing system
- External or automatic internal calibration
- 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



External Calibration

Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatability (g)	Linearity (g)	Response time (sec.)	Verification (optional) ² M
BG124A	120	0,0001	Ø 80	0,0001	± 0,0003	≤ 4	–
BG164A	160	0,0001	Ø 80	0,0001	± 0,0003	≤ 4	–
BG214A	220	0,0001	Ø 80	0,0001	± 0,0003	≤ 4	–
BG254A	250	0,0001	Ø 80	0,0001	± 0,0003	≤ 4	–

Automatic Internal Calibration

Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatability (g)	Linearity (g)	Response time (sec.)	Verification (optional) ² M
BG124Ai	120	0,0001	Ø 80	0,0001	± 0,0003	≤ 4	M
BG164Ai	160	0,0001	Ø 80	0,0001	± 0,0003	≤ 4	M
BG214Ai	220	0,0001	Ø 80	0,0001	± 0,0003	≤ 4	M
BG254Ai	250	0,0001	Ø 80	0,0001	± 0,0003	≤ 4	M
BG314Ai	310	0,0001	Ø 80	0,0001	± 0,0004	≤ 4	–

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 500mA 13VA

External calibration models

Net Weight: 6,3Kg

Internal calibration models

Net Weight: 6,6Kg

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)
- Alphanumeric external keyboard (CNS005)
- Serial to USB converter (CNS1002)
- Serial cable for serial output to printer or PC (CNS743)
- Calibration certificate (CNS0333)
- Conformity Declaration (Verification)

¹) Not available for verified models

²)To order Verification please add -M to name, e.g. B214Ai-M

C SERIES - Resolution 0,001g

Precision Balances

A Top Quality series of Precision 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.

Features

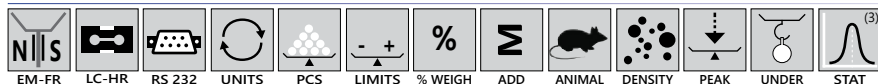
- Electromagnetic force restoration weighing system
- External or automatic internal calibration
- LCD with backlight with adjustable contrast
- Round glass windshield
- Plastic protection cover
- Under hook weighing (1)

Optional functions

Paper Grammage Function (T219)



Optional Ioniser model ION-A15



Technical data

Common features

- Span drift (+ 10...+ 30 °C): +/- 4ppm/°C
- Dimensions LxWxH (mm): 345x215x155
- Weighing chamber dimensions diameter-Height (mm): 150x70
- Power supply 110-230Vac, 50/60Hz; output 24V 500mA 13VA

External calibration models

Net Weight: 4,6Kg

Internal calibration models

Net Weight: 4,9Kg

External Calibration

Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatability (g)	Linearity (g)	Response time (sec.)	Verification (optional) ⁽²⁾ M
C223	220	0,001	Ø 110	0,0005	± 0,002	≤ 2	–
C333	330	0,001	Ø 110	0,0005	± 0,002	≤ 2	–
C523	520	0,001	Ø 110	0,001	± 0,002	≤ 2	–
C723	720	0,001	Ø 110	0,001	± 0,002	≤ 2	–
C1003	1000	0,001	Ø 110	0,001	± 0,003	≤ 3	–
C1203	1200	0,001	Ø 110	0,001	± 0,003	≤ 3	–
C1003D	500/1000	0,001/0,01	Ø 110	0,001/0,005	± 0,001/± 0,01	≤ 2	–
C1203D	720/1200	0,001/0,01	Ø 110	0,001/0,005	±0,002/±0,01	≤ 2	–

Internal Automatic Calibration

Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatability (g)	Linearity (g)	Response time (sec.)	Verification (optional) ⁽²⁾ M
C223i	220	0,001	Ø 110	0,0005	± 0,002	≤ 2	M
C333i	330	0,001	Ø 110	0,0005	± 0,002	≤ 2	M
C523i	520	0,001	Ø 110	0,001	± 0,002	≤ 2	M
C723i	720	0,001	Ø 110	0,001	± 0,002	≤ 2	M
C1003i	1000	0,001	Ø 110	0,001	± 0,003	≤ 3	–
C1203i	1200	0,001	Ø 110	0,001	± 0,003	≤ 3	–
C1003Di	500/1000	0,001/0,01	Ø 110	0,001/0,005	± 0,001/± 0,01	≤ 2	M
C1203Di	720/1200	0,001/0,01	Ø 110	0,001/0,005	±0,002/±0,01	≤ 2	M

Accessories

- Ioniser Ion-A15 (CNS0371)
- OPTIKA Tablet System for balances. USB version (T0329) or BLUETOOTH version (T0330). (1)
- Bluetooth printer DPP-250-BT for OPTIKA Tablet system (CNS013)
- Serial Printer TLP-50, with date/time (CNS054)
- Serial Printer DPP-250 (CNS007)
- Serial Printer STAT, with Statistics functions (CNS022)
- Density KIT for solids and liquids (CNS002)
- Density KIT for solids (CNS001)
- Alphanumeric external keyboard (CNS005)
- Serial to USB converter (CNS1002)
- Serial cable for serial output to printer or PC (CNS743)
- Calibration certificate (CNS0333)
- Conformity Declaration (Verification)

⁽¹⁾ Not available for verified models

⁽²⁾ To order Verification please add -M to name, e.g. B214Ai-M

⁽³⁾ If connected to optional STAT printer (CNS022)

CH SERIES - Resolution 0,001g



Precision Balances

A Top Quality series of Precision 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 and quality control applications.

Features

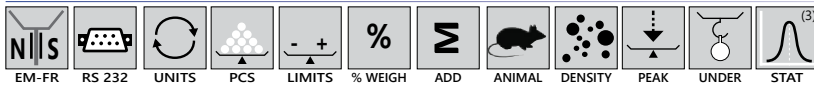
- Electromagnetic force restoration weighing system
- External or automatic internal calibration
- LCD with backlight with adjustable contrast
- Large glass draught shield with 3 sliding doors for easy access to the items being weighed
- Plastic protection cover
- Under hook weighing (1)

Optional functions

Paper Grammage Function (T219)



Optional Ioniser model ION-A15



External Calibration

Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatability (g)	Linearity (g)	Response time (sec.)	Verification (optional2)M
CH223	220	0,001	Ø 110	0,0005	± 0,002	≤ 2	–
CH333	330	0,001	Ø 110	0,0005	± 0,002	≤ 2	–
CH523	520	0,001	Ø 110	0,001	± 0,002	≤ 2	–
CH723	720	0,001	Ø 110	0,001	± 0,002	≤ 2	–
CH1003	1000	0,001	Ø 110	0,001	± 0,003	≤ 3	–
CH1203	1200	0,001	Ø 110	0,001	± 0,003	≤ 3	–
CH1003D	500/1000	0,001/0,01	Ø 110	0,001/0,005	± 0,001/± 0,01	≤ 2	–
CH1203D	720/1200	0,001/0,01	Ø 110	0,001/0,005	± 0,002/± 0,01	≤ 2	–

Internal Automatic Calibration

Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatability (g)	Linearity (g)	Response time (sec.)	Verification (optional2)M
CH223i	220	0,001	Ø 110	0,0005	± 0,002	≤ 2	M
CH333i	330	0,001	Ø 110	0,0005	± 0,002	≤ 2	M
CH523i	520	0,001	Ø 110	0,001	± 0,002	≤ 2	M
CH723i	720	0,001	Ø 110	0,001	± 0,002	≤ 2	M
CH1003i	1000	0,001	Ø 110	0,001	± 0,003	≤ 3	–
CH1203i	1200	0,001	Ø 110	0,001	± 0,003	≤ 3	–
CH2103i	2100	0,001	Ø 110	0,001	± 0,005	≤ 3	–
CH1003Di	500/1000	0,001/0,01	Ø 110	0,001/0,005	± 0,001/± 0,01	≤ 2	M
CH1203Di	720/1200	0,001/0,01	Ø 110	0,001/0,005	± 0,002/± 0,01	≤ 2	M

Technical data

Common features

- Span drift (+ 10...+ 30 °C): +/- 4ppm/°C
- Dimensions LxWxH (mm): 345x215x345
- Weighing chamber dimensions LxWxH (mm): 162x171x225
- Power supply 110-230Vac, 50/60Hz; output 24V 500mA 13VA

External calibration models

Net Weight: 6,1Kg

Internal calibration models

Net Weight: 6,3Kg

Accessories

- Ioniser Ion-A15 (CNS0371)
- OPTIKA Tablet System for balances. USB version (T0329) or BLUETOOTH version (T0330).⁽¹⁾
- Bluetooth printer DPP-250-BT for OPTIKA Tablet system (CNS013)
- Serial Printer TLP-50, with date/time (CNS054)
- Serial Printer DPP-250 (CNS007)
- Serial Printer STAT, with Statistics functions (CNS022)
- Density KIT for solids and liquids (CNS002)
- Alphanumeric external keyboard (CNS005)
- Serial to USB converter (CNS1002)
- Serial cable for output to printer/PC (CNS743)
- Calibration certificate (CNS0333)
- Conformity Declaration (Verification)

⁽¹⁾ Not available for verified models

⁽²⁾ To order Verification please add -M to name, e.g. B214Ai-M

⁽³⁾ If connected to optional STAT printer (CNS022)

Precision Balances

Double case structure, ergonomic keypad. CG balances have an extensive recipe database and many embedded advanced features make them perfect for use in laboratory, research departments, formulation and quality control applications.

