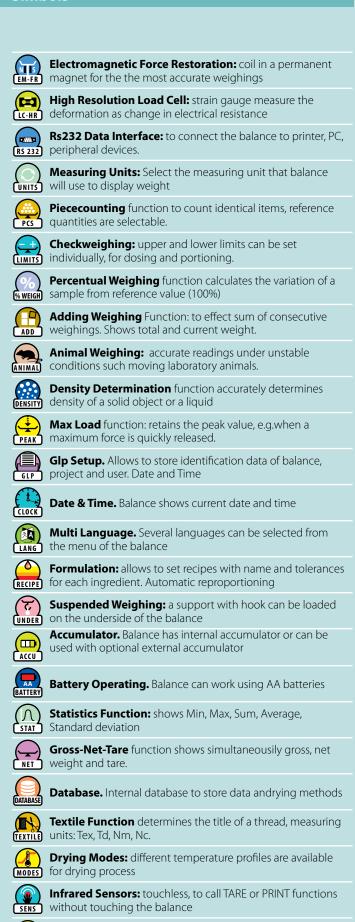


QUALITY THAT WEIGHS

Simbols



Touchscreen Display technology, user friendly, easy to use

Bluetooth interface: it is possible to connect bluetooth

USB interface: it is possible to connect a usb pendrive

and intuitive.

devices

TOUCH

BLUETOOTH

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

ery / ery ck							_	_	_	_				_	_		_	_	_		_	_
Battery / Battery Pack															_							
Internal Accumu- Iator																•						
Hook			•	•	•	•	4	4	•	•		•	•	4	•	•			•			•
Multi- Language		-			•	•		•		•												
Glp					•	•							•						•			
Units	•		•	•	•	-	•		•		•	•	•	•			•		•		•	•
Rs2332	•		•	-	•	-	•		•		•		•		•				•	•		•
Graphic Display					•	-							•		•				•			
Lcd Display	•		•	-			•		•		•	-		-		-	•			•	•	•
Windshield			•	•	•	-	•		•		•											
External Calibration			•	•	•		•		•		•		•						•		•	•
Internal Calibration		•	•	•		-		-	•	-		•	•	•				•				
Tablet System				_			_															
M Verifica- tion Tablet System																						
Page	8	6	10	=	12	13	16	17	18	19	24	14	15	20	21	25	27	22	23	76	27	αC
Family Name	W	MG	×	MW	MG	MGW		57	M	RGW	S	×	MG	Γ	57	S	ES	Т	57	S	ES	7
Weighing Range	120g-310g	120g-310g	220g-1220g	220g-1200g	220g-1200g	220g-1200g	160g-420g	160g-420g	160g-420g	160g-420g	120g-420g	2200g-8200g	2200g-8200g	1000g-5200g	1000g-5200g	620g-4200g	200g-420g	4500g-2000g	4500g-2000g	3200g-6500g	1000g-2200g	20000
Resolution	0,0001g	0,0001g	0,001g	0,001g	0,001g	0,001g	0,001g	0,001g	0,001g	0,001g	0,001g	0,019	0,01g	0,01g	0,01g	0,01g	0,01g	0,19	0,19	0,19	0,1g	0 27 21 0

Moisture Balances

Battery / Battery Pack				
Internal Accumu- Iator				
Hook				
Multi- Language				
dlp				
Units	•			
Rs2332	•	•		•
Touch Scre- en Display			•	
Lcd Display	•			
Database			•	
External Calibration	•			
Halogen Infrared Lamp	•		•	
Tablet System	0			
Thermo- meter Calibration	П			
Page	29	29	30	29
Family Name Page	i-Thermo 29	i-Thermo 29	i-Thermo	i-Thermo 29
Weighing Range	609	160g	160g	609
Resolution	0,0001g	0,001g	0,001g	0,019

BEL Tablet System for Precision Balances

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

Expand

The innovative BEL Tablet System expands the capability of your BEL precision balance by increasing the funcionality 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 BEL 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):

M family	LCD display, from 0.0001g to 0.01g resolution
MW family	LCD display, 0.001g resolution
L family	LCD display, from 0.001g to 0.1g resolution
LW family	LCD display, 0.001g resolution
KL family	LCD display, from 0.1g to 1g resolution
S	LCD display, from 0.001g to 0.1g resolution

Accessories:

Wireless Printer	Bluetooth wireless printer (works also with batteries). Model DPP-250-BT, code AC013.
------------------	---

Code	Description
BL0329	BEL Tablet System for balances. Includes Tablet, Tab-box, support, Application. USB version.
BL0330	BEL Tablet System for balances. Includes Tablet, Tab-box, support, Application. BLUETOOTH version.





Functions included in the APP:

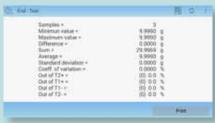
Simple Weighing	Basic weighing operations with multiple measuring units, calibration, preTare and zero/Tare commands.
Piece Counting	Piece counting function with 10, 25 samples, mean sample weight or from database entry.
Check Weight	Set lower and upper limit value of weight, values can be stored.
Weight %	Percentage measurement among weights.
Density	Density measurments, also from database stored values.
Statistics	Maximum, Minimum, Average, Sum, Standard deviation
Gross Net Tare	Display simultaneousily 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 backuped 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 AC013) printer so that weighing data can be printed easily without connection cables.



Recipe function



Statistics



Density function.



Check Weight function.



Weight % function.



Piece Count function.

BEL Tablet System for Moisture Balances

i-Thermo balances can be connected to BEL 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. BEL Tablet system expands the possibility of BEL 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

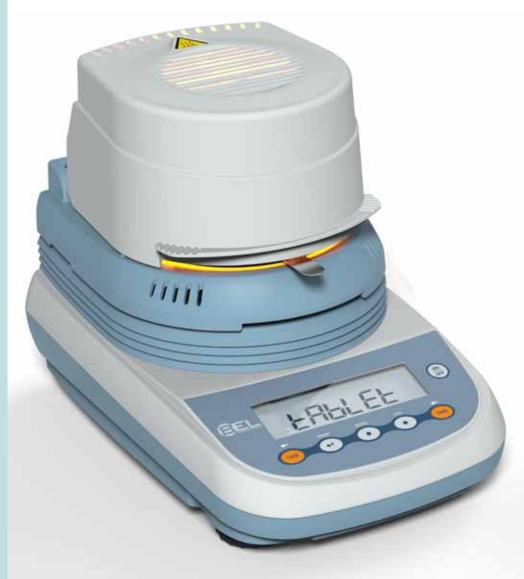
- The large display shows all informations at same time, that is preferable for moisture determination analysis
- See the REAL-TIME graph of ongoing sample drying process
- Save time: easy to use and intuitive touch screen technology
- Save space: Centralize your weighing actions in one place
- Immediately 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 (AC013)



The BEL 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:

i-Thermo LCD display, from 0.0001g to 0.01g resolution
--

Code	Description
BL0361	BEL Tablet System for Moisture balances. Includes Tablet, Tab-box, support, Application. USB version.
BL0362	BEL Tablet System for Moisture balances. Includes Tablet, Tab-box, support, Application. BLUETOOTH version.







