VWR® for weighing
Lighten the weighing load

01. GENERAL INFORMATION
02. BALANCES
03. MOISTURE BALANCES
04. ACCESSORIES
05. CALIBRATION WEIGHTS
06. CONSUMABLES



VWR COLLECTION

Introduction

We hope that you enjoy this guide for weighing. Not only can you find a large selection of balances, from semi-micro to high capacity and all accessories you need, it also contains information to guide you through the choice of the balance, the correct calibration weights you should use, the different kinds of certification available and more…

VWR® offers you:

- **Choice** - enough to cover almost every application packed into a series of models without being too overwhelming
- **Performance** - market-leading consistency and reliability backed up with warranties that run for many years
- **Quality and features to fit your application**

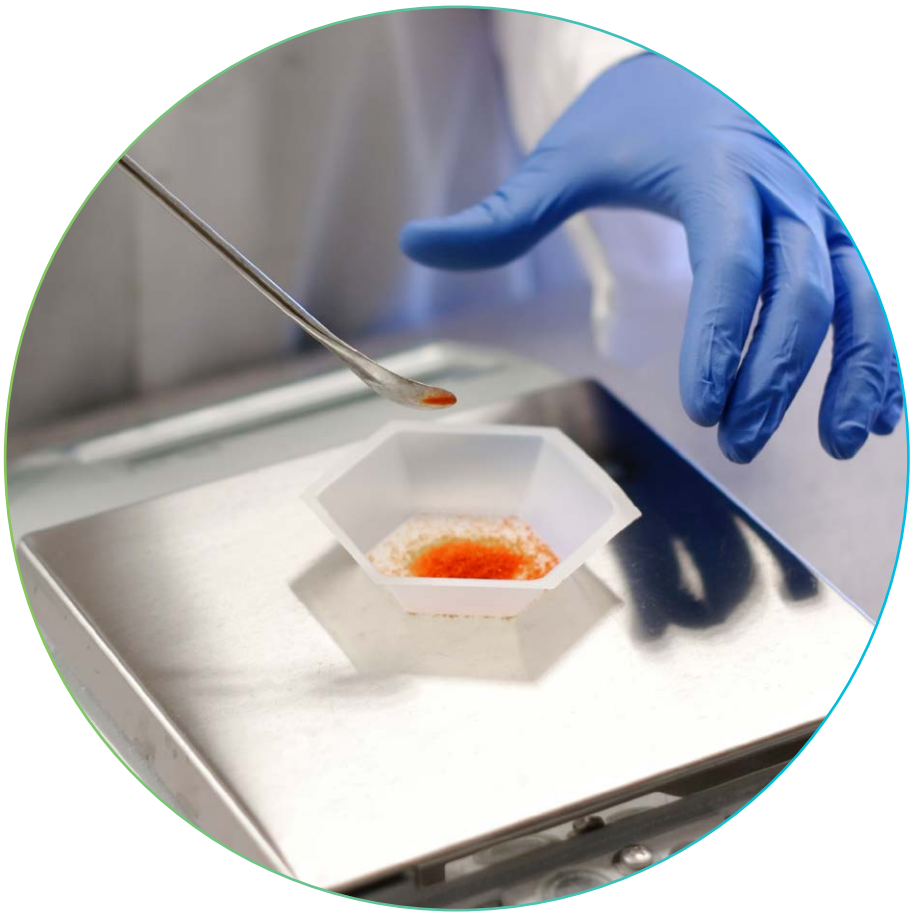


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General information

Different types of balances



Semi-micro balances

- Readability d:
  - 0,01 mg = 10 µg
  - 5 digits 0,00001 g
- Weighing range from 42 to 220 g



Analytical balances

- Readability d:
  - 0,1 mg = 100 µg
  - 4 digits 0,0001 g
- Weighing range from 120 to 610 g



Precision balances

- Readability d:
  - From 1 to 100 mg
  - From 3 digits 0,001 g to 1 digit 0,1 g
- Weighing range from 210 to 20 000 g or 20 kg



Industrial high capacity balances

- Readability d:
  - 0,1 g
  - 0,5 g
  - 1 g
- Weighing range from 16 to 32 kg



Spatula balance

- Readability d: 0,1 g
- Weighing range: 300 g



Moisture balances

- Readability d:
  - From 0,1 to 10 mg
  - From 0,001to 0,1%
- Weighing range from 60 to 160 g

Different level of balance

1. Classic models with LCD display
2. Advanced models with graphic display
3. Professional models with touch screen display
4. Educational balances
5. Spatula balance





Classic LCD

- Back light with adjustable contrast
- Ergonomic keypad

Technical specifications and available applications:

- Depending on the weighing range and accuracy, some balances have a load cell, and some have electromagnetic force restoration
- Statistic printouts are only available in connection with a statistical printer
- Some balances can work with an external battery pack (see accessories for more info)
- Under balance weighing hooks are available for several models



Advanced with large graphic display

- Allows efficient, easy operation
- Multi-language: EN-DE-FR-IT-ES-PT
- GLP/ISO record keeping of weight values with date, time and serial number
- Ergonomic keypad
- Easy reading

Technical specifications and available applications:

- Depending on the weighing range and accuracy, some balances have a load cell, and some have electromagnetic force restoration
- Statistic printouts are only available in connection with a statistical printer
- Some balances can work with an external battery pack (see accessories for more info)
- Under balance weighing hook is available for several models



Explanation of icons: See pages 10-11



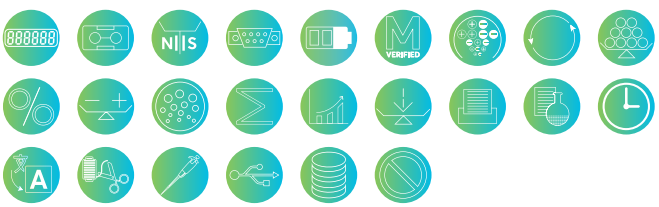


Professional with 5" touch screen

- Easy, intuitive access to all the advanced functions thanks to the icon-driven menu
- More efficiency, productivity and interactivity
- Internal database
- GLP
- Multi-language: EN-DE-FR-IT-SP-PT
- Multi-user (password protection)
- Main functions page for easy working
- Easy selection and application of density function
- Live colour indication for check weighing
- Qwerty touch keypad for easy input
- Main page with easy access to the menus

Technical specifications and available applications

- Depending on the weighing range and accuracy, some balances have a load cell, and some have electromagnetic force restoration
- Some balances can work with an external battery pack (see accessories for more info)
- Pipette check can only be done with selected models, as suggested in the directive for pipette calibration (semi-micro – analytical – 1 mg)



Explanation of icons: See pages 10-11

Educational balances

- Competitively priced electronic balances for the education sector
- All models have a stainless-steel top pan
- LCD display
- Statistic printouts are only available in connection with a statistical printer
- RS232, under balance weighing, totalisation and density and statistical are not available for some models

Technical specifications and available applications

- Depending on the weighing range and accuracy, some balances have a load cell, and some have electromagnetic force restoration
- Some balances can work with an external battery pack (see accessories for more info)
- Pipette check can only be done with selected models, as suggested in the directive for pipette calibration (semi-micro – analytical – 1 mg)



Spatula balance

- Digital LCD with an easy grip handle and low battery indicator



Factory calibration certificate

VWR® balances that are delivered with a factory calibration certificate are denoted with a '-C' in the product name. It contains the results of a linearity, repeatability and eccentricity test, and states that the balance was controlled and within the specs of the balance. It is not enough if you need an officially approved balance. (see further). balance TA214I-C 220 g/0,1 mg certificate

VWR®

PRECISION BALANCE - FACTORY CALIBRATION CERTIFICATE

	Begin	End
Rel. Humidity [%]	50	50
Temp [°C]	23,5	23,4

Date: 29/10/2019

Balance model: 611-3681
S/N: ITA1904419

Max1 (g) : 220
d1 (g) : 0,0001

if double range
Max2 (g) :
d2 (g) :

1. Linearity Test

Test weight (g)	Result (g) up	Result (g) down
0	0,0000	0,0000
50	49,9999	49,9998
100	100,0001	100,0001
150	150,0002	150,0002
220	220,0002	220,0002

Manufacturer specification (g): ± 0,0003

X PASSED

2. Repeatability Test

Test Weight (g): **200**

Num.	Result (g)	Zero indication (g)
1	200,0000	0,0000
2	200,0000	0,0000
3	200,0001	0,0001
4	199,9999	0,0000
5	199,9999	-0,0001
6	200,0000	0,0000
7	200,0001	0,0001
8	200,0001	0,0001
9	200,0001	0,0000
10	200,0000	0,0000

Repeatability is expressed as the standard deviation from 10 weighing cycles.