Features

- Electromagnetic force restoration weighing system
- External or automatic internal calibration
- 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
- Round glass windshield
- Plastic protection cover
- Under hook weighing (1)



Technical data

Common features

- Span drift (+ 10...+ 30 °C): +/- 4ppm/°C
- Dimensions LxWxH (mm): 345x215x155
- Weighing chamber dimensions diameter-Height (mm): 150x70
- Power supply 110-230Vac, 50/60Hz; output 24V 500mA 13VA

External calibration models

Net Weight: 4,6Kg

Internal calibration models

Net Weight: 4,9Kg

External Calibration

Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatability (g)	Linearity (g)	Response time (sec.)	Verification (optional)2)M
CG223	220	0,001	Ø 110	0,0005	± 0,002	≤ 2	-
CG333	330	0,001	Ø 110	0,0005	± 0,002	≤ 2	-
CG523	520	0,001	Ø 110	0,001	± 0,002	≤ 2	-
CG723	720	0,001	Ø 110	0,001	± 0,002	≤ 2	-
CG1003	1000	0,001	Ø 110	0,001	± 0,003	≤ 3	-
CG1203	1200	0,001	Ø 110	0,001	± 0,003	≤ 3	-
CG1003D	500/1000	0,001/0,01	Ø 110	0,001/0,005	± 0,001/± 0,01	≤ 2	-
CG1203D	720/1200	0,001/0,01	Ø 110	0,001/0,005	± 0,001/± 0,01	≤ 2	-

Internal Automatic Calibration

Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatability (g)	Linearity (g)	Response time (sec.)	Verification (optional)2)M
CG223i	220	0,001	Ø 110	0,0005	± 0,002	≤ 2	M
CG333i	330	0,001	Ø 110	0,0005	± 0,002	≤ 2	M
CG523i	520	0,001	Ø 110	0,001	± 0,002	≤ 2	M
CG723i	720	0,001	Ø 110	0,001	± 0,002	≤ 2	M
CG1003i	1000	0,001	Ø 110	0,001	± 0,003	≤ 3	-
CG1203i	1200	0,001	Ø 110	0,001	± 0,003	≤ 3	-
CG1003Di	500/1000	0,001/0,01	Ø 110	0,001/0,005	± 0,001/± 0,01	≤ 2	M
CG1203Di	720/1200	0,001/0,01	Ø 110	0,001/0,005	± 0,001/± 0,01	≤ 2	M

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)
- Density KIT for solids (CNS001)
- Alphanumeric external keyboard (CNS005)
- Serial to USB converter (CNS1002)
- Serial cable for serial output to printer or PC (CNS743)
- Calibration certificate (CNS0333)
- Conformity Declaration (Verification)

⁽¹⁾ Not available for verified models

⁽²⁾ To order Verification please add -M to name, e.g. B214Ai-M

CGH SERIES - Resolution 0,001g

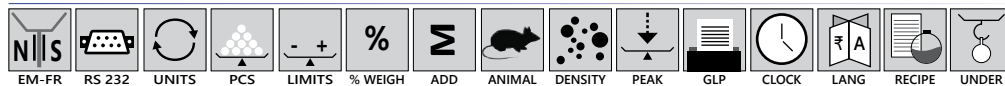


Precision Balances

A Top Quality series of Precision Balances that combine elegance with highly reliable measuring performance. Double case structure, ergonomic keypad. CGH balances have an extensive recipe database and many embedded advanced features make them perfect for use in laboratory, research departments, formulation and quality control applications.

Features

- Electromagnetic force restoration weighing system
- External or automatic internal calibration
- 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
- Plastic protection cover
- Under hook weighing (1)



External Calibration

Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatability (g)	Linearity (g)	Response time (sec.)	Verification (optional)2)M
CGH223	220	0,001	Ø 110	0,0005	± 0,002	≤ 2	-
CGH333	330	0,001	Ø 110	0,0005	± 0,002	≤ 2	-
CGH523	520	0,001	Ø 110	0,001	± 0,002	≤ 2	-
CGH723	720	0,001	Ø 110	0,001	± 0,002	≤ 2	-
CGH1003	1000	0,001	Ø 110	0,001	± 0,003	≤ 3	-
CGH1203	1200	0,001	Ø 110	0,001	± 0,003	≤ 3	-
CGH1003D	500/1000	0,001/0,01	Ø 110	0,001/0,005	± 0,001/± 0,01	≤ 2	-
CGH1203D	720/1200	0,001/0,01	Ø 110	0,001/0,005	± 0,001/± 0,01	≤ 2	-

Internal Automatic Calibration

Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatability (g)	Linearity (g)	Response time (sec.)	Verification (optional)2)M
CGH223i	220	0,001	Ø 110	0,0005	± 0,002	≤ 2	M
CGH333i	330	0,001	Ø 110	0,0005	± 0,002	≤ 2	M
CGH523i	520	0,001	Ø 110	0,001	± 0,002	≤ 2	M
CGH723i	720	0,001	Ø 110	0,001	± 0,002	≤ 2	M
CGH1003i	1000	0,001	Ø 110	0,001	± 0,003	≤ 3	-
CGH1203i	1200	0,001	Ø 110	0,001	± 0,003	≤ 3	-
CGH2103i	2100	0,001	Ø 110	0,001	± 0,005	≤ 3	-
CGH1003Di	500/1000	0,001/0,01	Ø 110	0,001/0,005	± 0,001/± 0,01	≤ 2	M
CGH1203Di	720/1200	0,001/0,01	Ø 110	0,001/0,005	± 0,001/± 0,01	≤ 2	M

Technical data

Common features

- Span drift (+ 10...+ 30 °C): +/- 4ppm/°C
- Dimensions LxWxH (mm): 345x215x345
- Weighing chamber dimensions LxWxH (mm): 162x171x225
- Power supply 110-230Vac, 50/60Hz; output 24V 500mA 13VA

External calibration models

Net Weight: 6,1Kg

Internal calibration models

Net Weight: 6,3Kg

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)
- Density KIT for solids (CNS001)
- Alphanumeric external keyboard (CNS005)
- Serial to USB converter (CNS1002)
- Serial cable for serial output to printer or PC (CNS743)
- Calibration certificate (CNS0333)
- Conformity Declaration (Verification)

⁽¹⁾ Not available for verified models

⁽²⁾To order Verification please add -M to name, e.g. B214Ai-M

D SERIES - Resolution 0,01g

Precision Balances

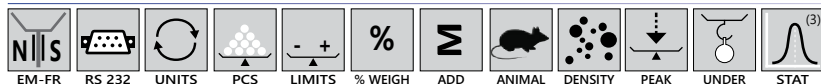
Balances series D combine the nice OPTIKA design with high level performance, guaranteed by the electromagnetic force restoration weighing cell. Double case structure, ergonomic keypad, external or internal calibration. Many embedded advanced features make them ideal instruments for your work in laboratory, research and quality control applications.

Features

- Electromagnetic force restoration weighing system
- External or automatic internal calibration
- LCD with backlight with adjustable contrast
- Plastic protection cover
- Under hook weighing (1)

Optional functions

Paper Grammage Function (T219)



Technical data

Common features

- Span drift (+ 10...+ 30 °C): +/- 4ppm/°C
- Dimensions LxWxH (mm): 345x215x100
- Power supply 110-230Vac, 50/60Hz; output 24V 500mA 13VA

External calibration models

Net Weight: 4,6Kg

Internal calibration models

Net Weight: 5,1Kg

External Calibration

Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatability (g)	Linearity (g)	Response time (sec.)	Verification (optional) ⁽²⁾ M
D2202	2200	0,01	Ø 160	0,005	± 0,02	≤ 2	–
D3102	3100	0,01	Ø 160	0,01	± 0,02	≤ 2	–
D4202	4200	0,01	Ø 160	0,01	± 0,03	≤ 2	–
D5202	5200	0,01	Ø 160	0,01	± 0,03	≤ 3	–
D6202	6200	0,01	Ø 160	0,01	± 0,03	≤ 3	–
D8202	8200	0,01	Ø 160	0,01	± 0,04	≤ 3	–
D5502D	800/5500	0,01/0,1	Ø 160	0,005/0,03	± 0,01/± 0,1	≤ 2	–
D5202D	3000/5200	0,01/0,1	Ø 160	0,01/0,03	± 0,02/± 0,1	≤ 2	–
D6202D	4000/6200	0,01/0,1	Ø 160	0,01/0,03	± 0,03/± 0,1	≤ 3	–

Automatic Internal Calibration

Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatability (g)	Linearity (g)	Response time (sec.)	Verification (optional) ⁽²⁾ M
D2202i	2200	0,01	Ø 160	0,01	± 0,02	≤ 2	M
D3102i	3100	0,01	Ø 160	0,01	± 0,02	≤ 2	M
D4202i	4200	0,01	Ø 160	0,01	± 0,03	≤ 2	M
D5202i	5200	0,01	Ø 160	0,01	± 0,03	≤ 3	M
D6202i	6200	0,01	Ø 160	0,01	± 0,03	≤ 3	M
D5502Di	800/5500	0,01/0,1	Ø 160	0,005/0,03	± 0,01/± 0,1	≤ 2	M
D5202Di	3000/5200	0,01/0,1	Ø 160	0,01/0,03	± 0,02/± 0,1	≤ 2	M
D6202Di	4000/6200	0,01/0,1	Ø 160	0,01/0,03	± 0,03/± 0,1	≤ 3	M

Accessories

- OPTIKA Tablet System for balances. USB version (T0329) or BLUETOOTH version (T0330). (1)
- Bluetooth printer DPP-250-BT for OPTIKA Tablet system (CNS013)
- Serial Printer TLP-50, with date/time (CNS054)
- Serial Printer DPP-250 (CNS007)
- Serial Printer STAT, with Statistics functions (CNS022)
- Density KIT for solids and liquids (CNS002)
- Density KIT for solids (CNS001)
- Alphanumeric external keyboard (CNS005)
- Serial to USB converter (CNS1002)
- Serial cable for serial output to printer or PC (CNS743)
- Calibration certificate (CNS0333)
- Conformity Declaration (Verification)

⁽¹⁾ Not available for verified models

⁽²⁾ To order Verification please add -M to name, e.g. B214Ai-M

⁽³⁾ If connected to optional STAT printer (CNS022)

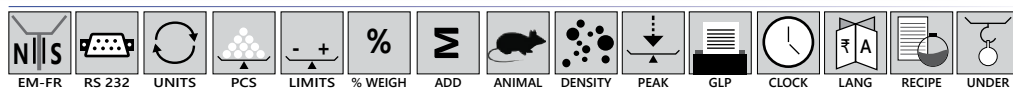
DG SERIES - Resolution 0,01g

Precision Balances

Balances series DG combine the nice OPTIKA design with high level performance, guaranteed by the electromagnetic force restoration weighing cell. Double case structure, ergonomic keypad. DG balances have an extensive recipe database and many embedded advanced features make them ideal for your work in laboratory, research departments, formulation and quality control applications.