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, Adjustument points
Peripherials	Print header configuration, print time/date, Printer selection
Profiles	It is possible to create up to 10 differente profiles. Each profile has its own preferences and database management.
Backup/Restore	Database can be backuped and restored in case of necessity
Bluetooth	The Tablet Bluetooth can send data to the DPP-250-BT (code AC013) printer so thatdrying process results and graph can bequickly printed
GLP	Allows to store the identification data of balance, project and user



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

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

Accessories

- BEL Tablet System for balances. USB version (BL0329) or BLUETOOTH version (BL0330). (1)
- Bluetooth printer DPP-250-BT for BEL Tablet system (AC013)
- Serial Printer TLP-50, with date/time (C054)
- Serial Printer DPP-250 (AC007)
- Density KIT for solids and liquids (AC002)
- Alphanumeric external keyboard (AC005)
- Serial to USB converter (E1002)
- Serial cable for serial output to printer or PC (E743)
- Calibration certificate (BL0333)
- Conformity Declaration (Verification)

Technical data

Common features

- Span drift (+ 10...+ 30 °C): +/- 3ppm/°C
- Dimensions LxWxH (mm): 345x215x345
- Weighing chamber dimensions LxWxH (mm): 160x140x330
- Power supply 110-230Vac, 50/60Hz; output 24V 500mA 13VA

External calibration models

Net Weight: 6,3Kg

Internal calibration models

Net Weight: 6,6Kg

MARK M - Resolution 0,0001g





Model





Capacity

(g)





Resolution

(g)







Repeatibility

(g)



Linearity

(g)



time

(sec.)



External	calibr	ation

Pan

(mm)

M124A	120	0.0001	Ø 80	0,0001	± 0.0003	≤ 4	=
M164A	160	0.0001	Ø 80	0,0001	± 0.0003	≤ 4	-
M214A	220	0.0001	Ø 80	0,0001	± 0.0003	≤ 4	-
M254A	250	0.0001	Ø 80	0,0001	± 0.0003	≤ 4	-
M314A	310	0.0001	Ø 80	0,0001	± 0.0004	≤ 4	-

Automatic internal calibration

M124Ai	120	0.0001	Ø 80	0,0001	± 0.0003	≤ 4	М
M164Ai	160	0.0001	Ø 80	0,0001	± 0.0003	≤ 4	М
M214Ai	220	0.0001	Ø 80	0,0001	± 0.0003	≤ 4	M
M254Ai	250	0.0001	Ø 80	0,0001	± 0.0003	≤ 4	М
M314Ai	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. M214Ai-M



Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatibility (g)	Linearity (g)	Response time (sec.)	Verification (optional ²)
	_	_					

External calibration

MG124A	120	0.0001	Ø 80	0,0001	± 0.0003	≤ 4	-
MG164A	160	0.0001	Ø 80	0,0001	± 0.0003	≤ 4	-
MG214A	220	0.0001	Ø 80	0,0001	± 0.0003	≤ 4	-
MG254A	250	0.0001	Ø 80	0,0001	± 0.0003	≤ 4	-
MG314A	310	0.0001	Ø 80	0,0001	± 0.0004	≤ 4	-

Automatic internal calibration

MG124Ai	120	0.0001	Ø 80	0,0001	± 0.0003	≤ 4	M
MG164Ai	160	0.0001	Ø 80	0,0001	± 0.0003	≤ 4	M
MG214Ai	220	0.0001	Ø 80	0,0001	± 0.0003	≤ 4	M
MG254Ai	250	0.0001	Ø 80	0,0001	± 0.0003	≤ 4	М
MG314Ai	310	0.0001	Ø 80	0,0001	± 0.0004	≤ 4	-

A Top Quality series of Analytical Balances that combine elegance with highly reliable measuring performance. Double case structure, ergonomic keypad. MG 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

Accessories

- Serial Printer TLP-50, with date/time (C054)
- Serial Printer DPP-250 (AC007)
- Density KIT for solids and liquids (AC002)
- Alphanumeric external keyboard (AC005)
- Serial to USB converter (E1002)
- Serial cable for serial output to printer or PC (E743)
- Calibration certificate (BL0333)
- Conformity Declaration (Verification)

Technical data

Common features

- $\hfill \Box$ Span drift (+ 10...+ 30 °C): +/- 3ppm/°C
- Dimensions LxWxH (mm): 345x215x345
- Weighing chamber dimensions LxWxH (mm): 160x140x330
- Power supply 110-230Vac, 50/60Hz; output 24V 500mA 13VA

External calibration models

Net Weight: 6,3Kg

Internal calibration models

Net Weight: 6,6Kg

⁽¹⁾ Not available for verified models

⁽²⁾ To order Verification please add -M to name, e.g. M214Ai-M

MARK M - Resolution 0,001g

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)

Accessories

- BEL Tablet System for balances. USB version (BL0329) or BLUETOOTH version (BL0330). (1)
- Bluetooth printer DPP-250-BT for BEL Tablet system (AC013)
- Serial Printer TLP-50, with date/time (C054)
- Serial Printer DPP-250 (AC007)
- Density KIT for solids and liquids (AC002)
- Density KIT for solids (AC001)
- Alphanumeric external keyboard (AC005)
- Serial to USB converter (E1002)
- Serial cable for serial output to printer or PC (E743)
- Calibration certificate (BL0333)
- Conformity Declaration (Verification)

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

- (1) Not available for verified models
- (2) To order Verification please add -M to name, e.g. M214Ai-M









Capacity







Resolution



Pan



Repeatibility





Linearity



Response

Verification

Model	(g)	(g)	(mm)	(g)	(g)	(sec.)	M				
	_	_	_	_	_	_					
	External calibration										
M223	220	0.001	Ø 110	0.0005	± 0.002	≤ 2	-				
M333	330	0.001	Ø 110	0.0005	± 0.002	≤ 2	=				
M503	500	0.001	Ø 110	0,001	± 0.002	≤ 2	-				
M523	520	0.001	Ø 110	0,001	± 0.002	≤ 2	-				
M723	720	0.001	Ø 110	0,001	± 0.002	≤ 2	-				
M1003	1000	0.001	Ø 110	0,001	± 0.003	≤ 3	-				
M1203	1200	0.001	Ø 110	0,001	± 0.003	≤ 3	-				
M1003D	500/1000	0.001/0.01	Ø 110	0,001/0,005	± 0.001/± 0.01	≤ 2	-				
M1203D	720/1200	0.001/0.01	Ø 110	0,001/0,005	±0,002/±0,01	≤ 2	-				