Manufacturer specification (g): 0,0001

Repeatability (std. deviation) RESULT (g): **0,0001**

X PASSED

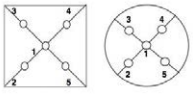
3. Eccentricity Test

Test Weight (g): **100**

Manufacturer specification (g): ± **0,0003**

Position on the pan	Results (g)
1	100,0000
2	99,9999
3	100,0001
4	100,0002
5	99,9999

X PASSED



Operator:

Signature:

Balance calibration and balance service with ISO 17025 accreditation

Brand independent balance calibration and preventative maintenance

According the different guidelines, regulations and quality systems a laboratory balance should be checked and calibrated regularly. VWR offers you a dedicated balance calibration and balance service for this. Independent on brand or model we can offer you calibration and preventative maintenance. Also, for most brands we are able to solve breakdown repairs by our certified technicians. We can offer our calibration service for a very attractive price as we are able to combine all brands and all models, or even combine it with our pipette calibration service.

Our highly experienced team of technicians are trained on servicing the following brands: Mettler, Sartorius, Ohaus, Kern, Acculab and others.

Your advantages by using our balance service

- Traceability to (inter-) national standard
- Validated calibration procedures
- Proven technical competence of certified technicians
- Due time reminder system, which protects your due times
- Traceable calibration certificate
- Known measurement uncertainty
- Genuine spare parts



Metrology and balances: approved or verified models

Legal metrology was established in order to ensure public faith in commercial transactions, with the main purpose of guaranteeing the safety and quality of measurements made for contract or for lawful prescriptions. According to EU directive 2009/23/EC a verified balance, or a balance with an EC-type approval certificate i.e. conforms to legal metrology, must be used in all the following situations:

- Determination of mass for the calculation of a toll, tariff, tax, bonus, penalty, remuneration and compensation
- Determination of mass for the application of laws or regulations; expert judicial
- Determination of mass in a medical context for weighing patients for reasons of control, diagnosis and treatment, determination of mass for the manufacture of medicines on prescription in a pharmacy and determination of mass in analyses carried out in medical and pharmaceutical laboratories
- Pricing based on the mass for direct sales to the public and the making of pre-packages

This documented qualification of the instrument guarantees operations conform to legal metrology requirements and to quality assessment systems.

You can recognise approved VWR balances with the extension '-M' in the name: For example: 611-3261: Analytical balance LA 124I-M. These balances are supplied with a declaration of conformity to EU standards.

EU DECLARATION OF CONFORMITY
DICHIARAZIONE DI CONFORMITA' UE

EN We hereby declare that this Declaration of Conformity is issued under our sole responsibility and belongs to the following precision balance:
IT Noi dichiariamo che la presente Dichiarazione di Conformità è rilasciata sotto la nostra esclusiva responsabilità e si riferisce alla seguente bilancia di precisione:

Manufacturer: **Produttore:**			
Apparatus: **Apparato:**	Non-Automatic Weighing Instrument		
Balance model: **Modello Bilancia:**	M214Ai-M	**Serial number:** **Numero seriale:**	ITA1904454
Max$_1$:	220g	**Max$_2$** :	
Min :	0,01g		-
e$_1$:	0,001g	**e$_2$** :	
Class: **Classe:**	I	**Type:** **Tipo:**	Mnn4Ai-M

EN The designated product complies with the European directives listed hereinafter:
IT Il prodotto in oggetto è conforme alle direttive Europee citate qui di seguito:

European Directive **Direttiva Europea**	**Standard** **Standard**	**Type Certificate*** **Certificato Tipo***
2014/31/EU (NAWI) **	EN 45501:2015	0200-NAWI-03799
2014/30/EU (EMC)	EN 61326-1:2013	
2014/35/EU (LVD)	EN 61010-1:2010 ; EN 61010-2-010:2014	
2011/65/EU (RoHS)	EN 50581:2012	

* issued by FORCE Certification (0200) / emesso da FORCE Certification (0200)

** **EN** The notified body NMI Certin BV (0122) performed module D audit for NAWI directive and issued the certificate CE-205 for BEL Engineering
** **IT** L'organismo notificato NMI Certin BV (0122) ha effettuato l'audit modulo D per la direttiva NAWI ed emesso il certificato CE-205 per BEL Engineering

Verification officer: / Responsabile della Verifica: _____

Authorized by Management: / Autorizzato dalla Direzione: _____

Company stamp: / Timbro:

Date: / Data:

Place: / Luogo :

QP-1002 Declaration of conformity_rev_5 12/03/2018 Pag 1/1

Automatic internal calibration

IncaL+ - for models with suffix I

- Balance will calibrate using the internal weight by pressing CAL button
- Balance will automatically recalibrate after 90 minutes of use. For touch screen models this value can also be changed by the user in the balance menu, to make it more frequent, up to 30 minutes or to make it longer, for example, several hours

Calibration won't start if the user is currently weighing.

There will be a countdown shown on the display to alert the user that an automatic calibration is going to be performed. The user can also skip the calibration during this countdown by pressing a button.

- Balance will automatically recalibrate when ambient temperature changes
- Temperature changes affect the accuracy of the result. Artificial intelligence of the balance evaluates when the temperature change is starting to affect the result and will perform an automatic calibration

Calibration is not performed if the user is weighing or using a balance function. There will be a countdown shown on display to alert the user that an automatic calibration is going to be performed. The user can also skip the calibration during this countdown by pressing a button.

- The user can choose to calibrate the balance with an external weight



Explanation of the icon applications



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



Animal weighing: Accurate readings under unstable conditions such as moving laboratory animals.



Check weighing: Upper and lower limits can be set individually, for dosing and portioning.



Database: Internal database to store data and drying methods.



Date and time: Balance shows current date and time.



Density determination: Function accurately determines density of a solid object or liquid.



Drying modes for moisture analysers: Different temperature profiles are available for drying processes.



Electromagnetic force restoration: Coil in a permanent magnet for the most accurate weighing.



Formulation: Allows you to set recipes with names and tolerances for each ingredient. Automatic reproportioning.



GLP set up: Allows you to store identification data of balance, project and user. Date and time.



Live graph of humidity changes and test results.



Classic LCD display.



Large graphic display allows efficient and easy operation.



High resolution load cell.



Complies with the European Directive 2014-31-EU (NAWI) and Harmonised Standard EN 45501 (verified, approved).



Ioniser: Integrated ioniser on the back of the balance.



Maximum load (peak hold) function: Retains the peak value in a series of consecutive weights.



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



Memory for moisture analysers: It is possible to store up to 5 different drying programs.



Multi-language: Several languages can be selected from the balance menu.



Passwords: User profile can be password protected.



Percentage weighing: Function calculates the weight of a sample as a percentage from a reference weight (100%).



Piece counting: Function to count identical items, reference quantities are selectable.



Pipette check function: Allows you to easily check the tolerances of pipettes in the laboratory following ISO 8655 directive procedures, or lets you define a standard operating procedure.



RS232 data interface: Connects the balance to a printer, PC or peripheral device.



Statistics function: Shows minimum, maximum, sum, average and standard deviation.



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



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



Totalisation function: Measures cumulative weight of multiple items. Shows total and current weight.



Touch screen display: User friendly technology, easy to use and intuitive.



USB interface: Possibility to connect a USB drive.

Semi-micro balances

Three levels of semi-micro balances, with resolution of 0,01 mg, are equipped with a new highly integrated electromagnetic cell. All models feature automatic internal calibration and are characterised by a high level of precision and repeatability. These VWR semi-micro balances provide an excellent price/performance ratio, thanks to continuous intensive research and study of how weighing works. All models have a stainless-steel top pan.

- Integrated weighing sensor for enhanced stability and quick response time
- Selectable filter levels and selectable measuring units
- Automatic internal calibration and RS232 connection as standard



Automatic internal calibration « IncaL+ » for models with suffix I

- Balance will calibrate using the internal weight by pressing the CAL button
- Balance will automatically recalibrate when ambient temperature changes and/or after a certain time has passed (IncaL+)
- Extra on Professional touch screen balances: user can set the time of automatic calibration
- The user can choose to calibrate the balance with an external weight

Certifications: EN 61326-1:2013, EN 61010-1: 2010, EN 61010-2-010:2014, EN 50581:2012

Delivery information: Supplied with mains adapter and universal plug suitable for use in EU and UK and plastic in use protective cover. Optional accessories include density determination kit and serial printer.