Features

- Electromagnetic force restoration weighing system
- External or automatic internal calibration
- 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
- Plastic protection cover
- Under hook weighing (1)



External Calibration

Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatability (g)	Linearity (g)	Response time (sec.)	Verification (optional) ²⁾ M
DG2202	2200	0,01	Ø 160	0,005	± 0,02	≤ 2	-
DG3102	3100	0,01	Ø 160	0,01	± 0,02	≤ 2	-
DG4202	4200	0,01	Ø 160	0,01	± 0,03	≤ 2	-
DG5202	5200	0,01	Ø 160	0,01	± 0,03	≤ 3	-
DG6202	6200	0,01	Ø 160	0,01	± 0,03	≤ 3	-
DG8202	8200	0,01	Ø 160	0,01	± 0,04	≤ 3	-
DG5502D	800/5500	0,01/0,1	Ø 160	0,005/0,03	± 0,01/± 0,1	≤ 2	-
DG5202D	3000/5200	0,01/0,1	Ø 160	0,01/0,03	± 0,02/± 0,1	≤ 2	-
DG6202D	4000/6200	0,01/0,1	Ø 160	0,01/0,03	± 0,03/± 0,1	≤ 3	-

Automatic Internal Calibration

Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatability (g)	Linearity (g)	Response time (sec.)	Verification (optional) ²⁾ M
DG2202i	2200	0,01	Ø 160	0,01	± 0,02	≤ 2	M
DG3102i	3100	0,01	Ø 160	0,01	± 0,02	≤ 2	M
DG4202i	4200	0,01	Ø 160	0,01	± 0,03	≤ 2	M
DG5202i	5200	0,01	Ø 160	0,01	± 0,03	≤ 3	M
DG6202i	6200	0,01	Ø 160	0,01	± 0,03	≤ 3	M
DG5502Di	800/5500	0,01/0,1	Ø 160	0,005/0,03	± 0,01/± 0,1	≤ 2	M
DG5202Di	3000/5200	0,01/0,1	Ø 160	0,01/0,03	± 0,02/± 0,1	≤ 2	M
DG6202Di	4000/6200	0,01/0,1	Ø 160	0,01/0,03	± 0,03/± 0,1	≤ 3	M

Technical data

Common features

- Span drift (+ 10...+ 30 °C): +/- 4ppm/°C
- Dimensions LxWxH (mm): 345x215x100
- Power supply 110-230Vac, 50/60Hz; output 24V 500mA 13VA

External calibration models

Net Weight: 4,6Kg

Internal calibration models

Net Weight: 5,1Kg

Accessories

- Serial Printer TLP-50, with date/time (CNS054)
- Serial Printer DPP-250 (CNS007)
- Density KIT for solids and liquids (CNS002)
- Density KIT for solids (CNS001)
- Alphanumeric external keyboard (CNS005)
- Serial to USB converter (CNS1002)
- Serial cable for serial output to printer or PC (CNS743)
- Calibration certificate (CNS0333)
- Conformity Declaration (Verification)

¹⁾ Not available for verified models

²⁾To order Verification please add -M to name, e.g. B214Ai-M

E SERIES - Resolution 0,001g

Precision Balances

Balances E series are a synthesis of design, performance and convenience. Thanks to a sophisticated software and to a high-performance load cell, these balances deliver top performance at competitive prices. Double case structure, ergonomic keypad, external or internal calibration. Many embedded advanced features make them perfect for your work.

Features

- High resolution load cell weighing system
- External or automatic internal calibration
- LCD with backlight with adjustable contrast
- Round glass windshield
- Plastic protection cover
- Under hook weighing (1)

Optional functions

Paper Grammage Function (T219)



Optional Tablet system to expand balance functions



Technical data

Common features

- Span drift (+ 10...+ 30 °C): +/- 4ppm/°C
- Dimensions LxWxH (mm): 345x215x155
- Weighing chamber dimensions diameter-Height (mm): 150x70
- Power supply 110-230Vac, 50/60Hz; output 9V 1,2A 10VA

External calibration models

Net Weight: 3,3Kg

Internal calibration models

Net Weight: 3,6Kg

Accessories

- Ioniser Ion-A15 (CNS0371)
- OPTIKA Tablet System for balances. USB version (T0329) or BLUETOOTH version (T0330). ⁽¹⁾
- Bluetooth printer DPP-250-BT for OPTIKA Tablet system (CNS013)
- Serial Printer TLP-50, with date/time (CNS054)
- Serial Printer DPP-250 (CNS007)
- Serial Printer STAT, with Statistics functions (CNS022)
- Portable rechargeable battery pack (CNS015)
- Density KIT for solids and liquids (CNS002)
- Density KIT for solids (CNS001)
- Alphanumeric external keyboard (CNS005)
- Serial to USB converter (CNS1002)
- Serial cable for serial output to printer or PC (CNS743)
- Calibration certificate (CNS0333)

External Calibration

Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatability (g)	Linearity (g)	Response time (sec.)
E163	160	0,001	Ø 110	0,0006	± 0,003	≤ 3
E203	210	0,001	Ø 110	0,0006	± 0,003	≤ 3
E303	310	0,001	Ø 110	0,0006	± 0,003	≤ 3
E303D	150/310	0,001/0,01	Ø 110	0,0006/0,005	± 0,003/± 0,02	≤ 3
E423	420	0,001	Ø 110	0,001	± 0,004	≤ 4
E523	520	0,001	Ø 110	0,001	± 0,004	≤ 4

Automatic Internal Calibration

Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatability (g)	Linearity (g)	Response time (sec.)
E163i	160	0,001	Ø 110	0,0006	± 0,003	≤ 3
E203i	210	0,001	Ø 110	0,0006	± 0,003	≤ 3
E303i	310	0,001	Ø 110	0,0006	± 0,003	≤ 3
E303Di	150/310	0,001/0,01	Ø 110	0,0006/0,005	± 0,003/± 0,02	≤ 3
E423i	420	0,001	Ø 110	0,001	± 0,004	≤ 4
E523i	520	0,001	Ø 110	0,001	± 0,004	≤ 4

⁽¹⁾ Only for external calibration model

⁽²⁾ Optional external battery pack (CNS015)

⁽³⁾ If connected to optional STAT printer (CNS022)

EH SERIES - Resolution 0,001g



Precision Balances

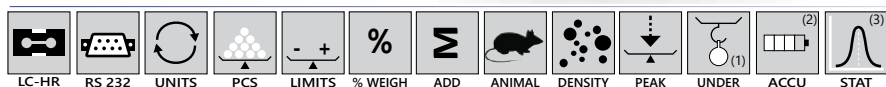
Balances Series EH are a synthesis of design, performance and convenience. Thanks to a sophisticated software and to a high-performance load cell, these balances deliver top performance at competitive prices. Double case structure, ergonomic keypad, external or internal calibration. Many embedded advanced features make them perfect for your work.

Features

- High resolution load cell weighing system
- External or automatic internal calibration
- LCD with backlight with adjustable contrast
- Large glass draught shield with 3 sliding doors for easy access to the items
- Plastic protection cover
- Under hook weighing (1)

Optional functions

Paper Grammage Function (T219)



External Calibration

Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatability (g)	Linearity (g)	Response time (sec.)
EH163	160	0,001	Ø 110	0,0006	± 0,003	≤ 3
EH203	210	0,001	Ø 110	0,0006	± 0,003	≤ 3
EH303	310	0,001	Ø 110	0,0006	± 0,003	≤ 3
EH303D	150/310	0,001/0,01	Ø 110	0,0006/0,005	± 0,003/± 0,02	≤ 3
EH423	420	0,001	Ø 110	0,001	± 0,004	≤ 4
EH523	520	0,001	Ø 110	0,001	± 0,004	≤ 4

Automatic Internal Calibration

Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatability (g)	Linearity (g)	Response time (sec.)
EH163i	160	0,001	Ø 110	0,0006	± 0,003	≤ 3
EH203i	210	0,001	Ø 110	0,0006	± 0,003	≤ 3
EH303i	310	0,001	Ø 110	0,0006	± 0,003	≤ 3
EH303Di	150/310	0,001/0,01	Ø 110	0,0006/0,005	± 0,003/± 0,02	≤ 3
EH423i	420	0,001	Ø 110	0,001	± 0,004	≤ 4
EH523i	520	0,001	Ø 110	0,001	± 0,004	≤ 4

⁽¹⁾ Only for external calibration model

⁽²⁾ Optional external battery pack (CNS015)

⁽³⁾ If connected to optional STAT printer (CNS022)

Technical data

Common features

- Span drift (+ 10...+ 30 °C): +/- 4ppm/°C
- Dimensions LxWxH (mm): 345x215x345
- Weighing chamber dimensions LxWxH (mm): 162x171x225
- Power supply 110-230Vac, 50/60Hz; output 9V 1,2A 10VA

External calibration models

Net Weight: 4,3Kg

Internal calibration models

Net Weight: 4,6Kg

Accessories

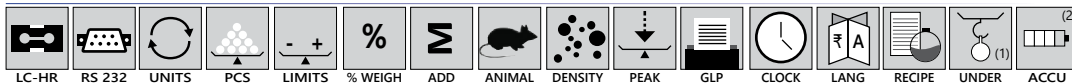
- Ioniser Ion-A15 (CNS0371)
- OPTIKA Tablet System for balances. USB version (T0329) or BLUETOOTH version (T0330).
- Bluetooth printer DPP-250-BT for OPTIKA Tablet system (CNS013)
- Serial Printer TLP-50, with date/time (CNS054)
- Serial Printer DPP-250 (CNS007)
- Serial Printer STAT, with Statistics functions (CNS022)
- Portable rechargeable battery pack (CNS015)
- Density KIT for solids and liquids (CNS002)
- Density KIT for solids (CNS001)
- Alphanumeric external keyboard (CNS005)
- Serial to USB converter (CNS1002)
- Serial cable for serial output to printer or PC (CNS743)
- Calibration certificate (CNS0333)

Precision Balances

A Top Quality series of Precision Balances that combine elegance with highly reliable measuring performance. Double case structure, ergonomic keypad. EG balances have an extensive recipe database and many embedded advanced features make them perfect for use in laboratory, research departments, formulation and quality control applications.