Internal Automatic Calibration

M223i	220	0.001	Ø 110	0.0005	± 0.002	≤ 2	M
M333i	330	0.001	Ø 110	0.0005	± 0.002	≤ 2	М
M503i	500	0.001	Ø 110	0,001	± 0.002	≤ 2	М
M523i	520	0.001	Ø 110	0,001	± 0.002	≤ 2	M
M723i	720	0.001	Ø 110	0,001	± 0.002	≤ 2	M
M1003i	1000	0.001	Ø 110	0,001	± 0.003	≤ 3	-
M1203i	1200	0.001	Ø 110	0,001	± 0.003	≤ 3	-
M1003Di	500/1000	0.001/0.01	Ø 110	0,001/0,005	± 0.001/± 0.01	≤ 2	М
M1203Di	720/1200	0.001/0.01	Ø 110	0,001/0,005	±0,002/±0,01	≤ 2	M



Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatibility (g)	Linearity (g)	time (sec.)	(optional ²)
_	_	E	xternal o	alibration	•		_
MW223	220	0.001	Ø 110	0.0005	± 0.002	≤ 2	-
MW333	330	0.001	Ø 110	0.0005	± 0.002	≤ 2	=
MW503	500	0.001	Ø 110	0,001	± 0.002	≤ 2	-
MW523	520	0.001	Ø 110	0,001	± 0.002	≤ 2	=
MW723	720	0.001	Ø 110	0,001	± 0.002	≤ 2	-
MW1003	1000	0.001	Ø 110	0,001	± 0.003	≤ 3	=
MW1203	1200	0.001	Ø 110	0,001	± 0.003	≤ 3	-
MW1003D	500/1000	0.001/0.01	Ø 110	0,001/0,005	± 0.001/± 0.01	≤ 2	=
MW1203D	720/1200	0.001/0.01	Ø 110	0,001/0,005	±0,002/±0,01	≤ 2	-

Internal Automatic Calibration

MW223i	220	0.001	Ø 110	0.0005	± 0.002	≤ 2	M
MW333i	330	0.001	Ø 110	0.0005	± 0.002	≤ 2	M
MW503i	500	0.001	Ø 110	0,001	± 0.002	≤ 2	M
MW523i	520	0.001	Ø 110	0,001	± 0.002	≤ 2	M
MW723i	720	0.001	Ø 110	0,001	± 0.002	≤ 2	M
MW1003i	1000	0.001	Ø 110	0,001	± 0.003	≤ 3	-
MW1203i	1200	0.001	Ø 110	0,001	± 0.003	≤ 3	-
MW1003Di	500/1000	0.001/0.01	Ø 110	0,001/0,005	± 0.001/± 0.01	≤ 2	М
MW1203Di	720/1200	0.001/0.01	Ø 110	0,001/0,005	±0,002/±0,01	≤ 2	M

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)

Accessories

.. . Response Verification

- BEL Tablet System for balances. USB version (BL0329) or BLUETOOTH version (BL0330). (1)
- Bluetooth printer DPP-250-BT for BEL Tablet system (AC013)
- Serial Printer TLP-50, with date/time (C054)
- Serial Printer DPP-250 (AC007)
- Density KIT for solids and liquids (AC002)
- Alphanumeric external keyboard (AC005)
- Serial to USB converter (E1002)
- Serial cable for output to printer/PC (E743)
- Calibration certificate (BL0333)
- Conformity Declaration (Verification)

Technical data

Common features

- Span drift (+ 10...+ 30 °C): +/- 4ppm/°C
- Dimensions LxWxH (mm): 345x215x345
- Weighing chamber dimensions LxWxH (mm): 160x140x330
- Power supply 110-230Vac, 50/60Hz; output 24V 500mA 13VA

External calibration models

Net Weight: 6,1Kg

Internal calibration models

Net Weight: 6,3Kg

- (1) Not available for verified models
- (2) To order Verification please add -M to name, e.g. M214Ai-M

MARK MG - Resolution 0,001g

Double case structure, ergonomic keypad. MG 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)

Accessories

- Serial Printer TLP-50, with date/time (C054)
- Serial Printer DPP-250 (AC007)
- Density KIT for solids and liquids (AC002)
- Density KIT for solids (AC001)
- Alphanumeric external keyboard (AC005)
- Serial to USB converter (E1002)
- Serial cable for serial output to printer or PC (E743)
- Calibration certificate (BL0333)
- Conformity Declaration (Verification)

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

- (1) Not available for verified models
- (2) To order Verification please add -M to name, e.g. M214Ai-M



Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatibility (g)	Linearity (g)	Response time (sec.)	Verification (optional ²)
		_		_			

External calibration 220 0.001 Ø 110 0.0005 ± 0.002 ≤ 2 −

MG223	220	0.001	Ø 110	0.0005	± 0.002	≤ 2	-
MG333	330	0.001	Ø 110	0.0005	± 0.002	≤ 2	-
MG503	500	0.001	Ø 110	0,001	± 0.002	≤ 2	-
MG523	520	0.001	Ø 110	0,001	± 0.002	≤ 2	-
MG723	720	0.001	Ø 110	0,001	± 0.002	≤ 2	-
MG1003	1000	0.001	Ø 110	0,001	± 0.003	≤ 3	-
MG1203	1200	0.001	Ø 110	0,001	± 0.003	≤ 3	-
MG1003D	500/1000	0.001/0.01	Ø 110	0,001/0,005	± 0.001/± 0.01	≤ 2	-
MG1203D	720/1200	0.001/0.01	Ø 110	0,001/0,005	±0,001/±0,01	≤ 2	-

Internal Automatic Calibration

MG223i	220	0.001	Ø 110	0.0005	± 0.002	≤ 2	M
MG333i	330	0.001	Ø 110	0.0005	± 0.002	≤ 2	M
MG503i	500	0.001	Ø 110	0,001	± 0.002	≤ 2	M
MG523i	520	0.001	Ø 110	0,001	± 0.002	≤ 2	M
MG723i	720	0.001	Ø 110	0,001	± 0.002	≤ 2	M
MG1003i	1000	0.001	Ø 110	0,001	± 0.003	≤ 3	=
MG1203i	1200	0.001	Ø 110	0,001	± 0.003	≤ 3	-
MG1003Di	500/1000	0.001/0.01	Ø 110	0,001/0,005	± 0.001/± 0.01	≤ 2	M
MG1203Di	720/1200	0.001/0.01	Ø 110	0,001/0,005	±0,001/±0,01	≤ 2	M

MARK MGW - Resolution 0,001g



Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatibility (g)	Linearity (g)	Response time (sec.)	Verification (optional ²)				
External calibration											
MGW223	220	0.001	Ø 110	0.0005	± 0.002	≤ 2	_				
MGW333	330	0.001	Ø 110	0.0005	± 0.002	≤ 2	-				
MGW503	500	0.001	Ø 110	0,001	± 0.002	≤ 2	-				

Ø 110

Ø 110

Ø 110

Ø 110

Ø 110

Ø 110

(ADD) (ANIMAL)