Caution:

- Models with suffix D have dual range
- Models with suffix I have internal calibration
- Models with suffix ION have a built-in ioniser
- Models with suffix -C are delivered with factory calibration certificate
- Models with suffix -M are approved or verified models
- Models with suffix -P are complete with trap kit for pipette calibration

SEMI-MICRO BALANCES, CLASSIC WITH LCD DISPLAY: SM SERIES

- Back light with adjustable contrast
- Ergonomic keypad

Technical specifications and available applications:

Depending on the weighing range and accuracy, some balances have a load cell, and some have electromagnetic force restoration.

Statistic printouts are only available in connection with a statistical printer.

Some balances can work with an external battery pack. (see accessories for more info)

Under balance weighing hooks are available for several models.



Semi-micro balances with internal calibration

Model	Weighing capacity (g)	Readability (mg)	Pan/platform size	Cat. No.
SM1265DI	62/120	0,01/0,1	Ø 80 mm	**611-3534**
SM2285DI	82/220	0,01/0,1	Ø 80 mm	**611-3537**
SM425i	42	0,01	Ø 80 mm	**611-3547**

Semi-micro balances with internal calibration and ioniser

Model	Weighing capacity (g)	Readability (mg)	Pan/platform size	Cat. No.
SM1265DI-ION	62/120	0,01/0,1	Ø 80 mm	**611-3800**
SM2285DI-ION	82/220	0,01/0,1	Ø 80 mm	**611-3801**
SM625I-ION	62	0,01	Ø 80 mm	**611-4284**

Semi-micro balances with internal calibration and factory calibration certificate

Model	Weighing capacity (g)	Readability (mg)	Pan/platform size	Cat. No.
SM1265DI-C	62/120	0,01/0,1	Ø 80 mm	**611-3539**
SM2285DI-C	82/220	0,01/0,1	Ø 80 mm	**611-3542**
SM425i-C	42	0,01	Ø 80 mm	**611-3549**

Semi-micro balances with internal calibration and ioniser plus factory calibration certificate

Model	Weighing capacity (g)	Readability (mg)	Pan/platform size	Cat. No.
SM1265Di-ION-C	62/120	0,01/0,1	Ø 80 mm	**611-3803**
SM2285Di-ION-C	82/220	0,01/0,1	Ø 80 mm	**611-3804**
SM625I-ION-C	62	0,01	Ø 80 mm	**611-4294**

Explanation of icons: See pages 10-11

SEMI-MICRO BALANCES, ADVANCED WITH GRAPHIC DISPLAY: SMG SERIES

- Allows efficient, easy operation
- Multi-language: EN-DE-FR-IT-ES-PT
- GLP/ISO record keeping of weight values with date, time and serial number
- Ergonomic keypad
- Easy reading



Technical specifications and available applications:

Statistic printouts are only available in connection with a statistical printer.

Some balances can work with an external battery pack. (see accessories for more info)

Under balance weighing hook is available for several models.



Model	Weighing capacity (g)	Readability (mg)	Pan/platform size	Cat. No.
SMG425I	42	0,01	Ø 80 mm	**611-3551**
SMG1265DI	62/120	0,01/0,1	Ø 80 mm	**611-3554**
SMG2285DI	82/220	0,01/0,1	Ø 80 mm	**611-3557**
SMG1265DI-ION	62/120	0,01/0,1	Ø 80 mm	**611-3806**
SMG2285DI-ION	82/220	0,01/0,1	Ø 80 mm	**611-3807**
SMG625I-ION	62	0,01	Ø 80 mm	**611-4314**

With factory calibration certificate

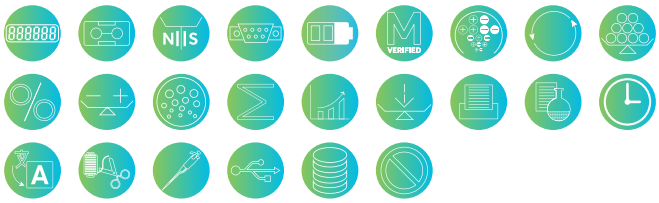
Model	Weighing capacity (g)	Readability (mg)	Pan/platform size	Cat. No.
SMG1265DI-C	62/120	0,01/0,1	Ø 80 mm	**611-3561**
SMG2285DI-C	82/220	0,01/0,1	Ø 80 mm	**611-3564**
SMG425I-C	42	0,01	Ø 80 mm	**611-3558**
SMG1265DI-ION-C	62/120	0,01/0,1	Ø 80 mm	**611-3809**
SMG2285DI-ION-C	82/220	0,01/0,1	Ø 80 mm	**611-3810**
SMG625I-ION -C	62	0,01	Ø 80 mm	**611-4315**

Explanation of icons: See pages 10-11

SEMI-MICRO BALANCES PROFESSIONAL WITH 5" TOUCH SCREEN: TS SERIES

- Easy, intuitive access to all the advanced functions thanks to the icon-driven menu
- More efficiency, productivity and interactivity
- Internal database
- GLP
- Multi-language: EN-DE-FR-IT-SP-PT
- Multi-user (password protection) (up to 10)
- Main functions page for easy working
- Easy selection and application of density function
- Live colour indication for check weighing
- Qwerty touch keypad for easy input
- Main page with easy access to the menus





Technical specifications and available applications:

Some balances can work with an external battery pack. (see accessories for more info).

Pipette check can only be done with selected models, as suggested in the directive for pipette calibration (semi-micro – analytical – 1 mg). See further.

Model	Weighing capacity (g)	Readability (mg)	Pan/platform size	Cat. No.
TS425I	42	0,01	Ø 80 mm	**611-3663**
TS1245DI	62/120	0,01/0,1	Ø 80 mm	**611-3664**
TS2285DI	82/220	0,01/0,1	Ø 80 mm	**611-3666**
TS2215DI	102/220	0,01/0,1	Ø 80 mm	**611-3667**

With built-in ioniser

Model	Weighing capacity (g)	Readability (mg)	Pan/platform size	Cat. No.
TS1265DI-ION	62/120	0,01/0,1	Ø 80 mm	**611-3811**
TS2285Di-ION	82/220	0,01	Ø 80 mm	**611-3812**

With factory calibration certificate

Model	Weighing capacity (g)	Readability (mg)	Pan/platform size	Cat. No.
TS425I-C	42	0,01	Ø 80 mm	**611-3668**
TS1245DI-C	62/120	0,01/0,1	Ø 80 mm	**611-3669**
TS2285DI-C	82/220	0,01/0,1	Ø 80 mm	**611-3671**
TS2215DI-C	102/220	0,01/0,1	Ø 80 mm	**611-3672**

With factory calibration certificate and built-in ioniser

Model	Weighing capacity (g)	Readability (mg)	Pan/platform size	Cat. No.
TS1265DI-ION-C	62/120	0,01/0,1	Ø 80 mm	**611-3813**
TS2285Di-ION-C	82/220	0,01	Ø 80 mm	**611-3814**

Balances for pipette calibration (suffix C: With factory calibration certificate)
A pipette trap kit, to prevent evaporation, is included with the balance.

Model	Weighing capacity (g)	Readability (mg)	Pan/platform size	Cat. No.
TS105I-P	102	0,01	Ø 80 mm	**611-4673**
TS105I-PC	102	0,01	Ø 80 mm	**611-4674**

Explanation of icons: See pages 10-11

IONISERS

IONISER, FOR NEUTRALISING ELECTROSTATIC BUILD-UP IN WEIGHING SAMPLES, ION-15A

The ioniser is used to remove static electricity that accumulates in many kinds of samples that are being weighed, like plastic samples (and containers) or films. Using the ioniser the weighing sample is neutralised in seconds.

- Distance from sample to ion source approx - 50 to 400 mm
- Discharge time with fan turned on: 9 seconds at 50 mm, 13 seconds at 100 mm and approx 100 seconds at 400 mm
- For indoor use only



Ioniser

Ozone concentration: 0 ~ 0,05 ppm (2 cm from ion source)

Maximum air volume: 0,06 cm3/min

Ambient operating conditions: 0...50 °C; 20 - 80% RH; altitude <2000 m

Rated electrical power supply: 12 V DC, 500 mA, AC adapter (primary) AC 100 - 240 V, 50/60 Hz

Pollution degree: 2

Over-voltage category: Category II

Description	W×D×H (mm)	Pk	Cat. No.
ION-15A, ioniser for removing static build-up of weighing samples	110×105×45	1	**611-3446**

Accessories for VWR semi-micro, analytical or precision balances





YOU OWN:



VWR LABORATORY BALANCE WITH DRAFT SHIELD (LCD, GRAPHIC, TOUCH SCREEN)

YOU BUY:



PANEL WITH IONISER (611-3864)

YOU GET:



UPGRADED LABORATORY BALANCE WITH AN EMBEDDED IONISER

Analytical balances

Three levels of economical range of reliable, high performance analytical balances.