Features

- High resolution load cell weighing system
- External or automatic internal calibration
- 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
- Round glass windshield
- Plastic protection cover
- Under hook weighing (1)



Technical data

Common features

- Span drift (+ 10...+ 30 °C): +/- 4ppm/°C
- Dimensions LxWxH (mm): 345x215x155
- Weighing chamber dimensions diameter-Height (mm): 150x70
- Power supply 110-230Vac, 50/60Hz; output 9V 1,2A 10VA

External calibration models

Net Weight: 3,3Kg

Internal calibration models

Net Weight: 3,6Kg

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)
- Density KIT for solids (CNS001)
- Portable rechargeable battery pack (CNS015)
- Alphanumeric external keyboard (CNS005)
- Serial to USB converter (CNS1002)
- Serial cable for serial output to printer or PC (CNS743)
- Calibration certificate (CNS0333)

External Calibration

Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatability (g)	Linearity (g)	Response time (sec.)
EG163	160	0,001	Ø 110	0,0006	± 0,003	≤ 3
EG203	210	0,001	Ø 110	0,0006	± 0,003	≤ 3
EG303	310	0,001	Ø 110	0,0006	± 0,003	≤ 3
EG303D	150/310	0,001/0,01	Ø 110	0,0006/0,005	± 0,003/±0,02	≤ 3
EG423	420	0,001	Ø 110	0,001	± 0,004	≤ 4
EG523	520	0,001	Ø 110	0,001	± 0,004	≤ 4

Automatic Internal Calibration

Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatability (g)	Linearity (g)	Response time (sec.)
EG163i	160	0,001	Ø 110	0,0006	± 0,003	≤ 3
EG203i	210	0,001	Ø 110	0,0006	± 0,003	≤ 3
EG303i	310	0,001	Ø 110	0,0006	± 0,003	≤ 3
EG303Di	150/310	0,001/0,01	Ø 110	0,0006/0,005	± 0,003/±0,02	≤ 3
EG423i	420	0,001	Ø 110	0,001	± 0,004	≤ 4
EG523i	520	0,001	Ø 110	0,001	± 0,004	≤ 4

⁽¹⁾ Only for external calibration model

⁽²⁾ Optional external battery pack (CNS015)

EGH SERIES - Resolution 0,001g

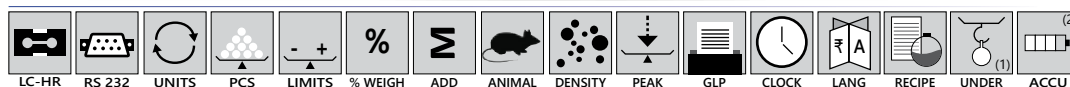


Precision Balances

A Top Quality series of Precision Balances that combine elegance with highly reliable measuring performance. Double case structure, ergonomic keypad. EGH balances have an extensive recipe database and many embedded advanced features make them perfect for use in laboratory, research departments, formulation and quality control applications.

Features

- High resolution load cell weighing system
- External or automatic internal calibration
- 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
- Round glass windshield
- Plastic protection cover
- Under hook weighing



External Calibration

Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatability (g)	Linearity (g)	Response time (sec.)
EGH163	160	0,001	Ø 110	0,0006	± 0,003	≤ 3
EGH203	210	0,001	Ø 110	0,0006	± 0,003	≤ 3
EGH303	310	0,001	Ø 110	0,0006	± 0,003	≤ 3
EGH303D	150/310	0,001/0,01	Ø 110	0,0006/0,005	± 0,003/± 0,02	≤ 3
EGH423	420	0,001	Ø 110	0,001	± 0,004	≤ 4
EGH523	520	0,001	Ø 110	0,001	± 0,004	≤ 4

Automatic Internal Calibration

Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatability (g)	Linearity (g)	Response time (sec.)
EGH163i	160	0,001	Ø 110	0,0006	± 0,003	≤ 3
EGH203i	210	0,001	Ø 110	0,0006	± 0,003	≤ 3
EGH303i	310	0,001	Ø 110	0,0006	± 0,003	≤ 3
EGH303Di	150/310	0,001/0,01	Ø 110	0,0006/0,005	± 0,003/± 0,02	≤ 3
EGH423i	420	0,001	Ø 110	0,001	± 0,004	≤ 4
EGH523i	520	0,001	Ø 110	0,001	± 0,004	≤ 4

Technical data

Common features

- Span drift (+ 10...+ 30 °C): +/- 4ppm/°C
- Dimensions LxWxH (mm): 345x215x345
- Weighing chamber dimensions LxWxH (mm): 162x171x225
- Power supply 110-230Vac, 50/60Hz; output 9V 1,2A 10VA

External calibration models

Net Weight: 4,3Kg

Internal calibration models

Net Weight: 4,6Kg

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)
- Density KIT for solids (CNS001)
- Portable rechargeable battery pack (CNS015)
- Alphanumeric external keyboard (CNS005)
- Serial to USB converter (CNS1002)
- Serial cable for serial output to printer or PC (CNS743)
- Calibration certificate (CNS0333)
- Conformity Declaration (Verification)

⁽¹⁾ Only for external calibration model

⁽²⁾ Optional external battery pack (CNS015)

F SERIES - Resolution 0,01g

Precision Balances

Balances F Series are a synthesis of design, performance and convenience. Thanks to a sophisticated software and to a high-performance load cell, these balances deliver top performance at competitive prices. Double case structure, ergonomic keypad, external or internal calibration. Many embedded advanced features make them perfect for your work.

Features

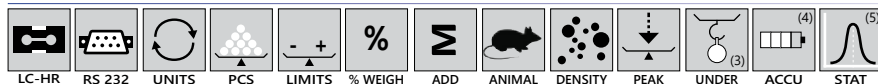
- High resolution load cell weighing system
- External or automatic internal calibration
- LCD with backlight with adjustable contrast
- Plastic protection cover
- Under hook weighing (1)

Optional functions

Paper Grammage Function (T219)



Optional Tablet system to expand balance functions



Technical data

Common features

- Span drift (+ 10...+ 30 °C): +/- 5ppm/°C
- Dimensions LxWxH (mm): 345x215x100
- Power supply 110-230Vac, 50/60Hz; output 9V 1,2A 10VA

External calibration models

Net Weight: 3,3Kg

Internal calibration models

Net Weight: 3,6Kg

External Calibration

Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatability (g)	Linearity (g)	Response time (sec.)	Verification (optional) ² M
F1002	1000	0,01	Ø 160	0,01	± 0,02	≤ 3	–
F1502	1500	0,01	Ø 160	0,01	± 0,02	≤ 3	–
F2202	2200	0,01	Ø 160	0,01	± 0,03	≤ 3	–
F3102	3100	0,01	Ø 160	0,01	± 0,03	≤ 3	–
F4202	4200	0,01	Ø 160	0,01	± 0,04	≤ 4	–
F5202	5200	0,01	Ø 160	0,01	± 0,04	≤ 4	–

Automatic Internal Calibration

Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatability (g)	Linearity (g)	Response time (sec.)	Verification (optional) ² M
F1002i	1000	0,01	Ø 160	0,01	± 0,02	≤ 3	M
F1502i	1500	0,01	Ø 160	0,01	± 0,02	≤ 3	M
F2202i	2200	0,01	Ø 160	0,01	± 0,03	≤ 3	M
F3102i	3100	0,01	Ø 160	0,01	± 0,03	≤ 3	M
F4202i	4200	0,01	Ø 160	0,01	± 0,04	≤ 4	–

Accessories

- Ioniser Ion-A15 (CNS0371)
- OPTIKA Tablet System for balances. USB version (T0329) or BLUETOOTH version (T0330).
- Bluetooth printer DPP-250-BT for OPTIKA Tablet system (CNS013)
- Serial Printer TLP-50, with date/time (CNS054)
- Serial Printer DPP-250 (CNS007)
- Serial Printer STAT, with Statistics functions (CNS022)
- Portable rechargeable battery pack (CNS015)
- Density KIT for solids and liquids (CNS002)
- Density KIT for solids (CNS001)
- Alphanumeric external keyboard (CNS005)
- Serial to USB converter (CNS1002)
- Serial cable for serial output to printer or PC (CNS743)
- Calibration certificate (CNS0333)
- Conformity Declaration (Verification)

⁽¹⁾ Not available for verified models

⁽³⁾ Only for external calibration model

⁽²⁾ To order Verification please add -M to name, e.g. F1002i-M

⁽⁴⁾ Optional external battery pack (CNS015)

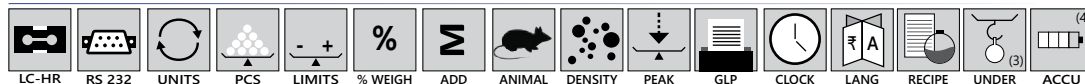
⁽⁵⁾ If connected to optional STAT printer (CNS022)

Precision Balances

A Top Quality series of Precision Balances that combine elegance with highly reliable measuring performance. Double case structure, ergonomic keypad. FG balances have an extensive recipe database and many embedded advanced features make them perfect for use in laboratory, research departments, formulation and quality control applications.