0.001

0.001

0.001

0.001

0.001/0.01

0.001/0.01

PCS LIMITS % WEIGH

MGW523

MGW723

MGW1003

MGW1203

MGW1003D

MGW1203D

520

720

1000

1200

500/1000

720/1200

PEAK GLP

0,001

0,001

0,001

0,001

0.001/0.005

0,001/0,005

± 0.002

± 0.002

 ± 0.003

± 0.003

± 0.001/± 0.01

±0,001/±0,01

≤ 2

≤ 2

≤ 3

≤ 3

≤ 2

≤ 2

Internal Automatic Calibration

MGW223i	220	0.001	Ø 110	0.0005	± 0.002	≤ 2	М
MGW333i	330	0.001	Ø 110	0.0005	± 0.002	≤ 2	М
MGW503i	500	0.001	Ø 110	0,001	± 0.002	≤ 2	M
MGW523i	520	0.001	Ø 110	0,001	± 0.002	≤ 2	М
MGW723i	720	0.001	Ø 110	0,001	± 0.002	≤ 2	M
MGW1003i	1000	0.001	Ø 110	0,001	± 0.003	≤ 3	=
MGW1203i	1200	0.001	Ø 110	0,001	± 0.003	≤ 3	-
MGW1003Di	500/1000	0.001/0.01	Ø 110	0,001/0,005	± 0.001/± 0.01	≤ 2	М
MGW1203Di	720/1200	0.001/0.01	Ø 110	0,001/0,005	±0,001/±0,01	≤ 2	М

A Top Quality series of Precision Balances that combine elegance with highly reliable measuring performance. Double case structure, ergonomic keypad. MGW 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)

Accessories

- Serial Printer TLP-50, with date/time (C054)
- Serial Printer DPP-250 (AC007)
- Density KIT for solids and liquids (AC002)
- Density KIT for solids (AC001)
- Alphanumeric external keyboard (AC005)
- Serial to USB converter (E1002)
- ☐ Serial cable for serial output to printer or PC (E743)
- Calibration certificate (BL0333)
- Conformity Declaration (Verification)

Technical data

Common features

- Span drift (+ 10...+ 30 °C): +/- 4ppm/°C
- Dimensions LxWxH (mm): 345x215x345
- Weighing chamber dimensions LxWxH (mm): 160x140x330
- Power supply 110-230Vac, 50/60Hz; output 24V 500mA 13VA

External calibration models

Net Weight: 6,1Kg

Internal calibration models

Net Weight: 6,3Kg

(2) To order Verification please add -M to name, e.g. M214Ai-M

⁽¹⁾ Not available for verified models

MARK M - Resolution 0,01g

Balances series M combine the nice BEL design with high level performance, guaranteed by the electromagnatic 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)

Accessories

- BEL Tablet System for balances. USB version (BL0329) or BLUETOOTH version (BL0330). (1)
- Bluetooth printer DPP-250-BT for BEL Tablet system (AC013)
- Serial Printer TLP-50, with date/time
- Serial Printer DPP-250 (AC007)
- Density KIT for solids and liquids (AC002)
- Density KIT for solids (AC001)
- Alphanumeric external keyboard (AC005)
- Serial to USB converter (E1002)
- Serial cable for serial output to printer or PC (E743)
- Calibration certificate (BL0333)
- Conformity Declaration (Verification)

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

- (1) Not available for verified models
- (2) To order Verification please add -M to name, e.g. M214Ai-M





Model





Capacity





Resolution

(g)







Repeatibility

(g)







External calibration

(mm)

M2202	2200	0,01	Ø 160	0.005	± 0.02	≤ 2	-
M3102	3100	0,01	Ø 160	0,01	± 0.02	≤ 2	-
M4202	4200	0,01	Ø 160	0,01	± 0.03	≤ 2	-
M5202	5200	0,01	Ø 160	0,01	± 0.03	≤ 3	-
M6202	6200	0,01	Ø 160	0,01	± 0.03	≤ 3	-
M8202	8200	0,01	Ø 160	0,01	± 0.04	≤ 3	-
M5502D	800/5500	0.01/0.1	Ø 160	0.005/0.03	± 0.01/± 0.1	≤ 2	-
M5202D	3000/5200	0.01/0.1	Ø 160	0,01/0,03	± 0.02/± 0.1	≤ 2	-
M6202D	4000/6200	0.01/0.1	Ø 160	0,01/0,03	±0,03/±0,1	≤ 3	-

Automatic internal calibration

M2202i	2200	0,01	Ø 160	0,01	± 0.02	≤ 2	M
M3102i	3100	0,01	Ø 160	0,01	± 0.02	≤ 2	М
M4202i	4200	0,01	Ø 160	0,01	± 0.03	≤ 2	М
M5202i	5200	0,01	Ø 160	0,01	± 0.03	≤ 3	М
M6202i	6200	0,01	Ø 160	0,01	± 0.03	≤ 3	M
M5502Di	800/5500	0.01/0.1	Ø 160	0.005/0.03	± 0.01/± 0.1	≤ 2	М
M5202Di	3000/5200	0.01/0.1	Ø 160	0,01/0,03	± 0.02/± 0.1	≤ 2	М
M6202Di	4000/6200	0.01/0.1	Ø 160	0,01/0,03	±0,03/±0,1	≤ 3	М

























Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatibility (g)	Linearity (g)	Response time (sec.)	Verification (optional ²)

External calibration

MG2202	2200	0,01	Ø 160	0.005	± 0.02	≤ 2	-
MG3102	3100	0,01	Ø 160	0,01	± 0.02	≤ 2	-
MG4202	4200	0,01	Ø 160	0,01	± 0.03	≤ 2	-
MG5202	5200	0,01	Ø 160	0,01	± 0.03	≤ 3	-
MG6202	6200	0,01	Ø 160	0,01	± 0.03	≤ 3	
MG8202	8200	0,01	Ø 160	0,01	± 0.04	≤ 3	
MG5502D	800/5500	0.01/0.1	Ø 160	0.005/0.03	± 0.01/± 0.1	≤ 2	-
MG5202D	3000/5200	0.01/0.1	Ø 160	0,01/0,03	± 0.02/± 0.1	≤ 2	
MG6202D	4000/6200	0.01/0.1	Ø 160	0,01/0,03	±0,03/±0,1	≤ 3	-

Automatic internal calibration

MG2202i	2200	0,01	Ø 160	0,01	± 0.02	≤ 2	М
MG3102i	3100	0,01	Ø 160	0,01	± 0.02	≤ 2	М
MG4202i	4200	0,01	Ø 160	0,01	± 0.03	≤ 2	М
MG5202i	5200	0,01	Ø 160	0,01	± 0.03	≤ 3	М
MG6202i	6200	0,01	Ø 160	0,01	± 0.03	≤ 3	M
MG5502Di	800/5500	0.01/0.1	Ø 160	0.005/0.03	± 0.01/± 0.1	≤ 2	М
MG5202Di	3000/5200	0.01/0.1	Ø 160	0,01/0,03	± 0.02/± 0.1	≤ 2	М
MG6202Di	4000/6200	0.01/0.1	Ø 160	0,01/0,03	±0,03/±0,1	≤ 3	М

Balances series MG combine the nice BEL design with high level performance, guaranteed by the electromagnetic force restoration weighing cell. Double case structure, ergonomic keypad. MG 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)