All models have a stainless-steel top pan and a weighing chamber L×W×H: 162×171×225 mm

Automatic internal calibration « IncaL+ » for models with suffix I

- Balance will calibrate using the internal weight by pressing CAL button
- Balance will automatically recalibrate when ambient temperature changes and/or after a certain time has passed (IncaL+)
- Extra on Professional touch screen balances: user can set the time of automatic calibration
- The user can choose to calibrate the balance with an external weight

Certifications: EN 61326-1:2013, EN 61010-1: 2010, EN 61010-2-010:2014, EN 50581:2012

Delivery information: Supplied with mains adapter, universal plug and plastic in use protective cover. Calibration weights are available from VWR. Please see 'Calibration weights'.

- Models with suffix D have dual range
- Models with suffix I have internal calibration
- Models with suffix -C are delivered with factory calibration certificate
- Models with suffix -M are approved or verified models
- Models with suffix -P are complete with trap kit for pipette calibration

Models can be upgraded with a built-in ioniser





ANALYTICAL BALANCES, CLASSIC WITH LCD DISPLAY: LA SERIES

- Back light with adjustable contrast
- Ergonomic keypad

Technical specifications and available applications

Statistic printouts are only available in connection with a statistical printer.

Some balances can work with an external battery pack. (see accessories for more info)

Under balance weighing hooks are available for several models.





Balances with automatic internal calibration

Model	Weighing capacity (g)	Readability (mg)	Pan/platform size	Cat. No.
LA124I	120	0,1	Ø 80 mm	**611-2261**
LA214I	220	0,1	Ø 80 mm	**611-2263**
LA254I	250	0,1	Ø 80 mm	**611-2264**
LA314I	310	0,1	Ø 80 mm	**611-2265**

Balances with automatic internal calibration, with EC type approval certificates

Model	Weighing capacity (g)	Readability (mg)	Pan/platform size	Cat. No.
LA124I-M	120	0,1	Ø 80 mm	**611-3261**
LA214I-M	220	0,1	Ø 80 mm	**611-3263**
LA254I-M	250	0,1	Ø 80 mm	**611-3264**
LA214I-M-C	310	0,1	Ø 80 mm	**611-3326**

Balances with automatic internal calibration and factory calibration certificate

Model	Weighing capacity (g)	Readability (mg)	Pan/platform size	Cat. No.
LA124I-C	120	0,1	Ø 80 mm	**611-3343**
LA214I-C	220	0,1	Ø 80 mm	**611-3546**
LA254I-C	250	0,1	Ø 80 mm	**611-3351**
LA314I-C	310	0,1	Ø 80 mm	**611-3350**

Balances with external calibration

Model	Weighing capacity (g)	Readability (mg)	Pan/platform size	Cat. No.
LA124	120	0,1	Ø 80 mm	**611-2258**
LA214	220	0,1	Ø 80 mm	**611-2260**

Balances with external calibration and factory calibration certificate

Model	Weighing capacity (g)	Readability (mg)	Pan/platform size	Cat. No.
LA124-C	220	0,1	Ø 80 mm	**611-3328**
LA214-C	120	0,1	Ø 80 mm	**611-3123**

Explanation of icons: See pages 10-11

ANALYTICAL BALANCES, ADVANCED WITH GRAPHIC DISPLAY: LAG SERIES

- Allows efficient, easy operation
- Multi-language: EN-DE-FR-IT-ES-PT
- GLP/ISO record keeping of weight values with date, time and serial number
- Ergonomic keypad
- Easy reading



Technical specifications and available applications

Statistic printouts are only available in connection with a statistical printer.

Some balances can work with an external battery pack. (see accessories for more info)

Under balance weighing hook is available for several models.



Balances with automatic internal calibration

Model	Weighing capacity (g)	Readability (mg)	Pan/platform size	Cat. No.
LAG214I	220	0,1	Ø 80 mm	**611-2269**
LAG314I	310	0,1	Ø 80 mm	**611-2271**
LAG414I	410	0,1	Ø 80 mm	**611-3280**
LAG514I	510	0,1	Ø 80 mm	**611-3282**
LAG614I	610	0,1	Ø 80 mm	**611-3457**

Balances with automatic internal calibration, with EC type approval certificates

Model	Weighing capacity (g)	Readability (mg)	Pan/platform size	Cat. No.
LAG214I-M	220	0,1	Ø 80 mm	**611-3267**
LAG254I-M	250	0,1	Ø 80 mm	**611-3268**

Balances with automatic internal calibration and factory calibration certificate

Model	Weighing capacity (g)	Readability (mg)	Pan/platform size	Cat. No.
LAG 214I-C	220	0,1	Ø 80 mm	**611-3376**
LAG314I-C	310	0,1	Ø 80 mm	**611-3297**
LAG414I-C	410	0,1	Ø 80 mm	**611-3449**
LAG514I-C	510	0,1	Ø 80 mm	**611-3451**
LAG614I-C	610	0,1	Ø 80 mm	**611-4302**

Explanation of icons: See pages 10-11

ANALYTICAL BALANCES, PROFESSIONAL WITH TOUCH SCREEN, TA SERIES

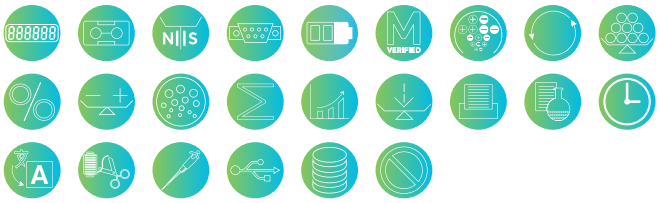
- Easy, intuitive access to all the advanced functions thanks to the icon-driven menu
- More efficiency, productivity and interactivity
- Internal database
- GLP
- Multi-language: EN-DE-FR-IT-SP-PT
- Multi-user (password protection)
- Main functions page for easy working
- Easy selection and application of density function
- Live colour indication for check weighing
- Qwerty touch keypad for easy input
- Main page with easy access to the menus



Technical specifications and available applications

Some balances can work with an external battery pack. (see accessories for more info).

Pipette check can only be done with selected models, as suggested in the directive for pipette calibration (semi-micro – analytical – 1 mg).



Balances with automatic internal calibration

Model	Weighing capacity (g)	Readability (mg)	Pan/platform size	Cat. No.
TA214I	220	0,1	Ø 80 mm	**611-3674**
TA314I	310	0,1	Ø 80 mm	**611-3676**
TA414I	410	0,1	Ø 80 mm	**611-3677**
TA614I	610	0,1	Ø 80 mm	**611-3679**

Balances with automatic internal calibration and ioniser

Model	Weighing capacity (g)	Readability (mg)	Pan/platform size	Cat. No.
TA214I-ION	220	0,1	Ø 80 mm	**611-3828**
TA414I-ION	410	0,1	Ø 80 mm	**611-3829**

Balances with automatic internal calibration and factory calibration certificate

Model	Weighing capacity (g)	Readability (mg)	Pan/platform size	Cat. No.
TA214I-C	220	0,1	Ø 80 mm	**611-3681**
TA314I-C	310	0,1	Ø 80 mm	**611-3683**
TA414I-C	410	0,1	Ø 80 mm	**611-3684**
TA614I-C	610	0,1	Ø 80 mm	**611-3686**

Balances with automatic internal calibration, ioniser and factory calibration certificate

Model	Weighing capacity (g)	Readability (mg)	Pan/platform size	Cat. No.
TA214I-ION-C	220	0,1	Ø 80 mm	**611-3830**
TA414I-ION-C	410	0,1	Ø 80 mm	**611-3831**

Balances for pipette calibration (suffix C: with factory calibration certificate
A pipette trap kit, to prevent evaporations, is included with the balance.

Model	Weighing capacity (g)	Readability (mg)	Pan/platform size	Cat. No.
TA314I-P	310	0,1	Ø 80 mm	**611-4675**
TA314I-PC	310	0,1	Ø 80 mm	**611-4676**

Explanation of icons: See pages 10-11

Precision balances

Three levels of rugged, economical, balances that are ideal for laboratory use, with selectable filter levels and measuring units.

Automatic internal calibration « IncaL+ » for models with suffix I

- Balance will calibrate using the internal weight by pressing the CAL button
- Balance will automatically recalibrate when ambient temperature changes and/or after a certain time has passed (IncaL+)
- Extra on Professional touch screen balances: user can set the time of automatic calibration
- The user can choose to calibrate the balance with an external weight

Certifications: EN 61326-1:2013, EN 61010-1: 2010, EN 61010-2-010:2014, EN 50581:201**2**

Ordering information: For details of the full range of accessories including printer, software, external keypad and PC connection cable please visit vwr.com or contact your local VWR sales office.