Features

- High resolution load cell weighing system
- External or automatic internal calibration
- 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
- Plastic protection cover
- Under hook weighing (1)



External Calibration

Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatability (g)	Linearity (g)	Response time (sec.)	Verification (optional) ⁽²⁾ M
FG1002	1000	0,01	Ø 160	0,01	± 0,02	≤ 3	-
FG1502	1500	0,01	Ø 160	0,01	± 0,02	≤ 3	-
FG2202	2200	0,01	Ø 160	0,01	± 0,03	≤ 3	-
FG3102	3100	0,01	Ø 160	0,01	± 0,03	≤ 3	-
FG4202	4200	0,01	Ø 160	0,01	± 0,04	≤ 4	-
FG5202	5200	0,01	Ø 160	0,01	± 0,04	≤ 4	-

Automatic Internal Calibration

Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatability (g)	Linearity (g)	Response time (sec.)	Verification (optional) ⁽²⁾ M
FG1002i	1000	0,01	Ø 160	0,01	± 0,02	≤ 3	M
FG1502i	1500	0,01	Ø 160	0,01	± 0,02	≤ 3	M
FG2202i	2200	0,01	Ø 160	0,01	± 0,03	≤ 3	M
FG3102i	3100	0,01	Ø 160	0,01	± 0,03	≤ 3	M
FG4202i	4200	0,01	Ø 160	0,01	± 0,04	≤ 4	-

Technical data

Common features

- Span drift (+ 10...+ 30 °C): +/- 5ppm/°C
- Dimensions LxWxH (mm): 345x215x100
- Power supply 110-230Vac, 50/60Hz; output 9V 1,2A 10VA

External calibration models

Net Weight: 3,3Kg

Internal calibration models

Net Weight: 3,6kg

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)
- Density KIT for solids (CNS001)
- Portable rechargeable battery pack (CNS015)
- Alphanumeric external keyboard (CNS005)
- Serial to USB converter (CNS1002)
- Serial cable for serial output to printer or PC (CNS743)
- Calibration certificate (CNS0333)
- Conformity Declaration (Verification)

⁽¹⁾ Not available for verified models

⁽²⁾ To order Verification please add -M to name, e.g. F1002i-M

⁽³⁾ Only for external calibration model

⁽⁴⁾ Optional external battery pack (CNS015)

G SERIES - Resolution 0,1g

Precision Balances

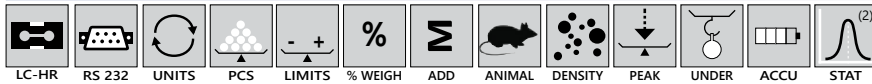
Balances G Series are a synthesis of design, performance and convenience. Thanks to a sophisticated load software and to a high-performance load cell, these balances deliver top performance at competitive prices. Double case structure, ergonomic keypad, maximum capacity 20Kg. Many embedded advanced features make them perfect for your work.

Features

- High resolution load cell weighing system
- External calibration
- LCD with backlight with adjustable contrast
- Plastic protection cover
- Under hook weighing



Optional Tablet system to expand balance functions



Technical data

Common features

- Span drift (+ 10...+ 30 °C): +/- 6ppm/°C
- Dimensions LxWxH (mm): 345x215x100
- Power supply 110-230Vac, 50/60Hz; output 9V 1,2A 10VA
- Net Weight: 3,5Kg

External Calibration

Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatability (g)	Linearity (g)	Response time (sec.)
G4501	4500	0,1	175x195	0,05	± 0,1	≤ 2
G5201	5200	0,1	175x195	0,05	± 0,1	≤ 2
G6501	6500	0,1	175x195	0,05	± 0,1	≤ 2
G8001	8000	0,1	175x195	0,05	± 0,2	≤ 2
G10001	10000	0,1	175x195	0,05	± 0,2	≤ 2
G12001	12000	0,1	175x195	0,05	± 0,2	≤ 3
G16001	16000	0,1	175x195	0,08	± 0,3	≤ 3
G20001	20000	0,1	175x195	0,1	± 0,4	≤ 4

Accessories

- OPTIKA Tablet System for balances. USB version (T0329) or BLUETOOTH version (T0330).
- Bluetooth printer DPP-250-BT for OPTIKA Tablet system (CNS013)
- Serial Printer TLP-50, with date/time (CNS054)
- Serial Printer DPP-250 (CNS007)
- Serial Printer STAT, with Statistics functions (CNS022)
- Portable rechargeable battery pack (CNS015)
- Alphanumeric external keyboard (CNS005)
- Serial to USB converter (CNS1002)
- Serial cable for serial output to printer or PC (CNS743)
- Calibration certificate (CNS0333)

⁽¹⁾ Optional external battery pack (CNS015)

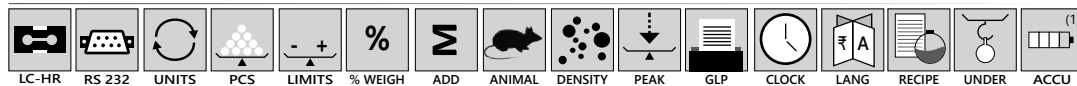
⁽²⁾ If connected to optional STAT printer (CNS022)

Precision Balances

A Top Quality series of Precision Balances that combine elegance with highly reliable measuring performance. Double case structure, ergonomic keypad. GG balances have an extensive recipe database and many embedded advanced features make them perfect for use in laboratory, industry and quality control applications.

Features

- High resolution load cell weighing system
- External calibration
- 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
- Plastic protection cover
- Under hook weighing



External Calibration

Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatability (g)	Linearity (g)	Response time (sec.)
GG4501	4500	0,1	175x195	0,05	± 0,1	≤ 2
GG5201	5200	0,1	175x195	0,05	± 0,1	≤ 2
GG6501	6500	0,1	175x195	0,05	± 0,1	≤ 2
GG8001	8000	0,1	175x195	0,05	± 0,2	≤ 2
GG10001	10000	0,1	175x195	0,05	± 0,2	≤ 2
GG12001	12000	0,1	175x195	0,05	± 0,2	≤ 3
GG16001	16000	0,1	175x195	0,08	± 0,3	≤ 3
GG20001	20000	0,1	175x195	0,1	± 0,4	≤ 4

Technical data

Common features

- Span drift (+ 10...+ 30 °C): +/- 6ppm/°C
- Dimensions LxWxH (mm): 345x215x100
- Power supply 110-230Vac, 50/60Hz; output 9V 1,2A 10VA
- Net Weight: 3,5Kg

Accessories

- Serial Printer TLP-50, with date/time (CNS054)
- Serial Printer DPP-250 (CNS007)
- Portable rechargeable battery pack (CNS015)
- Alphanumeric external keyboard (CNS005)
- Serial to USB converter (CNS1002)
- Serial cable for serial output to printer or PC (CNS743)
- Calibration certificate (CNS0333)

⁽¹⁾ Optional external battery pack (CNS015)

H SERIES - Resolution 0,001g



Precision Balances

A fusion of design and quality, balances H Series enclose all the experience of higher class models in a small footprint portable balance. Thanks to the sophisticated software and to a high-performance load cell, these balances reach maximum capacity of 420 grams. Solid structure, ergonomic keypad and the many embedded software functions make this balance a complete product at a very competitive price.

Features

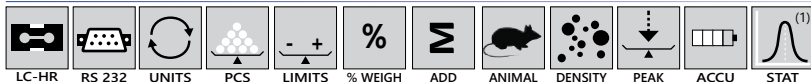
- High resolution load cell weighing system
- Small footprint, portable
- External calibration
- LCD with backlight with adjustable contrast
- Round glass windshield
- Plastic protection cover
- Operating with internal accumulator (included)

Optional functions

Paper Grammage Function (T219)



Optional Tablet system to expand balance functions



Technical data

Common features

- Span drift (+ 10...+ 30 °C): +/- 5ppm/°C
- Dimensions LxWxH (mm): 190x255x130
- Weighing chamber dimensions diameter-Height (mm): 133x70
- Power supply 110-230Vac, 50/60Hz; output 9V 1,2A 10VA
- Net Weight: 1,6Kg

External Calibration

Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatability (g)	Linearity (g)	Response time (sec.)
H123	120	0,001	Ø 80	0.0008	± 0,003	≤ 3
H203	210	0,001	Ø 80	0,001	± 0,003	≤ 3
H303	310	0,001	Ø 80	0,001	± 0,003	≤ 3
H303D	150/310	0,001/0,01	Ø 80	0,001/0,008	± 0,003/± 0,02	≤ 3
H423	420	0,001	Ø 80	0,001	± 0,004	≤ 3
H523	520	0,001	Ø 80	0,001	± 0,004	≤ 3

Accessories

- Ioniser Ion-A15 (CNS0371)
- OPTIKA Tablet System for balances. USB version (T0329) or BLUETOOTH version (T0330)
- Bluetooth printer DPP-250-BT for OPTIKA Tablet system (CNS013)
- Serial Printer TLP-50, with date/time (CNS054)
- Serial Printer DPP-250 (CNS007)
- Serial Printer STAT, with Statistics functions (CNS022)
- Density KIT for solids and liquids (CNS002)
- Density KIT for solids (CNS001)
- Alphanumeric external keyboard (CNS005)
- Serial to USB converter (CNS1002)
- Serial cable for serial output to printer or PC (CNS743)
- Calibration certificate (CNS0333)

¹⁾ If connected to optional STAT printer (CNS022)

Precision Balances

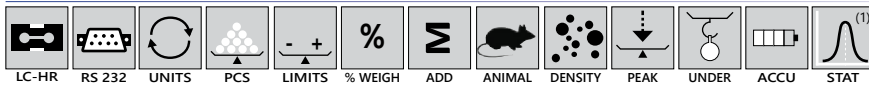
A fusion of design and quality, balances I Series enclose all the experience of higher class models in a small footprint portable balance. Thanks to the sophisticated software and to a high-performance load cell, these balances reach maximum capacity of 4200 grams. Solid structure, ergonomic keypad and the many embedded software functions make this balance a complete product at a very competitive price.