Accessories

- Serial Printer TLP-50, with date/time (C054)
- Serial Printer DPP-250 (AC007)
- Density KIT for solids and liquids (AC002)
- Density KIT for solids (AC001)
- Alphanumeric external keyboard (AC005)
- Serial to USB converter (E1002)
- Serial cable for serial output to printer or PC (E743)
- Calibration certificate (BL0333)
- Conformity Declaration (Verification)

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

(2) To order Verification please add -M to name, e.g. M214Ai-M

⁽¹⁾ Not available for verified models

MARK L - Resolution 0,001g

Balances Series L 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)

Accessories

- BEL Tablet System for balances. USB version (BL0329) or BLUETOOTH version (BL0330). (1)
- Bluetooth printer DPP-250-BT for BEL Tablet system (AC013)
- Serial Printer TLP-50, with date/time (C054)
- Serial Printer DPP-250 (AC007)
- Portable rechargeable battery pack (AC015)
- Density KIT for solids and liquids (AC002)
- Density KIT for solids (AC001)
- Alphanumeric external keyboard (AC005)
- Serial to USB converter (E1002)
- Serial cable for serial output to printer or PC (E743)
- Calibration certificate (BL0333)

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

- (1) Only for external calibration model
- (2) Optional external battery pack (AC015)



























Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatibility (g)	Linearity (g)	Response time (sec.)

External calibration

L163	160	0.001	Ø 110	0.0006	± 0.003	≤ 3
L203	210	0.001	Ø 110	0.0006	± 0.003	≤ 3
L303	310	0.001	Ø 110	0.0006	± 0.003	≤ 3
L303D	150/310	0.001/0.01	Ø 110	0.0006/0.005	± 0.003/± 0.02	≤ 3
L423	420	0.001	Ø 110	0.001	± 0.004	≤ 4

Automatic internal calibration

L163i	160	0.001	Ø 110	0.0006	± 0.003	≤ 3
L203i	210	0.001	Ø 110	0.0006	± 0.003	≤ 3
L303i	310	0.001	Ø 110	0.0006	± 0.003	≤ 3
L303Di	150/310	0.001/0.01	Ø 110	0.0006/0.005	± 0.003/±0.02	≤ 3
L423i	420	0.001	Ø 110	0.001	± 0.004	≤ 4

























Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatibility (g)	Linearity (g)	Response time (sec.)
	_	_			_	

External calibration

LG163	160	0.001	Ø 110	0.0006	± 0.003	≤ 3
LG203	210	0.001	Ø 110	0.0006	± 0.003	≤ 3
LG303	310	0.001	Ø 110	0.0006	± 0.003	≤ 3
LG303D	150/310	0.001/0.01	Ø 110	0.0006/0.005	± 0.003/±0.02	≤ 3
LG423	420	0.001	Ø 110	0.001	± 0.004	≤ 4

Automatic internal calibration

LG163i	160	0.001	Ø 110	0.0006	± 0.003	≤ 3
LG203i	210	0.001	Ø 110	0.0006	± 0.003	≤ 3
LG303i	310	0.001	Ø 110	0.0006	± 0.003	≤ 3
LG303Di	150/310	0.001/0.01	Ø 110	0.0006/0.005	± 0.003/±0.02	≤ 3
LG423i	420	0.001	Ø 110	0.001	± 0.004	≤ 4

A Top Quality series of Precision Balances that combine elegance with highly reliable measuring performance. Double case structure, ergonomic keypad. LG 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)

Accessories

- Serial Printer TLP-50, with date/time (C054)
- Serial Printer DPP-250 (AC007)
- Density KIT for solids and liquids (AC002)
- Density KIT for solids (AC001)
- Portable rechargeable battery pack (AC015)
- Alphanumeric external keyboard (AC005)
- Serial to USB converter (E1002)
- Serial cable for serial output to printer or PC (E743)
- Calibration certificate (BL0333)

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: 3,3Kg

Internal calibration models

Net Weight: 3,6Kg

- (1) Only for external calibration model
- (2) Optional external battery pack (AC015)

MARK LW - Resolution 0,001g

Balances Series LW 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)

Accessories

- BEL Tablet System for balances. USB version (BL0329) or BLUETOOTH version (BL0330).
- Bluetooth printer DPP-250-BT for BEL Tablet system (AC013)
- Serial Printer TLP-50, with date/time (C054)
- Serial Printer DPP-250 (AC007)
- Portable rechargeable battery pack (AC015)
- Density KIT for solids and liquids (AC002)
- Density KIT for solids (AC001)
- Alphanumeric external keyboard (AC005)
- Serial to USB converter (E1002)
- Serial cable for serial output to printer or PC (E743)
- Calibration certificate (BL0333)

Technical data

Common features

- Span drift (+ 10...+ 30 °C): +/- 4ppm/°C
- Dimensions LxWxH (mm): 345x215x345
- Weighing chamber dimensions LxWxH (mm): 160x140x330
- Power supply 110-230Vac, 50/60Hz; output 24V 500mA 13VA

External calibration models

Net Weight: 4,3Kg

Internal calibration models

- Net Weight: 4,6Kg
- (1) Only for external calibration model
- (2) Optional external battery pack (AC015)





























Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatibility (g)	Linearity (g)	Response time (sec.)

External calibration

LW163	160	0.001	Ø 110	0.0006	± 0.003	≤ 3
LW203	210	0.001	Ø 110	0.0006	± 0.003	≤ 3
LW303	310	0.001	Ø 110	0.0006	± 0.003	≤ 3
LW303D	150/310	0.001/0.01	Ø 110	0.0006/0.005	± 0.003/± 0.02	≤ 3
LW423	420	0.001	Ø 110	0.001	± 0.004	≤ 4

Automatic internal calibration

LW163i	160	0.001	Ø 110	0.0006	± 0.003	≤ 3
LW203i	210	0.001	Ø 110	0.0006	± 0.003	≤ 3
LW303i	310	0.001	Ø 110	0.0006	± 0.003	≤ 3
LW303Di	150/310	0.001/0.01	Ø 110	0.0006/0.005	± 0.003/± 0.02	≤ 3
LW423i	420	0.001	Ø 110	0.001	± 0.004	≤ 4

MARK LGW - Resolution 0,001g



Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatibility (g)	Linearity (g)	Response time (sec.)