- Models with suffix D have dual range
- Models with suffix I have internal calibration
- Models with suffix -C are delivered with factory calibration certificate
- Models with suffix -M are approved or verified models
- Models with suffix C have a circular draught shield
- Models with suffix W have a three door draught shield
- Models with suffix -P are complete with trap kit for pipette calibration

Delivery information: Supplied with plastic in use protective cover.







PRECISION BALANCES, CLASSIC WITH LCD DISPLAY: LP SERIES

- Back light with adjustable contrast
- Ergonomic keypad

Technical specifications and available applications

Depending on the weighing range and accuracy, some balances have a load cell, and some have electromagnetic force restoration.

Statistic printouts are only available in connection with a statistical printer.

Some balances can work with an external battery pack. (see accessories for more info)

Under balance weighing hooks are available for several models.

LPW: LCD display and three door draught shield



LPW: LCD display and three door draught shield



Balances with automatic internal calibration

Model	Weighing capacity (g)	Readability (g)	Pan/platform size	Cat. No.
LPW213I	210	0,001	Ø 110 mm	**611-2296**
LPW303I	310	0,001	Ø 110 mm	**611-4316**
LPW423I	420	0,001	Ø 110 mm	**611-4317**
LPW503I	520	0,001	Ø 110 mm	**611-2278**
LPW723I	720	0,001	Ø 110 mm	**611-2279**
LPW2103I	2100	0,001	Ø 110 mm	**611-3283**

Balances with automatic internal calibration, with EC type approval certificates

Model	Weighing capacity (g)	Readability (g)	Pan/platform size	Cat. No.
LPW523I-M	520	0,001	Ø 110 mm	**611-3271**
LPW723I-M	720	0,001	Ø 110 mm	**611-3272**

Balances with automatic internal calibration and factory calibration certificate

Model	Weighing capacity (g)	Readability (g)	Pan/platform size	Cat. No.
LPW213I-C	210	0,001	Ø 110 mm	**611-3346**
LPW503I-C	520	0,001	Ø 110 mm	**611-3298**
LPW723I-C	720	0,001	Ø 110 mm	**611-3354**
LPW-2103I-C	2100	0,001	Ø 110 mm	**611-3327**

Balances with external calibration

Model	Weighing capacity (g)	Readability (g)	Pan/platform size	Cat. No.
LPW213	210	0,001	Ø 110 mm	**611-2610**

Balances with external calibration and factory calibration certificate

Model	Weighing capacity (g)	Readability (g)	Pan/platform size	Cat. No.
LPW213-C	210	0,001	Ø 110 mm	**611-3367**

Explanation of icons: See pages 10-11

LPC: LCD display and circular draught shield

- Ø×H: 150×70 mm for pan Ø 110 mm
- Ø×H: 133×70 mm for pan Ø 80



LPC: LCD display and circular draught shield



Balances with automatic internal calibration

Model	Weighing capacity (g)	Readability (g)	Pan/platform size	Cat. No.
LPC503I	520	0,001	Ø 110 mm	**611-2274**
LPC723I	720	0,001	Ø 110 mm	**611-2275**
LPC1203I	1200	0,001	Ø 110 mm	**611-3458**

Balances with automatic internal calibration, with EC type approval certificates

Model	Weighing capacity (g)	Readability (g)	Pan/platform size	Cat. No.
LPC523I-M	520	0,001	Ø 110 mm	**611-3269**
LPC723I-M	720	0,001	Ø 110 mm	**611-3270**

Balances with automatic internal calibration and factory calibration certificate

Model	Weighing capacity (g)	Readability (g)	Pan/platform size	Cat. No.
LPC313I-C	310	0,001	Ø 80 mm	**611-3825**
LPC503I-C	520	0,001	Ø 110 mm	**611-3371**
LPC723I-C	720	0,001	Ø 110 mm	**611-3373**

Balances with external calibration

Model	Weighing capacity (g)	Readability (g)	Pan/platform size	Cat. No.
LPC203	210	0,001	Ø 80 mm	**611-2600**
LPC503	520	0,001	Ø 110 mm	**611-2272**

Balances with external calibration and factory calibration certificate

Model	Weighing capacity (g)	Readability (g)	Pan/platform size	Cat. No.
LPC203-C	210	0,001	Ø 80 mm	**611-3355**
LPC303-C	310	0,001	Ø 80 mm	**611-3823**
LPC503-C	520	0,001	Ø 110 mm	**611-3395**

Explanation of icons: See pages 10-11

LP: LCD display without draught shield



Balances with automatic internal calibration

Model	Weighing capacity (g)	Readability (g)	Pan/platform size	Cat. No.
LP1002I	1000	0,01	Ø 160 mm	**611-2629**
LP2102I	2200	0,01	Ø 160 mm	**611-2302**
LP4202I	4200	0,01	Ø 160 mm	**611-2289**
LP6202I	6200	0,01	Ø 160 mm	**611-3472**

Balances with automatic internal calibration, with EC type approval certificates

Model	Weighing capacity (g)	Readability (g)	Pan/platform size	Cat. No.
LP4102I-M	4200	0,01	Ø 160 mm	**611-3277**
LP6202I-M	6200	0,01	Ø 160 mm	**611-3296**

Balances with automatic internal calibration and factory calibration certificate

Model	Weighing capacity (g)	Readability (g)	Pan/platform size	Cat. No.
LP1002I-C	1000	0,01	Ø 160 mm	**611-3398**
LP2102I-C	2200	0,01	Ø 160 mm	**611-3347**
LP4202I-C	4100	0,01	Ø 160 mm	**611-3348**
LP4202I-C	4200	0,01	Ø 160 mm	**611-3397**
LP6202I-C	6200	0,01	Ø 160 mm	**611-4330**
LP8202I-C	8200	0,01	Ø 160 mm	**611-4338**

Balances with external calibration

Model	Weighing capacity (g)	Readability (g)	Pan/platform size	Cat. No.
LP1002	1000	0,01	Ø 160 mm	**611-2298**
LP2102	2200	0,01	Ø 160 mm	**611-2300**
LP3102	3100	0,01	Ø 160 mm	**611-2301**
LP4202	4200	0,01	Ø 160 mm	**611-2319**
LP8202	8200	0,01	Ø 160 mm	**611-3469**
LP6501	6500	0,1	195×175 mm	**611-2308**
LP16001	16 000	0,1	195×175 mm	**611-2320**
LP20001	20 000	0,1	195×175 mm	**611-2321**

Balances with external calibration and factory calibration certificate

Model	Weighing capacity (g)	Readability (g)	Pan/platform size	Cat. No.
LP1002-C	1000	0,01	Ø 160 mm	**611-3379**
LP2102-C	2200	0,01	Ø 160 mm	**611-3374**
LP3102-C	3200	0,01	Ø 160 mm	**611-3360**
LP4202-C	4200	0,01	Ø 160 mm	**611-3359**
LP5202-C	5200	0,01	Ø 160 mm	**611-3816**
LP6501-C	6500	0,1	195×175 mm	**611-3361**
LP16001-C	16 000	0,1	195×175 mm	**611-3375**
LP20001-C	20 000	0,1	195×175 mm	**611-3383**

PRECISION BALANCES, ADVANCED WITH GRAPHIC DISPLAY: LPG SERIES

- Allows efficient, easy operation
- Multi-language: EN-DE-FR-IT-ES-PT
- GLP/ISO record keeping of weight values with date, time and serial number
- Ergonomic keypad
- Easy reading



Technical specifications and available applications

Depending on the weighing range and accuracy, some balances have a load cell, and some have electromagnetic force restoration.

Statistic printouts are only available in connection with a statistical printer.

Some balances can work with an external battery pack. (see accessories for more info)

Under balance weighing hook is available for several models.