Features

- High resolution load cell weighing system
- Small footprint, portable
- External calibration
- LCD with backlight with adjustable contrast
- Under hook weighing
- Plastic protection cover
- Operating with internal accumulator (included)



Optional Tablet system to expand balance functions



External Calibration

Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatability (g)	Linearity (g)	Response time (sec.)
I622	620	0,01	Ø 130	0,01	± 0,02	≤ 2
I1002	1000	0,01	Ø 130	0,01	± 0,02	≤ 2
I1202	1200	0,01	Ø 130	0,01	± 0,02	≤ 2
I1502	1500	0,01	Ø 130	0,01	± 0,02	≤ 2
I2202	2200	0,01	Ø 130	0,01	± 0,03	≤ 3
I3102	3100	0,01	Ø 130	0,01	± 0,03	≤ 3
I4202	4200	0,01	Ø 130	0,01	± 0,04	≤ 3

Technical data

Common features

- Span drift (+ 10...+ 30 °C): +/- 6ppm/°C
- Dimensions LxWxH (mm): 190x255x80
- Power supply 110-230Vac, 50/60Hz; output 9V 1,2A 10VA
- Net Weight: 1,4Kg

Accessories

- Ioniser Ion-A15 (CNS0371)
- OPTIKA Tablet System for balances. USB version (T0329) or BLUETOOTH version (T0330)
- Bluetooth printer DPP-250-BT for OPTIKA Tablet system (CNS013)
- Serial Printer TLP-50, with date/time (CNS054)
- Serial Printer DPP-250 (CNS007)
- Serial Printer STAT, with Statistics functions (CNS022)
- Density KIT for solids and liquids (CNS002)
- Density KIT for solids (CNS001)
- Alphanumeric external keyboard (CNS005)
- Serial to USB converter (CNS1002)
- Serial cable for serial output to printer or PC (CNS743)
- Calibration certificate (CNS0333)

^① If connected to optional STAT printer (CNS022)

L SERIES - Resolution 0,1g

Precision Balances

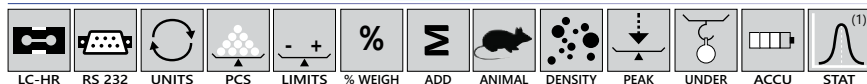
A fusion of design and quality, balances L Series enclose all the experience of higher class models in a small footprint portable balance. A sophisticated software and a high-performance load cell allow always reliable weighings and fast response. Solid structure, ergonomic keypad and the many embedded software functions make this balance a complete product at a very competitive price.

Features

- High resolution load cell weighing system
- Small footprint, portable
- External calibration
- LCD with backlight with adjustable contrast
- Operating with internal accumulator (included)
- Under hook weighing
- Plastic protection cover



Optional Tablet system to expand balance functions



Technical data

Common features

- Span drift (+ 10...+ 30 °C): +/- 6ppm/°C
- Dimensions LxWxH (mm): 190x255x80
- Power supply 110-230Vac, 50/60Hz; output 9V 1,2A 10VA
- Net Weight: 1,4Kg

External Calibration

Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatability (g)	Linearity (g)	Response time (sec.)
L3201	3200	0,1	150x140	0,05	± 0,2	≤ 2
L5201	5200	0,1	150x140	0,05	± 0,2	≤ 2
L6501	6500	0,1	150x140	0,05	± 0,2	≤ 2

Accessories

- OPTIKA Tablet System for balances. USB version (T0329) or BLUETOOTH version (T0330)
- Bluetooth printer DPP-250-BT for OPTIKA Tablet system (CNS013)
- Serial Printer TLP-50, with date/time (CNS054)
- Serial Printer DPP-250 (CNS007)
- Serial Printer STAT, with Statistics functions (CNS022)
- Alphanumeric external keyboard (CNS005)
- Serial to USB converter (CNS1002)
- Serial cable for serial output to printer or PC (CNS743)
- Calibration certificate (CNS0333)

^① If connected to optional STAT printer (CNS022)

M SERIES - Resolution 0,01g-0,1g



Precision Balances

The entry level of balances keeping all the quality of higher level balances. The essential to have always precise and reliable results with the minimum investment. The refined design, the small dimensions, the backlit LCD display, the possibility of operating also with AA type batteries and the many on-board software functions already included make this balance a product with the best quality over price.

Features

- High resolution load cell weighing system
- Small footprint, portable
- External calibration
- LCD with backlight
- Operates also with AA batteries (not included)
- Plastic protection cover



External Calibration

Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatability (g)	Linearity (g)	Response time (sec.)
M202	200	0,01	Ø 110	0,01	± 0,02	≤ 2
M422	420	0,01	Ø 110	0,01	± 0,02	≤ 2
M1001	1000	0,1	150x140	0,1	± 0,2	≤ 2
M1501	1500	0,1	150x140	0,1	± 0,2	≤ 2
M2201	2200	0,1	150x140	0,1	± 0,3	≤ 2

Technical data

Common features

- Span drift (+ 10...+ 30 °C): +/- 6ppm/°C
- Dimensions LxWxH (mm): 190x255x80
- Power supply 110-230Vac, 50/60Hz; output 9V 1,2A 10VA
- Net Weight: 1 Kg

Accessories

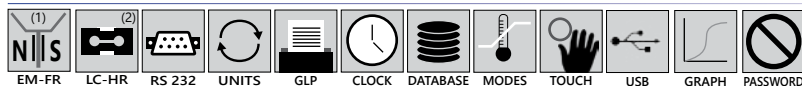
- Rechargeable battery, type AA (CNS803) (balances ES require five)
- Calibration certificate (CNS0333)

⁽¹⁾ Optional external battery pack (CNS015)

TG SERIES - Resolution 0,0001g-0,001g-0,01g

Moisture Balances

TG - Series balances are moisture balances with large 5" color touchscreen display that gives a user-friendly access to all the balance advanced applications and internal databases. The user has easy and intuitive access with fast programming of drying cycles, thanks to icon-driven menus. This means more efficiency, productivity and interactivity. A double case structure protects the heart of the balance: an aluminum inner case and a composite plastic external case. The many on-board functions already included, the possibility of calibrating the internal thermometer using the optional KIT, up to 6 operating languages, the large 5" inch display and the RS232 serial output close the circle of a complete product, reliable and truly convenient. The models in the family allow to reach up to 0,001% drying resolution.



Technical data

Common features

- Span drift (+ 10...+ 30 °C): +/- 3ppm/°C [TGA64M]; +/- 4ppm/°C [other models]
- Dimensions LxWxH (mm): 345x215x235
- Maximum dimension of container on the pan: 100mm (Ø) x 25mm (height)
- Power supply: AC 220-240 V (at request AC 110 Volt) 50/60Hz; plugs EU,UK
- Power consumption: rating 430 VA; Heat source lamp: 400Watt
- Net Weight: 6,1Kg (A64M and 163M)
- Net Weight: 4,7Kg (163L and 62L)

External Calibration

Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatability (g)	Linearity (g)	Precision (2g)	Response time (sec.)
TGA64M	60	0,0001	100mm Samples Pan	0,0001	± 0,0003	0,18%	≤ 3
TG163M	160	0,001	100mm Samples Pan	0,001	± 0,003	0,18%	≤ 3
TG163L	160	0,001	100mm Samples Pan	0,001	± 0,003	0,20%	≤ 4
TG62L	60	0,01	100mm Samples Pan	0,01	± 0,03	0,50%	≤ 3

Accessories

- Thermometer calibration KIT (CNS02)
- Serial Printer TLP-50, with date/time (CNS054)
- TEST pans (Ø 100mm x 0,5mm) (CNS753)
- Ioniser Ion-A15 (CNS0371)
- Calibration certificate (CNS0333)
- Usb pendrive 8Gbyte (CNS020)
- Touchscreen Stylus pen (CNS021)

⁽¹⁾ Only TGA64M, TG163M

⁽²⁾ Only TG163L, TG62L



Export/import results and database to USB

Moisture Balances

Features

- Features
- Electromagnetic force restoration weighing system (A64M and 163M)
- High resolution load cell weighing system (163L and 62L)
- Halogen-infrared lamp
- External calibration
- Large 5" color touchscreen 800x480 display
- RS232 serial interface
- Drying resolution 0,001% (-A64M), 0,01% (-163M and -163L), 0,1% (-62L)
- Drying modes: Time mode (1-99 min.), Autostop % or absolute autostop in grams, Manual
- Live Graph of humidity content changing
- Temperature range: 35-160°C, step of 1°C
- Temperature Profiles: Standard, fast, mild, steps
- Results in: Humidity%, Dry residue%, ATRO%, Weight
- Test results complete of full drying cycle Graph
- Up to 10 hot keys for fast recall of drying cycles from internal database
- Default database stored already with more than 30 products
- Saving results with test reports and drying graphic up to 3000 records, for each user.
- Customizable settings for up to 10 users with the possibility of password protection.
- Serial output for connection to printer, USB port for export or import database, test results, etc.



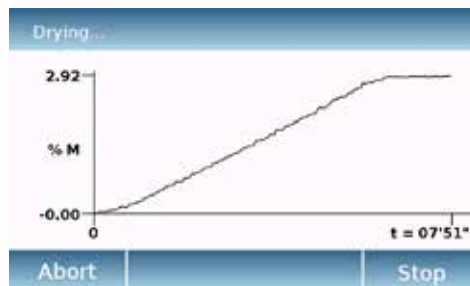
Main functions page for easy working



Drying cycle page with graph, with parameters



Internal database of products/processes



Real time Live Graph View, full screen

T SERIES - Resolution 0,0001g-0,001g-0,01g



Moisture Balances

T - Series are rugged instruments for moisture determination of raw materials and finished samples in the food, cosmetics, ceramics, agriculture and construction industry. Backlit LCD display, drying resolution 0,001%, 0,01% and 0,1%. Possibility of calibrating the internal thermometer (w/optional KIT).