External calibration

LGW163	160	0.001	Ø 110	0.0006	± 0.003	≤ 3
LGW203	210	0.001	Ø 110	0.0006	± 0.003	≤ 3
LGW303	310	0.001	Ø 110	0.0006	± 0.003	≤ 3
LGW303D	150/310	0.001/0.01	Ø 110	0.0006/0.005	± 0.003/± 0.02	≤ 3
LGW423	420	0.001	Ø 110	0.001	± 0.004	≤ 4

Automatic internal calibration

LGW163i	160	0.001	Ø 110	0.0006	± 0.003	≤ 3
LGW203i	210	0.001	Ø 110	0.0006	± 0.003	≤ 3
LGW303i	310	0.001	Ø 110	0.0006	± 0.003	≤ 3
LGW303Di	150/310	0.001/0.01	Ø 110	0.0006/0.005	± 0.003/± 0.02	≤ 3
LGW423i	420	0.001	Ø 110	0.001	± 0.004	≤ 4

A Top Quality series of Precision Balances that combine elegance with highly reliable measuring performance. Double case structure, ergonomic keypad. LGW 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

Accessories

- Serial Printer TLP-50, with date/time (C054)
- Serial Printer DPP-250 (AC007)
- Density KIT for solids and liquids (AC002)
- Density KIT for solids (AC001)
- Portable rechargeable battery pack (AC015)
- Alphanumeric external keyboard (AC005)
- Serial to USB converter (E1002)
- Serial cable for serial output to printer or PC (E743)
- Calibration certificate (BL0333)
- Conformity Declaration (Verification)

Technical data

Common features

- Span drift (+ 10...+ 30 °C): +/- 4ppm/°C
- Dimensions LxWxH (mm): 345x215x345
- Weighing chamber dimensions LxWxH (mm): 160x140x330
- Power supply 110-230Vac, 50/60Hz; output 24V 500mA 13VA

External calibration models

Net Weight: 4,3Kg

Internal calibration models

Net Weight: 4,6Kg

- (1) Only for external calibration model
- (2) Optional external battery pack (AC015)

MARK L - Resolution 0,01g

Balances Series L 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)

Accessories

- BEL Tablet System for balances. USB version (BL0329) or BLUETOOTH version (BL0330).
- Bluetooth printer DPP-250-BT for BEL Tablet system (AC013)
- Serial Printer TLP-50, with date/time (C054)
- Serial Printer DPP-250 (AC007)
- Portable rechargeable battery pack (AC015)
- Density KIT for solids and liquids (AC002)
- Density KIT for solids (AC001)
- Alphanumeric external keyboard (AC005)
- Serial to USB converter (E1002)
- Serial cable for serial output to printer or PC (E743)
- Calibration certificate (BL0333)

Technical data

Common features

- Span drift (+ 10...+ 30 °C): +/- 5ppm/°C
- Dimensions LxWxH (mm): 345x215x100
- Power supply 110-230Vac, 50/60Hz; output 24V 500mA 13VA

External calibration models

Net Weight: 3,3Kg

Internal calibration models

Net Weight: 3,6Kg

























Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatibility (g)	Linearity (g)	Response time (sec.)

External calibration

L1002	1000	0,01	Ø 160	0.01	± 0.02	≤ 3
L1502	1500	0,01	Ø 160	0.01	± 0.02	≤ 3
L2102	2100	0,01	Ø 160	0.01	± 0.03	≤ 3
L3102	3100	0,01	Ø 160	0.01	± 0.03	≤ 3
L4202	4200	0,01	Ø 160	0.01	± 0.04	≤ 4
L5202	5200	0,01	Ø 160	0.01	± 0.04	≤ 4

Automatic internal calibration

L1002i	1000	0,01	Ø 160	0.01	± 0.02	≤ 3
L1502i	1500	0,01	Ø 160	0.01	± 0.02	≤ 3
L2102i	2100	0,01	Ø 160	0.01	± 0.03	≤ 3
L3102i	3100	0,01	Ø 160	0.01	± 0.03	≤ 3
L4202i	4200	0,01	Ø 160	0.01	± 0.04	≤ 4

⁽¹⁾ Only for external calibration model

⁽²⁾ Optional external battery pack (AC015)





























Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatibility (g)	Linearity (g)	Response time (sec.)
				_	_	

External calibration

LG1002	1000	0,01	Ø 160	0.01	± 0.02	≤ 3
LG1502	1500	0,01	Ø 160	0.01	± 0.02	≤ 3
LG2102	2100	0,01	Ø 160	0.01	± 0.03	≤ 3
LG3102	3100	0,01	Ø 160	0.01	± 0.03	≤ 3
LG4202	4200	0,01	Ø 160	0.01	± 0.04	≤ 4
LG5202	5200	0,01	Ø 160	0.01	± 0.04	≤ 4

Automatic internal calibration

LG1002i	1000	0,01	Ø 160	0.01	± 0.02	≤ 3
LG1502i	1500	0,01	Ø 160	0.01	± 0.02	≤ 3
LG2102i	2100	0,01	Ø 160	0.01	± 0.03	≤ 3
LG3102i	3100	0,01	Ø 160	0.01	± 0.03	≤ 3
LG4202i	4200	0,01	Ø 160	0.01	± 0.04	≤ 4

A Top Quality series of Precision Balances that combine elegance with highly reliable measuring performance. Double case structure, ergonomic keypad. LG 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)

Accessories

- Serial Printer TLP-50, with date/time (C054)
- Serial Printer DPP-250 (AC007)
- Density KIT for solids and liquids (AC002)
- Density KIT for solids (AC001)
- Portable rechargeable battery pack (AC015)
- Alphanumeric external keyboard (AC005)
- Serial to USB converter (E1002)
- Serial cable for serial output to printer or PC (E743)
- Calibration certificate (BL0333)

Technical data

Common features

- Span drift (+ 10...+ 30 °C): +/- 5ppm/°C
- Dimensions LxWxH (mm): 345x215x100
- Power supply 110-230Vac, 50/60Hz; output 24V 500mA 13VA

External calibration models

Net Weight: 3,3Kg

Internal calibration models

Net Weight: 3,6kg

⁽¹⁾ Only for external calibration model

⁽²⁾ Optional external battery pack (AC015)

MARK L - Resolution 0,1g

Balances Series L 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, maximum capacity 20Kg. Many embedded advanced features make them perfect for your work.

Features

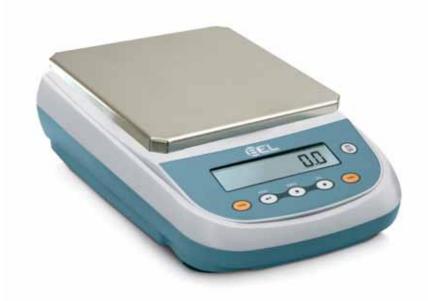
- High resolution load cell weighing system
- External calibration
- LCD with backlight with adjustable contrast
- Plastic protection cover
- Under hook weighing

Accessories

- BEL Tablet System for balances. USB version (BL0329) or BLUETOOTH version (BL0330).
- Bluetooth printer DPP-250-BT for BEL Tablet system (AC013)
- Serial Printer TLP-50, with date/time (C054)
- Serial Printer DPP-250 (AC007)
- Portable rechargeable battery pack (AC015)
- Alphanumeric external keyboard (AC005)
- Serial to USB converter (E1002)
- Serial cable for serial output to printer or PC (E743)
- Calibration certificate (BL0333)

Technical data

- Span drift (+ 10...+ 30 °C): +/- 6ppm/°C
- Dimensions LxWxH (mm): 345x215x100
- Power supply 110-230Vac, 50/60Hz; output 24V 500mA 13VA
- Net Weight: 3,5Kg