LPWG: graphical display and three door draught shield



Balances with automatic internal calibration

Model	Weighing capacity (g)	Readability (g)	Pan/platform size	Cat. No.
LPWG203I	210	0,001	Ø 110 mm	**611-2297**
LPWG303I	310	0,001	Ø 110 mm	**611-4344**
LPWG423I	420	0,001	Ø 110 mm	**611-4346**
LPWG723I	720	0,001	Ø 110 mm	**611-2287**
LPWG1203I	1200	0,001	Ø 110 mm	**611-3460**
LPWG-2103I	2100	0,001	Ø 110 mm	**611-3284**

Balances with automatic internal calibration, with EC type approval certificates

Model	Weighing capacity (g)	Readability (g)	Pan/platform size	Cat. No.
LPWG523I-M	520	0,001	Ø 110 mm	**611-3275**
LPWG723I-M	720	0,001	Ø 110 mm	**611-3276**

Balances with automatic internal calibration and factory calibration certificate

Model	Weighing capacity (g)	Readability (g)	Pan/platform size	Cat. No.
LPWG203I-C	210	0,001	Ø 110 mm	**611-3381**
LPWG303I-C	310	0,001	Ø 110 mm	**611-4345**
LPWG423I-C	420	0,001	Ø 110 mm	**611-4347**
LPWG723I-C	720	0,001	Ø 110 mm	**611-3358**

Balances with automatic external calibration

Model	Weighing capacity (g)	Readability (g)	Pan/platform size	Cat. No.
LPWG723	720	0,001	Ø 110 mm	**611-2285**

Balances with automatic external calibration and factory calibration certificate

Model	Weighing capacity (g)	Readability (g)	Pan/platform size	Cat. No.
LPWG723-C	720	0,001	Ø 110 mm	**611-3832**

Explanation of icons: See pages 10-11

LPCG: Graphical display and circular draught shield

Circular draught shield: Ø×H: 150×70 mm for pan Ø 110 mm



Balances with automatic internal calibration

Model	Weighing capacity (g)	Readability (g)	Pan/platform size	Cat. No.
LPCG -723I	720	0,001	Ø 110 mm	**611-2283**

Balances with automatic internal calibration, with EC type approval certificates

Model	Weighing capacity (g)	Readability (g)	Pan/platform size	Cat. No.
LPCG523I-M	520	0,001	Ø 110 mm	**611-3273**
LPCG723I-M	720	0,001	Ø 110 mm	**611-3274**

Balances with automatic internal calibration and factory calibration certificate

Model	Weighing capacity (g)	Readability (g)	Pan/platform size	Cat. No.
LPCG723i-C	720	0,001	Ø 110 mm	**611-3366**

LPG: Graphical display



Balances with automatic internal calibration

Model	Weighing capacity (g)	Readability (g)	Pan/platform size	Cat. No.
LPG2102I	2200	0,01	Ø 160 mm	**611-2307**
LPG4202I	4200	0,01	Ø 160 mm	**611-2291**
LPG6202I	6200	0,01	Ø 160 mm	**611-3474**

Balances with automatic internal calibration, with EC type approval certificates

Model	Weighing capacity (g)	Readability (g)	Pan/platform size	Cat. No.
LPG4102I-M	4200	0.01	Ø 160 mm	**611-3278**

Balances with automatic internal calibration and factory calibration certificate

Model	Weighing capacity (g)	Readability (g)	Pan/platform size	Cat. No.
LPG2202I-C	2200	0,01	Ø 160 mm	**611-4318**
LPG402I-C	4100	0,01	Ø 160 mm	**611-3365**
LPG6202I-C	6200	0,01	Ø 160 mm	**611-3833**

Balances with external calibration

Model	Weighing capacity (g)	Readability (g)	Pan/platform size	Cat. No.
LPG3102	3100	0,01	Ø 160 mm	**611-2306**
LPG8202	8200	0,01	Ø 160 mm	**611-3470**
LPG6501	6500	0,1	175×195 mm	**611-2310**
LPG16001	16000	0,1	175×195 mm	**611-2372**
LPG20001	20000	0,1	175×195 mm	**611-2373**

Balances with external calibration and factory calibration certificate

Model	Weighing capacity (g)	Readability (g)	Pan/platform size	Cat. No.
LPG3102-C	3100	0,01	Ø 160 mm	**611-3393**
LPG6501-C	6500	0,1	175×195 mm	**611-3390**
LPG16001-C	16000	0,1	175×195 mm	**611-4348**
LPG20001-C	20000	0,1	175×195 mm	**611-4329**

PRECISION BALANCES, PROFESSIONAL WITH TOUCH SCREEN: TP SERIES

- Easy, intuitive access to all the advanced functions thanks to the icon-driven menu
- More efficiency, productivity and interactivity
- Internal database
- GLP
- Multi-language: EN-DE-FR-IT-SP-PT
- Multi-user (password protection)
- Main functions page for easy working
- Easy selection and application of density function
- Live colour indication for check weighing
- Qwerty touch keypad for easy input
- Main page with easy access to the menus

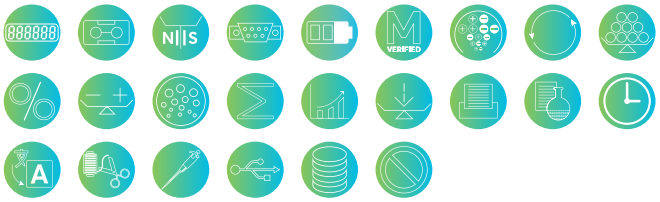


Technical specifications and available applications

Depending on the weighing range and accuracy, some balances have a load cell, and some have electromagnetic force restoration.

Some balances can work with an external battery pack. (see accessories for more info).

Pipette check can only be done with selected models, as suggested in the directive for pipette calibration (semi-micro – analytical – 1 mg).



Explanation of icons: See pages 10-11

TPW: Touch screen with three door draught shield



Balances with automatic internal calibration

Model	Weighing capacity (g)	Readability (g)	Pan/platform size	Cat. No.
TPW 313I	310	0,001	Ø 110 mm	**611-3688**
TPW 523I	520	0,001	Ø 110 mm	**611-3689**
TPW 723I	720	0,001	Ø 110 mm	**611-3690**
TPW1203I	1200	0,001	Ø 110 mm	**611-3857**
TPW2103I	2100	0,001	Ø 110 mm	**611-3858**

Balances with automatic internal calibration and factory calibration certificate

Model	Weighing capacity (g)	Readability (g)	Pan/platform size	Cat. No.
TPW 313I-C	310	0,001	Ø 110 mm	**611-3692**
TPW 523I-C	520	0,001	Ø 110 mm	**611-3693**
TPW723I-C	720	0,001	Ø 110 mm	**611-3694**
TPW1203I-C	1200	0,001	Ø 110 mm	**611-3861**
TPW2103I-C	2100	0,001	Ø 110 mm	**611-3862**

Balances for pipette calibration (suffix C: with factory calibration certificate)

A pipette trap kit, to prevent evaporations, is included with the balance.

Model	Weighing capacity (g)	Readability (mg)	Pan/platform size	Cat. No.
TPW 723I-P	720	0,001	Ø 110 mm	**611-4677**
TPW 723I-PC	720	0,001	Ø 110 mm	**611-4678**

TP: Touch screen



Balances with automatic internal calibration

Model	Weighing capacity (g)	Readability (g)	Pan/platform size	Cat. No.
TP 6202I	6200	0,01	Ø 160 mm	**611-3697**

Balances with automatic internal calibration and factory calibration certificate

Model	Weighing capacity (g)	Readability (g)	Pan/platform size	Cat. No.
TP6202I-C	6200	0,01	Ø 160 mm	**611-3700**

Balances with external calibration

Model	Weighing capacity (g)	Readability (g)	Pan/platform size	Cat. No.
TP1002	1000	0,01	Ø 160 mm	**611-3826**
TP2102	2200	0,01	Ø 160 mm	**611-3695**
TP4202	4200	0,01	Ø 160 mm	**611-3696**
TP8202	8200	0,01	Ø 160 mm	**611-3859**
TP6501	6500	0,1	195×175 mm	**611-3701**
TP16001	16000	0,1	195×175 mm	**611-4339**
TP20001	20000	0,1	195×175 mm	**611-3703**

Balances with external calibration and factory calibration certificate

Model	Weighing capacity (g)	Readability (g)	Pan/platform size	Cat. No.
TP1002-C	1000	0,01	Ø 160 mm	**611-3827**
TP2102-C	2200	0,01	Ø 160 mm	**611-3698**
TP4202-C	4200	0,01	Ø 160 mm	**611-3699**
TP8202-C	8200	0,01	Ø 160 mm	**611-3863**
TP6501-C	6500	0,1	195×175 mm	**611-3704**
TP 16001-C	16000	0,1	195×175 mm	**611-4340**
TP20001-C	20000	0,1	195×175 mm	**611-3706**

PRECISION BALANCES SCIENCE EDUCATION SE SERIES

- Competitively priced electronic balances for the education sector
- All models have a stainless-steel top pan
- LCD display
- Statistic printouts are only available in connection with a statistical printer
- RS232, under balance weighing, totalisation and density and statistical is not available for some models