Features

- Electromagnetic force restoration weighing system (A64M and 163M)
- High resolution load cell weighing system (163L and 62L)
- Halogen-infrared lamp
- External calibration
- LCD with backlight with adjustable contrast
- Time (1-99 min) and Autostop operating modes
- 5 drying programs can be stored
- Temperature range: 35-160°C/1°C
- Moisture, dry residue in percentage and ATRO indications
- Drying resolution 0,001% - 0,01% - 0,1%
- Plastic protection cover



Technical data

Common features

- Span drift (+ 10...+ 30 °C): +/- 3ppm/°C [TA64M]; +/- 4ppm/°C [other models]
- Dimensions LxWxH (mm): 345x215x235
- Maximum dimension of container on the pan: 100mm (Ø) x 25mm (height)
- Power supply 110-230Vac, 50/60Hz; output 24V 500mA 13VA [TA64M]; output 9V 1,2A 10VA [other models]
- Heater: 230V AC 50/60Hz, 400Watt
- Net Weight: 6,1Kg (A64M and 163M)
- Net Weight: 4,7Kg (163L and 62L)

External Calibration

Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatability (g)	Linearity (g)	Precision (2g)	Response time (sec.)
TA64M	60	0,0001	100mm Samples Pan	0,0001	± 0,0003	0,18%	≤ 3
T163M	160	0,001	100mm Samples Pan	0,001	± 0,003	0,18%	≤ 3
T163L	160	0,001	100mm Samples Pan	0,001	± 0,003	0,20%	≤ 4
T62L	60	0,01	100mm Samples Pan	0,01	± 0,03	0,50%	≤ 3

Accessories

- Ioniser Ion-A15 (CNS0371)
- Thermometer calibration KIT (CNS02)
- OPTIKA Tablet System for balances. USB version (T0361) or BLUETOOTH version (T0362).
- Bluetooth printer DPP-250-BT for OPTIKA Tablet system (CNS013)
- Serial Printer TLP-50, with date/time (CNS054)
- Serial Printer DPP-250 (CNS007)
- Serial to USB converter (CNS1002)
- Serial cable for output to printer/PC (CNS743)
- TEST pans (Ø 100mm x 0,5mm) (CNS753)
- Calibration certificate (CNS0333)

⁽¹⁾ Only TA64M, T163M

⁽²⁾ Only T163L, T62L

N SERIES - Resolution 0,1g-0,2g-0,5g-1g

High Capacity Balances

Robustness, reliability and a high level of performance are enclosed inside N Series balances, that can reach a maximum capacity of 32Kg with 0,1g resolution. The many embedded functions make these balances an ideal instrument of work for many applications inside and outside the laboratory.

Features

- High resolution load cell weighing system
- External calibration
- Metal case
- LCD with backlight with adjustable contrast
- Plastic protection cover
- Under hook weighing



Optional Tablet system to expand balance functions



External Calibration

Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatability (g)	Linearity (g)	Response time (sec.)
N8001	8000	0,1	210x320	0,05	± 0,2	≤ 3
N10001	10000	0,1	210x320	0,05	± 0,3	≤ 3
N12001	12000	0,1	210x320	0,05	± 0,3	≤ 3
N16001	16000	0,1	210x320	0,05	± 0,3	≤ 3
N20001	20000	0,1	210x320	0,1	± 0,3	≤ 4
N32001	32000	0,1	210x320	0,1	± 0,4	≤ 4
N32001.2	32000	0,2	210x320	0,1	± 0,4	≤ 3
N32001.5	32000	0,5	210x320	0,5	± 0,5	≤ 3
N15000	15000	1	210x320	0,1	± 1	≤ 3
N20000	20000	1	210x320	0,1	± 1	≤ 3
N32000	32000	1	210x320	0,1	± 1	≤ 3
N16001D	4500/16000	0,1/1	210x320	0,05/0,5	±0,2/± 1	≤ 3
N20001D	4500/20000	0,1/1	210x320	0,05/0,5	±0,2/± 1	≤ 3
N32001D	4500/32000	0,1/1	210x320	0,05/0,5	±0,2/± 1	≤ 3

Technical data

Common features

- Span drift (+ 10...+ 30 °C): +/- 6ppm/°C
- Dimensions LxWxH (mm): 330x325x105
- Power supply 110-230Vac, 50/60Hz; output 9V 1,2A 10VA
- Net Weight: 6,2Kg

Accessories

- Ioniser Ion-A15 (CNS0371)
- OPTIKA Tablet System for balances. USB version (T0329) or BLUETOOTH version (T0330).
- Bluetooth printer DPP-250-BT for OPTIKA Tablet system (CNS013)
- Serial Printer TLP-50, with date/time (CNS054)
- Serial Printer DPP-250 (CNS007)
- Serial Printer STAT, with Statistics functions (CNS022)
- Portable rechargeable battery pack (CNS015)
- Alphanumeric external keyboard (CNS005)
- Serial to USB converter (CNS1002)
- Serial cable for serial output to printer or PC (CNS743)
- Calibration certificate (CNS0333)

⁽¹⁾ Optional external battery pack (CNS015)

⁽²⁾ If connected to optional STAT printer (CNS022)

OPTIKA Tablet System for Precision

OPTIKA Tablet system is an accessory that can be connected to balances, achieving in this way a consistent upgrade.

Expand

The innovative OPTIKA Tablet System expands the capability of your OPTIKA precision balance by increasing the functionality and applications available using the now familiar Tablet technology and App philosophy.

The Tablet system expands the possibility of the balance, introducing weighing functions that are usually handled connecting the balance to a computer or by balances of higher class.

Connect

The tablet has a Bluetooth connection, just switch on the balance and the Tablet automatically recognizes it: no need to configure. That also means that the same tablet can be used with different balances in your lab.

The tablet has also a Wi-fi connection so it can connect to your local area network.

System can be easily updated and Tablet applications can be upgraded via the internet, without the sometimes necessary purchase of a new balance.

Save

Save space: no need to connect the balance to a desktop computer. Centralize your weighing actions in one place.

Save time: easy to use and intuitive touch screen technology - you see what you need and you touch to choose. The tablet can retrieve data and information relevant to measurements/ongoing studies via internet, no need to move from another working location. A context sensitive help shows you how to use the function you're using.

It has never been so intuitive and quick to work with a precision balance!

App

The system takes advantages from the APP philosophy: your balance becomes a weighing system depending on the Application you choose.

You can buy new Applications as they are released without need of buying a new balance or system. The balance can always work independently: disconnect the Tablet system and the balance returns to work as a stand-alone equipment as before.

Update

The 7-inch Tablet provides an economical, powerful and space saving alternative to use of more elaborate balances or external computer control. The Tablet can update your balance even if you buy it separately in a different moment, so your investment is preserved.

As new Applications are developed during time you can choose if upgrading the system in fact expanding weighing possibilities or... let us know your application needs you would like to be developed!



The OPTIKA Tablet System consists of:

7" tablet	Multi-touch, 1280x800 screen resolution, Android OS.
Tab-Box	Connecting interface complete of cables to connect the Balance to the Tablet.
APP	Application software for all weighing functions management, already installed on the Tablet.
Support	Inclinable support for Tablet.

Compatible Balances (need firmware R6.xx):

C family	LCD display, from 0,0001g to 0,01g resolution
CH family	LCD display, 0,001g resolution
E family	LCD display, from 0,001g to 0,1g resolution
EH family	LCD display, 0,001g resolution
N family	LCD display, from 0,1g to 1g resolution
H-I-L family	LCD display, from 0,001g to 0,1g resolution

Code Description

T0329	OPTIKA Tablet System for balances. Includes Tablet, Tab-box, support, Application. USB version.
T0330	OPTIKA Tablet System for balances. Includes Tablet, Tab-box, support, Application. BLUETOOTH version.

Accessories:

CNS013	Bluetooth wireless printer (works also with batteries). Model DPP-250-BT, code CNS013.
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OPTIKA Tablet System for Precision



Functions included in the APP:

Simple Weighing	Basic weighing operations with multiple measuring units, three custom defined measuring units, calibration, preTare and zero/Tare commands.
Piece Counting	Piece counting function with 10,25 or customizable quantity of samples, mean sample weight or from database entry.
Check Weight	Set lower and upper limit value of weight, values can be stored.
Weight %	Percentage measurement among weights.
Density	Density measurements, also from database stored values.
Statistics	Maximum, Minimum, Average, Sum, Standard deviation
Gross Net Tare	Display simultaneously gross weight, net weight, net tare.
Recipe	Dosing multiple components together, with automatic recalculations of a component in case of dosing error, recipes can be stored and recalled.
Max Load	Holds the Peak value of weighing.
Animal Weighing	Used when weighing small animals in movement.
Textile	Determines the title of a thread through weight of a skein of known length, measuring units: Tex, Td, Nm, Nc.
GLP	Allows to store identification data of balance, project and user.

Additional APP features:

Profiles	It is possible to create up to 10 different profile. Each profile has his own preferences and database management.
Database Management	Each profile can store 300 database entries for each of the above listed functions.
Backup/Restore	Database can be backedup and restored in case of necessity.
Printers	Printers management, configure of the header to be printed.
Bluetooth	The Tablet bluetooth can send data to the DPP-250-BT (code CNS013) printer so that weighing data can be printed easily without connection cables.

OPTIKA Tablet System for Moisture Balances

Moisture balances can be connected to OPTIKA tablet system to become the first moisture analyzer connected to a tablet via Bluetooth/USB.

The result is an intuitive and interactive instrument which increases productivity using the now familiar tablet technology and app philosophy. OPTIKA Tablet system expands the possibility of OPTIKA moisture analyzers, so that your work becomes more efficient.

The special developed APPlication allows you to:

- Select temperature profile (standard, ramp, fast, steps)
- Store data and drying methods in database
- See the real-time graph of ongoing drying process of the sample
- Send information through local area network or internet
- Also:
- Multi-language (EN-DE-FR-IT-ES-PT)
- Customizable settings
- Internet upgradable
- Intuitive context-sensitive help

Thanks to the large display all informations are displayed at the same time, that is preferable for moisture determination analysis.