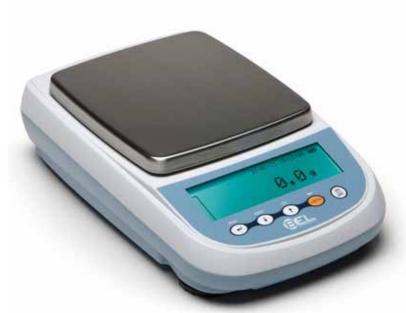




Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatibility (g)	Linearity (g)	Response time (sec.)
_						

External calibration

L4501	4500	0.1	175x195	0.05	± 0.1	≤ 2
L5201	5200	0.1	175x195	0.05	± 0.1	≤ 2
L6501	6500	0.1	175x195	0.05	± 0.1	≤ 2
L8001	8000	0.1	175x195	0.05	± 0.2	≤ 2
L10001	10000	0.1	175x195	0.05	± 0.2	≤ 2
L12001	12000	0.1	175x195	0.05	± 0.2	≤ 3
L16001	16000	0.1	175x195	0.08	± 0.3	≤ 3
L20001	20000	0.1	175x195	0.1	± 0.4	≤ 4



























Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatibility (g)	Linearity (g)	Response time (sec.)

External calibration

LG4501	4500	0.1	175x195	0.05	± 0.1	≤ 2
LG5201	5200	0.1	175x195	0.05	± 0.1	≤ 2
LG6501	6500	0.1	175x195	0.05	± 0.1	≤ 2
LG8001	8000	0.1	175x195	0.05	± 0.2	≤ 2
LG10001	10000	0.1	175x195	0.05	± 0.2	≤ 2
LG12001	12000	0.1	175x195	0.05	± 0.2	≤ 3
LG16001	16000	0.1	175x195	0.08	± 0.3	≤ 3
LG20001	20000	0.1	175x195	0.1	± 0.4	≤ 4

A Top Quality series of Precision Balances that combine elegance with highly reliable measuring performance. Double case structure, ergonomic keypad. LG 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

Accessories

- Serial Printer TLP-50, with date/time (C054)
- Serial Printer DPP-250 (AC007)
- Portable rechargeable battery pack (AC015)
- Alphanumeric external keyboard (AC005)
- Serial to USB converter (E1002)
- Serial cable for serial output to printer or PC (E743)
- Calibration certificate (BL0333)

Technical data

- 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

MARK S - Resolution 0,001g

A fusion of design and quality, balances series S 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)

Accessories

- BEL Tablet System for balances. USB version (BL0329) or BLUETOOTH version (BL0330)
- Bluetooth printer DPP-250-BT for BEL Tablet system (AC013)
- Serial Printer TLP-50, with date/time (C054)
- Serial Printer DPP-250 (AC007)
- Density KIT for solids and liquids (AC002)
- Density KIT for solids (AC001)
- Alphanumeric external keyboard (AC005)
- Serial to USB converter (E1002)
- Serial cable for serial output to printer or PC (E743)
- Calibration certificate (BL0333)

Technical data

- 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

























Model	Capacity	Resolution	Pan	Repeatibility	Linearity	time
	(g)	(g)	(mm)	(g)	(g)	(sec.)
		_		_		

External calibration

S123	120	0.001	Ø 80	0.0008	± 0.003	≤ 3
S203	210	0.001	Ø 80	0,001	± 0.003	≤ 3
S303	310	0.001	Ø 80	0,001	± 0.003	≤ 3
S303D	150/310	0.001/0.01	Ø 80	0,001/0,008	± 0.003/± 0.02	≤ 3
S423	420	0.001	Ø 80	0,001	± 0.004	≤ 3







Model



Capacity

(g)





Resolution

(g)













Repeatibility (g)	Linearity (g)	Response time (sec.)
_		

External calibration

(mm)

S622	620	0.01	Ø 130	0.01	± 0.02	≤ 2
S1002	1000	0.01	Ø 130	0.01	± 0.02	≤ 2
S1202	1200	0.01	Ø 130	0.01	± 0.02	≤ 2
S1502	1500	0.01	Ø 130	0.01	± 0.02	≤ 2
S2202	2200	0.01	Ø 130	0.01	± 0.03	≤ 3
S3102	3100	0.01	Ø 130	0.01	± 0.03	≤ 3
S4202	4200	0.01	Ø 130	0.01	± 0.04	≤ 3

A fusion of design and quality, balances series S 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 functions

Paper Grammage Function (T219)

Accessories

- BEL Tablet System for balances. USB version (BL0329) or BLUETOOTH version (BL0330)
- Bluetooth printer DPP-250-BT for BEL Tablet system (AC013)
- Serial Printer TLP-50, with date/time (C054)
- Serial Printer DPP-250 (AC007)
- Density KIT for solids and liquids (AC002)
- Density KIT for solids (AC001)
- Alphanumeric external keyboard (AC005)
- Serial to USB converter (E1002)
- Serial cable for serial output to printer or PC (E743)
- Calibration certificate (BL0333)

Technical data

- 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

MARK S - Resolution 0,1g

A fusion of design and quality, balances series S 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

Accessories

- BEL Tablet System for balances. USB version (BL0329) or BLUETOOTH version (BL0330)
- Bluetooth printer DPP-250-BT for BEL Tablet system (AC013)
- Serial Printer TLP-50, with date/time (C054)
- Serial Printer DPP-250 (AC007)
- Alphanumeric external keyboard (AC005)
- Serial to USB converter (E1002)
- Serial cable for serial output to printer or PC (E743)
- Calibration certificate (BL0333)

Technical data

- 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



























Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatibility (g)	Linearity (g)	Response time (sec.)

External calibration

S3201	3200	0.1	150x140	0.05	± 0.2	≤ 2
S5201	5200	0.1	150x140	0.05	± 0.2	≤ 2
S6501	6500	0.1	150x140	0.05	± 0.2	≤ 2

MARK ES - Resolution 0,01g-0,1g

























Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatibility (g)	Linearity (g)	Response time (sec.)
				_	_	

External calibration

ES202	200	0.01	Ø 110	0.01	± 0.02	≤ 2
ES422	420	0.01	Ø 110	0.01	± 0.02	≤ 2
ES1001	1000	0.1	150x140	0.1	± 0.2	≤ 2
ES1501	1500	0.1	150x140	0.1	± 0.2	≤ 2
ES2201	2200	0.1	150x140	0.1	± 0.3	≤ 2

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
- Small footprint, portable
- External calibration
- LCD with backlight with adjustable contrast
- Operates also with AA batteries (not included)
- Under hook weighing
- Plastic protection cover

Accessories

- Rechargeable battery, type AA (E803) (balances ES require five)
- Calibration certificate (BL0333)

Technical data

- 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

MARK KL - Resolution 0,1g-0,2g-0,5g-1g

Robustness, reliability and a high level of performance are enclosed inside KL 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

Accessories

- BEL Tablet System for balances. USB version (BL0329) or BLUETOOTH version
- Bluetooth printer DPP-250-BT for BEL Tablet system (AC013)
- Serial Printer TLP-50, with date/time (C054)
- Serial Printer DPP-250 (AC007)
- Portable rechargeable battery pack (AC015)
- Alphanumeric external keyboard (AC005)
- Serial to USB converter (E1002)
- Serial cable for serial output to printer or PC (E743)
- Calibration certificate (BL0333)

Technical data

- 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



























Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatibility (g)	Linearity (g)	Response time (sec.)