SEC: LCD display and circular draught shield

Balances with external calibration

Model	Weighing capacity (g)	Readability (g)	Pan/platform size	Cat. No.
SEC123	120	0,001	Ø 80 mm	**611-2312**
SEC213	210	0,001	Ø 80 mm	**611-2313**
SEC313	310	0,001	Ø 80 mm	**611-2314**
SEC423	420	0,001	Ø 80 mm	**611-3468**

Balances with external calibration and factory calibration certificate

Model	Weighing capacity (g)	Readability (g)	Pan/platform size	Cat. No.
SEC123-C	120	0,001	Ø 80 mm	**611-3364**
SEC213-C	210	0,001	Ø 80 mm	**611-3357**
SEC313-C	310	0,001	Ø 80 mm	**611-3352**
SEC523-C	520	0,001	Ø 80 mm	**611-3713**

SE: LCD display, without draught shield

Balances with external calibration

Model	Weighing capacity (g)	Readability (g)	Pan/platform size	Cat. No.
SE622	620	0,01	Ø 130 mm	**611-2602**
SE1202	1200	0,01	Ø 130 mm	**611-2604**
SE1502	1500	0,01	Ø 130 mm	**611-2315**
SE3102	3100	0,01	Ø 130 mm	**611-2316**
SE4202P	4200	0,01	Ø 130 mm	**611-3476**

Balances with external calibration and factory calibration certificate

Model	Weighing capacity (g)	Readability (g)	Pan/platform size	Cat. No.
SE622-C	620	0,01	Ø 130 mm	**611-3260**
SE1502-C	1500	0,01	Ø 130 mm	**611-3349**
SE3102-C	3100	0,01	Ø 130 mm	**611-3363**

Explanation of icons: See pages 10-11



SEB: Economic, LCD display, no RS232 interface, basic applications

Balances with external calibration

Model	Weighing capacity (g)	Readability (g)	Pan/platform size	Cat. No.
SEB422	420	0,01	Ø 110 mm	**611-3299**
SEB2201	2200	0,1	150×140 mm	**611-2607**

Balances with external calibration and factory calibration certificate

Model	Weighing capacity (g)	Readability (g)	Pan/platform size	Cat. No.
SEB422-C	420	0,01	Ø 110 mm	**611-3860**
SEB2201-C	2200	0,1	150×140 mm	**611-3236**

Avantor Services

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Equipment Services

Our equipment services optimise your uptime, ensuring your equipment is fully compliant and performing to specifications. We offer:

- Multi-vendor technical services
  - Installation
  - Repairs
  - Relocation
  - Calibration
  - Validation
  - Preventive maintenance
  - Warranty
- Asset management



PB19033-EN

High capacity balances

The IS range of high capacity balances are robust, reliable and ensure high performance. Models are equipped with either a backlit LCD display with adjustable contrast, a large graphic display or a large 5" colour touch screen, the balances have been designed to deliver top performance at competitive prices.

- Electromagnetic force restoration weighing system (for 0,01 g resolution)
- High readability load cell weighing system (for 0,1 g resolution)
- Solidly built with an ergonomic keypad
- External calibration
- Measuring units are selectable and customisable
- Hook for below balance weighing can be used for weighing large samples or solid density determination (software included)
- Multi-languages English, German, French, Italian, Spanish and Portuguese (apart from models with LCD display)



Delivery information: Supplied with protective plastic cover

HIGH CAPACITY BALANCES, CLASSIC WITH LCD DISPLAY: IS SERIES

- Back light with adjustable contrast
- Ergonomic keypad



Technical specifications and available applications

Depending on the weighing range and accuracy, some balances have a load cell, and some have electromagnetic force restoration.

Statistic printouts are only available in connection with a statistical printer.



Balances with external calibration

Model	Weighing capacity (kg)	Readability (g)	Pan/platform size	Cat. No.
IS16001	16	0,1	320×320 mm	**611-4520**
IS32001	32	0,1	320×320 mm	**611-4528**
IS32001.5	32	0,5	320×320 mm	**611-4529**
IS32001D	4.5/32	0,1/1	320×320 mm	**611-4530**

Balances with external calibration and factory calibration certificate

Model	Weighing capacity (kg)	Readability (g)	Pan/platform size	Cat. No.
IS16001-C	16	0,1	320×320 mm	**611-4546**
IS32001-C	32	0,1	320×320 mm	**611-4547**
IS32001.5-C	32	0,5	320×320 mm	**611-4548**
IS32001D-C	4.5/32	0,1/1	320×320 mm	**611-4549**

Explanation of icons: See pages 10-11

HIGH CAPACITY BALANCES, ADVANCED WITH LARGE GRAPHIC DISPLAY: ISG SERIES

- Allows efficient, easy operation
- Multi-language: EN-DE-FR-IT-ES-PT
- GLP/ISO record keeping of weight values with date, time and serial number
- Ergonomic keypad
- Easy reading

Technical specifications and available applications

Depending on the weighing range and accuracy, some balances have a load cell, and some have electromagnetic force restoration.

Statistic printouts are only available in connection with a statistical printer.





Balances with external calibration

Model	Weighing capacity (kg)	Readability (g)	Pan/platform size	Cat. No.
ISG32001D	4.5/32	0,1/1	320×320 mm	**611-4538**
ISG16001	16	0,1	320×320 mm	**611-4536**
ISG32001	32	0,1	320×320 mm	**611-4537**

Balances with external calibration and factory calibration certificate

Model	Weighing capacity (kg)	Readability (g)	Pan/platform size	Cat. No.
ISG32001D-C	4.5/32	0,1/1	320×320 mm	**611-4557**
ISG16001-C	16	0,1	320×320 mm	**611-4550**
ISG32001-C	32	0,1	320×320 mm	**611-4556**

Explanation of icons: See pages 10-11

HIGH CAPACITY BALANCES, PROFESSIONAL WITH TOUCH SCREEN: TIS SERIES

- Easy, intuitive access to all the advanced functions thanks to the icon-driven menu
- More efficiency, productivity and interactivity
- Internal database
- GLP
- Multi-language: EN-DE-FR-IT-SP-PT
- Multi-user (password protection)
- Main functions page for easy working
- Easy selection and application of density function
- Live colour indication for check weighing
- Qwerty touch keypad for easy input
- Main page with easy access to the menus

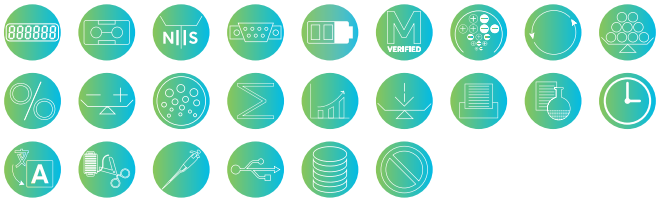
Technical specifications and available applications

Depending on the weighing range and accuracy, some balances have a load cell, and some have electromagnetic force restoration.

Some balances can work with an external battery pack. (see accessories for more info).

Pipette check can only be done with selected models, as suggested in the directive for pipette calibration (semi-micro – analytical – 1 mg).





Balances with external calibration

Model	Weighing capacity (kg)	Readability (g)	Pan/platform size	Cat. No.
TIS16001	16	0,1	320×320 mm	**611-4539**
TIS32001	32	0,1	320×320 mm	**611-4540**

Balances with external calibration and factory calibration certificate

Model	Weighing capacity (kg)	Readability (g)	Pan/platform size	Cat. No.
TIS16001-C	16	0,1	320×320 mm	**611-4558**
TIS32001-C	32	0,1	320×320 mm	**611-4559**

Pipette calibration balances, professional series

Pipetting accuracy is critical for successful experiments: a small inaccuracy in pipetting can result in important variations in results. The pipette check function of these touch screen balances allows the user to check if the pipette is still accurate, as per directive ISO 8655 'Piston-operated volumetric apparatus - Gravimetric methods for the determination of measurement error' and customisable methods.

- Balances can be used for standard weighing operations as well as pipette checking
- Built-in software guides the user in selecting which volume to check, number of samples to weigh
- User is taken through steps required to complete the test in accordance with their selected method
- On completion a detailed report is created with an overall performance result of the pipette check and a pass/fail message

Pipettes must undergo regular checks (frequency is determined by the laboratory based on the type of work carried out and the acceptable level of risk) and must be periodically calibrated. Smaller volume pipettes require higher resolution balances such as the semi-micro balance, larger volume pipettes can be checked on lower resolution balances.

If the results show the pipette being tested is not compliant with ISO 8655, then the pipette must not be used and/or must be sent to a calibration laboratory. The pipette-check function, in addition to checking pipettes that are used daily, can also be used as preventive maintenance to decrease risks and avoid costly and time-consuming corrective actions.