Customer Benefits

- The large display shows all informations at same time, that is preferable for moisture determination analysis
- See the REAL-TIME graph of ongoing sample drying process
- Save time: easy to use and intuitive touch screen technology
- Save space: Centralize your weighing actions in one place
- Immediately share the results of the drying process through the Tablet wifi connection

Markets/Applications

- **Food industry:** coffee, sugar, cocoa, beverages, ...
- **Cosmetics industry:** cosmetic powder moisture analysis for process optimization and quality control
- **Materials testing:** analysis of pastes, mass, woods, adhesive materials, dusts... for the production and control of materials
- **Seed production:** moisture control in grains, flour, edible seeds and nuts is critical to product quality
- **Plastic Quality control:** PET plastics pellet, plastic resin, production control

Accessories

Bluetooth printer DPP-250-BT (CNS013)

The OPTIKA Tablet System consists of:

7" tablet	Multi-touch, 1280x800 screen resolution, Android OS.
Tab-Box	Connecting interface complete of cables to connect the Balance to the Tablet.
APP	Application software for all weighing functions management, already installed on the Tablet.
Support	Inclinable support for Tablet.

Compatible Balances:

T Series	LCD display, from 0,0001g to 0,01g resolution
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Code	Description
T0361	OPTIKA Tablet System for Moisture balances. Includes Tablet, Tab-box, support, Application. USB version.
T0362	OPTIKA Tablet System for Moisture balances. Includes Tablet, Tab-box, support, Application. BLUETOOTH version.

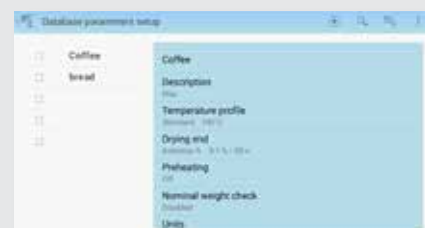
OPTIKA Tablet System for Moisture Balances



Optional wireless printer.



Real-time graph of ongoing drying process



Database of drying methods



Heater parameters set-up



See and print results of drying process



Drying modes



Units

Functions included in the APP:

Simple Weighing	Basic weighing operations with selectable measuring units (g,mg), preTare and zero/Tare commands.
Moisture determination	Set and start drying process of your sample. See real-time graph of drying process
Drying modes	Manual, Time, Autostop %, Autostop absolute
Temperature profiles	Standard, ramp, fast, steps
Units	Moisture (M%), Solid (R%), Atro (A%), Weight
Database of results	Store drying process results and graph in internal database (300 entries for each profile). Results can be also later recalled and viewed in different units
Database of methods	Store drying methods in internal database (300 entries for each profile). Five hotkeys can be set for fastest recall of most used drying methods

Other features included in the APP:

Heater parameters	Set Standby temperature, Start mode, Start delay, Adjustment points
Peripherals	Print header configuration, print time/date, Printer selection
Profiles	It is possible to create up to 10 different profiles. Each profile has its own preferences and database management.
Backup/Restore	Database can be backedup and restored in case of necessity
Bluetooth	The Tablet Bluetooth can send data to the DPP-250-BT (code CNS013) printer so that drying process results and graph can be quickly printed
GLP	Allows to store the identification data of balance, project and user

ACCESSORIES



Serial printer DPP-250 and DPP-250-BT

Code:
CNS007
(cable version)
CNS013
(BLUETOOTH version)

Line thermal dot printing
Printing width: 48mm (384 dots/line)
Printing speed: up to 50mm/sec
Interface: Serial RS-232C or Bluetooth
Rechargeable battery (Li-Ion 7.4V, 1150mAh)
Battery charge time: 2 hours. Output: 12V 2.5A
AC adapter included
Connection cable included for DPP-250
Weight: 280g
Dimensions: 66x105x57h mm



Serial printer TLP-50 Code: CNS054

Line thermal dot printing
printing width: 48mm (384 dots/line)
printing speed: up to 50mm/sec
Interface: Serial RS-232C
date/time
connection cable included
AC adapter: input 100-240V 50/60Hz output 12V DC
Weight (printer+AC adapter): 950g
Dimensions: 106x184x110h mm



Serial Printer with Statistics function, model STAT

Code: CNS022

Thermal printer, bidirectional. Interface: Serial RS-232C
Printing speed: 0,75 lines/sec; 40/ 80 characters/line
Paper roll: width 112mm, length 20m
GLP record keeping of balance calibration with date/time print.
Statistics functions:

- Count and total of all measurements, Minimum,
- Maximum values, Range (Max-Min).
- Average value, Standard Deviation.

Available units: mg, g, Kg, pcs.
Languages: English, French, German
Dimensions WxDxH: 165x140x50 mm
Power supply: 230Vac/50Hz 0.12 A / output 9Vdc 1.3 A
Connection cable included



Density KIT for solids and liquids

Codes:
CNS001, CNS002, CNS003,
CNS004

Glass graduated Cylinder height 150mm Ø 50mm 250ml
Glass graduated Beaker height 95mm Ø 65 mm 250ml
Analogic termometer
Glass Plummet
Basket for floating and not floating samples
Suspension arm for basket or plummet
Support for plummet/basket
Support base for beaker

ACCESSORIES



**Ioniser model
ION-A15,
for all balances**

Code: CNS0371

Static charge accumulates in many kind of samples that are being weighed
Ioniser A15 neutralizes electrostatically charged samples, like plastic samples (or
containers) or films.

Distance from sample to ion source apporx - 50 to 400mm

Indoor use, small footprint

discharge time 9s/5cm, 13s/10cm, 100s/40cm (with fan turned on)

Dimensions (cm) 11 x 10,5 x 4,5

Weight: 310g



**Portable rechargeable
battery pack,
for balances L, LW, LG, LGW
and KL**

Code: CNS015

Input: 9/12V Output: 5V 2100mA x 2 USB and 1xDC 9V/12V 2000mA

Long lasting Battery Li-Ion

Battery charge time: 5hours

Battery duration: 40hours about (depends on use and on device
connected)

4 LEDs to indicate charge status

Capacity 10000mAh/37Wh

Dimensions: 120x80x23mm

Weight: 304g



**Alphanumeric external
keyboard model
KEYMODULE**

Code: CNS005

RS232 connection

keyboard for inserting alphanumeric values

TARE function button

Button for inserting manual pre-tare value

Dimensions: 115x210x35h mm

Weight: 250g

CERTIFIED WEIGHTS

CODE	WEIGHT	MATERIAL	CLASS	CASE
PSM1	1mg-500mg	Stainless steel	M1	Plastic
PS01M1	1g	Stainless steel	M1	Plastic
PS02M1	2g	Stainless steel	M1	Plastic
PS05M1	5g	Stainless steel	M1	Plastic
PS010M1	10g	Stainless steel	M1	Plastic
PS020M1	20g	Stainless steel	M1	Plastic
PS050M1	50g	Stainless steel	M1	Plastic
PS100M1	100g	Stainless steel	M1	Plastic
PS200M1	200g	Stainless steel	M1	Plastic
PS500M1	500g	Stainless steel	M1	Plastic
PS1M1	1kg	Stainless steel	M1	Plastic
PS2M1	2kg	Stainless steel	M1	Plastic
PS5M1	5kg	Stainless steel	M1	Plastic

PSG5M1	5kg	Painted iron	M1	Wood
PSG10M1	10kg	Painted iron	M1	Wood
PSG20M1	20kg	Painted iron	M1	Wood
PSGN5M1	5kg	Painted iron	M1	Wood
PSGN10M1	10kg	Painted iron	M1	Wood
PSGN20M1	20kg	Painted iron	M1	Wood

PSF1	1mg-500mg	Stainless steel	F1	Plastic
PS01F1	1g	Stainless steel	F1	Plastic
PS02F1	2g	Stainless steel	F1	Plastic
PS05F1	5g	Stainless steel	F1	Plastic
PS010F1	10g	Stainless steel	F1	Plastic
PS020F1	20g	Stainless steel	F1	Plastic
PS050F1	50g	Stainless steel	F1	Plastic
PS100F1	100g	Stainless steel	F1	Plastic
PS200F1	200g	Stainless steel	F1	Plastic
PS500F1	500g	Stainless steel	F1	Plastic
PS1F1	1kg	Stainless steel	F1	Plastic
PS2F1	2kg	Stainless steel	F1	Plastic
PS5F1	5kg	Stainless steel	F1	Plastic
PS10F1	10kg	Stainless steel	F1	Plastic
PS20F1	20kg	Stainless steel	F1	Aluminum



CERTIFIED WEIGHTS

CODE	WEIGHT	MATERIAL	CLASS	CASE
PSF2	1mg-500mg	Stainless steel	F2	Plastic
PS01F2	1g	Stainless steel	F2	Plastic
PS02F2	2g	Stainless steel	F2	Plastic
PS05F2	5g	Stainless steel	F2	Plastic
PS010F2	10g	Stainless steel	F2	Plastic
PS020F2	20g	Stainless steel	F2	Plastic
PS050F2	50g	Stainless steel	F2	Plastic
PS100F2	100g	Stainless steel	F2	Plastic
PS200F2	200g	Stainless steel	F2	Plastic
PS500F2	500g	Stainless steel	F2	Plastic
PS1F2	1kg	Stainless steel	F2	Plastic
PS2F2	2kg	Stainless steel	F2	Plastic
PS5F2	5kg	Stainless steel	F2	Plastic
PS10F2	10kg	Stainless steel	F2	Plastic
PS20F2	20kg	Stainless steel	F2	Aluminum

PSE2	1mg-500mg	Stainless steel	E2	Plastic
PS01E2	1g	Stainless steel	E2	Plastic
PS02E2	2g	Stainless steel	E2	Plastic
PS05E2	5g	Stainless steel	E2	Plastic
PS010E2	10g	Stainless steel	E2	Plastic
PS020E2	20g	Stainless steel	E2	Plastic
PS050E2	50g	Stainless steel	E2	Plastic
PS100E2	100g	Stainless steel	E2	Plastic
PS200E2	200g	Stainless steel	E2	Plastic
PS500E2	500g	Stainless steel	E2	Plastic
PS1E2	1kg	Stainless steel	E2	Plastic
PS2E2	2kg	Stainless steel	E2	Plastic
PS5E2	5kg	Stainless steel	E2	Plastic
PS10E2	10kg	Stainless steel	E2	Plastic

CERACC		Accredia certificate		Price on request
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