External calibration

KL8001	8000	0.1	210x320	0.05	± 0.2	≤ 3
KL10001	10000	0.1	210x320	0.05	± 0.3	≤ 3
KL12001	12000	0.1	210x320	0.05	± 0.3	≤ 3
KL16001	16000	0.1	210x320	0.05	± 0.3	≤ 3
KL20001	20000	0.1	210x320	0.1	± 0.3	≤ 4
KL32001	32000	0.1	210x320	0.1	± 0.4	≤ 4
KL32001.2	32000	0.2	210x320	0.1	± 0.4	≤ 3
KL32001.5	32000	0.5	210x320	0.05	± 0.2	≤ 3
KL15000	15000	1	210x320	0.1	± 1	≤ 3
KL20000	20000	1	210x320	0.1	± 1	≤ 3
KL32000	32000	1	210x320	0.1	± 1	≤ 3
KL16001D	4500/16000	0.1/1	210x320	0.05/0.5	±0.2/± 1	≤ 3
KL20001D	4500/20000	0.1/1	210x320	0.05/0.5	±0.2/± 1	≤ 3
KL32001D	4500/32000	0.1/1	210x320	0.05/0.5	±0.2/± 1	≤ 3

MARK i-Thermo - Res. 0,0001g-0,001g-0,01g













Model	Capacity (g)	Resolution (g)	Pan (mm)	Repeatibility (g)	Linearity (g)	Precision (2g)	Response time (sec.)
				_			

External calibration

i-Thermo A64M	60	0.0001	100mm Samples Pan	0,0001	± 0.0003	0,18%	≤ 3
i-Thermo 163M	160	0.001	100mm Samples Pan	0,001	± 0.003	0,18%	≤ 3
i-Thermo 163L	160	0.001	100mm Samples Pan	0,001	± 0.003	0,20%	≤ 3
i-Thermo 62L	60	0.01	100mm Samples Pan	0,01	± 0.03	0,50%	≤ 3

i-Thermo 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

Accessories

- Thermometer calibration KIT (STCi-02)
- BEL Tablet System for balances. USB version (BL0329) or BLUETOOTH version (BL0330). (1)
- Bluetooth printer DPP-250-BT for BEL Tablet system (AC013)
- Serial Printer TLP-50, with date/time (C054)
- Serial Printer DPP-250 (AC007)
- Alphanumeric external keyboard (AC005)
- Serial to USB converter (E1002)
- Serial cable for output to printer/PC (E743)
- TEST pans (Ø 100mm x 0.5mm) (A753)
- Calibration certificate (BL0333)

Technical data

- Span drift (+ 10...+ 30 °C): +/- 3ppm/°C [i-Thermo A64M]; +/- 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 [i-Thermo A64M] ;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)

i-Thermo touch - Res. 0,001g

Moisture balance with large touch screen visor. Easy access and intuitive with fast programming of drying cycles. In laboratory and in quality check lines: more efficiency, productivity, interactivity with the

A double case structure protects the heart of the balance: an aluminum inner case and a composite plastic external case. Possibility of calibrating the internal thermometer (via optional kit). Operating system Windows CE™.

Features

- High resolution Load cell weighing sys-
- Halogen-infrared lamp
- External calibration
- Touch screen Large Display LCD 5.7", 640x480 pixels
- Temperature range: 35-160°C/1°C
- Temperature profiles (standard, rapid, mild, steps)
- Operating modes: Manual, Time (1-99min), Autostop%, Absolute Autostop.
- Results mode: %M (moisture), %R (dry residue), %A (atro), Weight.
- Drying resolution: 0,01%
- Real time graph of drying process under process
- RS232 serial Interface, USB
- Plastic protection cover

Accessories

- Thermometer Calibration kit (STCi-02)
- Serial Printer TLP-50, with date/time (C054)
- Serial Printer DPP-250 (AC007)
- Serial to USB converter (E1002)
- Serial cable for serial output to printer or PC (E743)
- TEST pans (80 pcs), diam.100mm, thickness 0.5mm (A753)
- Calibration certificate (BL0333)

Technical data

- Span drift (+ 10...+ 30 °C): +/- 4ppm/°C
- Balance Dimensions LxWxH (mm): 345x215x235
- Visor Dimensions (mm): 160x200x90h
- Maximum dimension of container on the pan: 100mm (diameter) x 25mm
- Power supply 110-230Vac, 50/60Hz; output 5Vdc 4A 25W
- Heater: 230V AC 50/60Hz, 400Watt
- Balance net weight: 4,7Kg; Visor net weight: 0,68 Kg







Model



Capacity





Resolution

(g)



Pan

(mm)





Repeatibility

(g)



Linearity

(g)



•	•	•		•
			External c	alibration

i-Thermo touch 163L	160	0.001	100mm samples pan	0.001	± 0.003	0,20%	≤ 3
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Serial printer DPP-250 and DPP-250-BT

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

Code: AC007 (cable version)

Code: AC013 (BLUETOOTH version)

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

- Input: 9/12V Output: 5V 2100mA x 2 USB and 1xDC 9V/12V 2000mA
- Long lasting Battery Li-lon
- 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

Code: AC015

Density KIT for solids and liquids:

- 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

Codes: AC001, AC002, AC003, AC004

Serial printer TLP-50

- Line thermal dot printing
- printing widht: 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

Code: C054

Alphanumeric external keyboard model KEYMODULE

- RS232 connection
- keyboard for inserting alphanumeric values
- TARE function button
- Button for inserting manual pre-tare value
- Dimensions: 115x210x35h mm
- Weight: 250g

Code: AC005



BEL Engineering® s.r.l. is an Italian company manufacturer of Electronic Precision Balances and laboratory scientific instruments, with headquarters in Monza (Milano), ITALY.

The company was born at the beginning of the '80s, taking care from the very beginning to its own production through a deep scientific and technological research. Each step of the production process (mechanics, electronics, software, design) is completely followed, ensuring a full quality check on each part related to the electronic balance and to other products.

The experience acquired in more than 30 years and the direct design of our products ensures to BEL Engineering srl to be strongly innovative and to be able to give an accurate and quick service thanks to a qualified and skilled personell. Thanks to all this and to a refined italian style,

each product of Bel Engineering combines Quality, Design and Performance.

BEL Photonics® is a division of BEL Engineering® s.r.l. concerned with Optical instruments design and Optical Microscopy. Bel Photonics leads the field of Optical Microscopy with a innovative range of video Microscopes, biological, stereo, inverted microscopes and high-resolution cameras for Microscopy.

BEL Engineering Quality System is certified ISO9001:2008, certificate 39000071401. Production Quality is CE-NAWI certified (directive 2009/23/CEE), certificate CE-205.





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