The pipette trap kit minimises the effect of liquid evaporation while checking pipette accuracy. Ideal for use with a semi micro balance when measuring low quantities for example the liquid from a micropipette.



Ordering information: Delivered with pipette trap kit. Optional air temperature, humidity and pressure sensors are available if required.

Model	Weighing capacity (g)	Readability (mg)	Pan/platform size	Cat. No.
TS105I-P	102	0,01	Ø 80 mm	**611-4673**
TA314I-P	310	0,1	Ø 80 mm	**611-4675**
TPW 723I-P	720	1	Ø 110 mm	**611-4677**

With factory calibration certificate

Model	Weighing capacity (g)	Readability (mg)	Pan/platform size	Cat. No.
TS105I-PC	102	0,01	Ø 80 mm	**611-4674**
TA314I-PC	310	0,1	Ø 80 mm	**611-4676**
TPW 723I-PC	720	1	Ø 100 mm	**611-4678**

Spatula balances

PORTABLE BALANCE, TRACEABLE® SPATULA BALANCE

A unique product that combines the simplicity of a spatula with a balance, to quickly and more accurately measure samples. Particularly useful in food and veterinary applications. Detachable, translucent scoop, graduated for liquid measurement, made of corrosion resistant ABS plastic, which is dishwasher safe for effortless cleaning.

- Digital LCD with an easy grip handle and low battery indicator
- 5 to 30 ml graduations on scoop in 5 ml increments
- Three-position soft touch keys for tare, freezing display and conversion from grams to ounces
- Accuracy ±0,2 g or 0,25% in the level position
- Traceable® certificate (indicates traceability to standards provided by NIST)

Spoon volume: 32 ml

W×D×H: 230×30×15 mm

Weight: 85 g

Supplied with Traceable® certificate and 2× AAA batteries



Model	Weighing capacity	Readability	Cat. No.
Spatula balance	0 - 300 g	0,1 g	**611-1565**
Replacement plastic scoop			**611-1876**

Avantor Services

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Accredited pipette calibration and repair service

Complete calibration and servicing solutions for single- and multi-channel (electronic) pipettes and steppers, under ISO 17025 accreditation.
In-house or on-site.



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PB20061-EN

Moisture balances

MOISTURE ANALYSERS CLASSIC WITH LCD DISPLAY: MB SERIES

Rugged compact instruments for moisture determination of raw materials and finished products in the food, cosmetics, dairy, pharmaceutical, chemical and ceramics industries.

- Choice of models to meet user-requirements of capacity and precision
- Halogen-infrared heat source
- Double-case design to protect the weighing unit from irradiated heat
- PT100 temperature sensor ensures process repeatability
- Time and date information is available with printed output

MB 64M features an electromagnetic force restoration weighing system with drying resolution.

MB 163L features a high resolution load cell weighing system with a drying resolution.

The internal thermometer can be calibrated using the optional calibration kit.



Model	MB 64M	MB 163L
Capacity	60 g	160 g
Moisture range	0 – 100 %	
Resolution	0,001 %	
Readability	0,1 mg / 0,001 %	1,0 mg / 0,01 %
Repeatability	Std. Dev. ±0,18 % (2 g sample)	Std. Dev. ±0,20 % (2 g sample)
Timer	1 – 99 minutes	
Temperature range	35…160 °C	
Program memory	5	
Heater type	Halogen-infrared lamp	
Pan size	Ø = 100 mm	
Endpoint/analysis mode	Manual, time, autostop %	
Display	Backlit LCD	
Displayed results	Moisture %, dry residual %, ATRO, temperature, remaining time (in time mode only)	
Data printed	Temperature, time, initial weight, final weight, moisture content (date and time if using 630-1485 printer)	
W×D×H	215×345×235 mm	
Weight	6,1 kg	4,7 kg

Description	Model	Pk	Cat. No.
Moisture analyser	MB 64M	1	**611-3233**
Moisture analyser with calibration certificate	MB 64M	1	**611-3293**
Moisture analyser	MB 163L	1	**611-2318**
Moisture analyser with calibration certificate	MB 163L	1	**611-3295**

Description	For	Pk	Cat. No.
Accessories			
Roll of paper	TLP-50 printer (630-1485)	1 Roll	**611-3662**
Paper roll for DPP-250 printer (611-2793), 1 roll		1	**611-2795**
Disposable glass fibre discs for sample dishes when analysing liquids and semi-solids		200	**611-3715**
Temperature calibration kit (for balances with serial numbers above IT14004360)		1	**611-3248**
Reusable sample test dishes		80	**611-2788**

Explanation of icons: See pages 10-11

MOISTURE ANALYSERS ADVANCED WITH GRAPHIC DISPLAY: MBG SERIES

Rugged compact moisture analysers with large backlit dot matrix graphic display for moisture determination of raw materials and finished products in the food, cosmetics, dairy, pharmaceutical, chemical agriculture, construction and ceramics industries.

- Choice of models to meet user-requirements of capacity and precision
- Halogen-infrared heat source
- Double-case design to protect the weighing unit from irradiated heat
- PT100 temperature sensor ensures process repeatability
- Time and date information is available with printed output
- Multi-language, customisable settings
- GLP/ISO record of last stored calibration data (can be viewed and printed)

MBG 64 M features an electromagnetic force restoration weighing system with drying resolution.

MBG 62 and **MBG 163L** feature a high resolution load cell weighing system with a drying resolution.

The display shows all the drying process parameters and all the results during drying. Units feature a convenient automatic start using the last drying program in memory with one button or by closing the heater. Choice of two heating modes: Standard or rapid. Heating parameters are easy to set up and advanced software enables intuitive guidance through the operating process.

The internal thermometer can be calibrated using the optional calibration kit.



Moisture analysers with graphic display, MBG series

Model	MBG 62	MBG 163L	MBG 64M	MBG 62	MBG 163L	MBG 64M
Capacity	60 g	160 g	60 g		160 g	60 g
Moisture range	0 – 100 %					
Readability	10 mg / 0,1 %	1,0 mg / 0,01 %	0,1 mg / 0,001 %	10 mg / 0,1 %	1,0 mg / 0,01 %	0,1 mg / 0,001 %
Repeatability	0,01 g	0,001 g	0,0001 g	0,01 g	0,001 g	0,0001 g
Timer	1 – 99 minutes					
Temperature range	35…160 °C					
Heater type	Halogen-infrared lamp					
Pan size	Ø = 100 mm					
Endpoint/ analysis mode	Manual, time, autostop %					
Display	Backlit graphic display					
Displayed results	Moisture %, dry residual %, ATRO, temperature, remaining time (in time mode only)					
Data printed	Temperature, time, initial weight, final weight, moisture content (date and time if using 630-1485 printer)					
W×D×H	215×345×235 mm					
Weight	4,7 kg		6,1 kg	4,7 kg		6,1 kg

Description	Model	Pk	Cat. No.
Models without factory calibration certificate			
MBG 62 moisture analyser	MBG 62	1	**611-4500**
MBG 163L moisture analyser	MBG 163L	1	**611-4490**
MBG 64M moisture analyser	MBG 64M	1	**611-4489**
Models with factory calibration certificate			
MBG 62 moisture analyser with calibration certificate	MBG 62	1	**611-4519**
MBG 163L moisture analyser with calibration certificate	MBG 163L	1	**611-4518**
MBG 64M moisture analyser with calibration certificate	MBG 64M	1	**611-4517**

Description	For	Pk	Cat. No.
Ioniser, for neutralising electrostatic build-up in weighing samples, ION-15A			
ION-15A, ioniser for removing static build-up of weighing samples		1	**611-3446**
Accessories			
Roll of paper	TLP-50 printer (630-1485)	1 Roll	**611-3662**
Disposable glass fibre discs for sample dishes when analysing liquids and semi-solids		200	**611-3715**
Temperature calibration kit (for balances with serial numbers above IT14004360)		1	**611-3248**
Reusable sample test dishes		80	**611-2788**

Explanation of icons: See pages 10-11

TOUCH SCREEN MOISTURE ANALYSERS: MBT SERIES

Rugged compact instruments for moisture determination of raw materials and finished products in the food, cosmetics, dairy, pharmaceutical, chemical and ceramics industries.

- Choice of models to meet user-requirements of capacity and precision
- Halogen-infrared heat source
- Double-case design to protect the weighing unit from irradiated heat
- PT100 temperature sensor ensures process repeatability
- Time and date information is available with printed output

MB 64M features an electromagnetic force restoration weighing system with drying resolution.

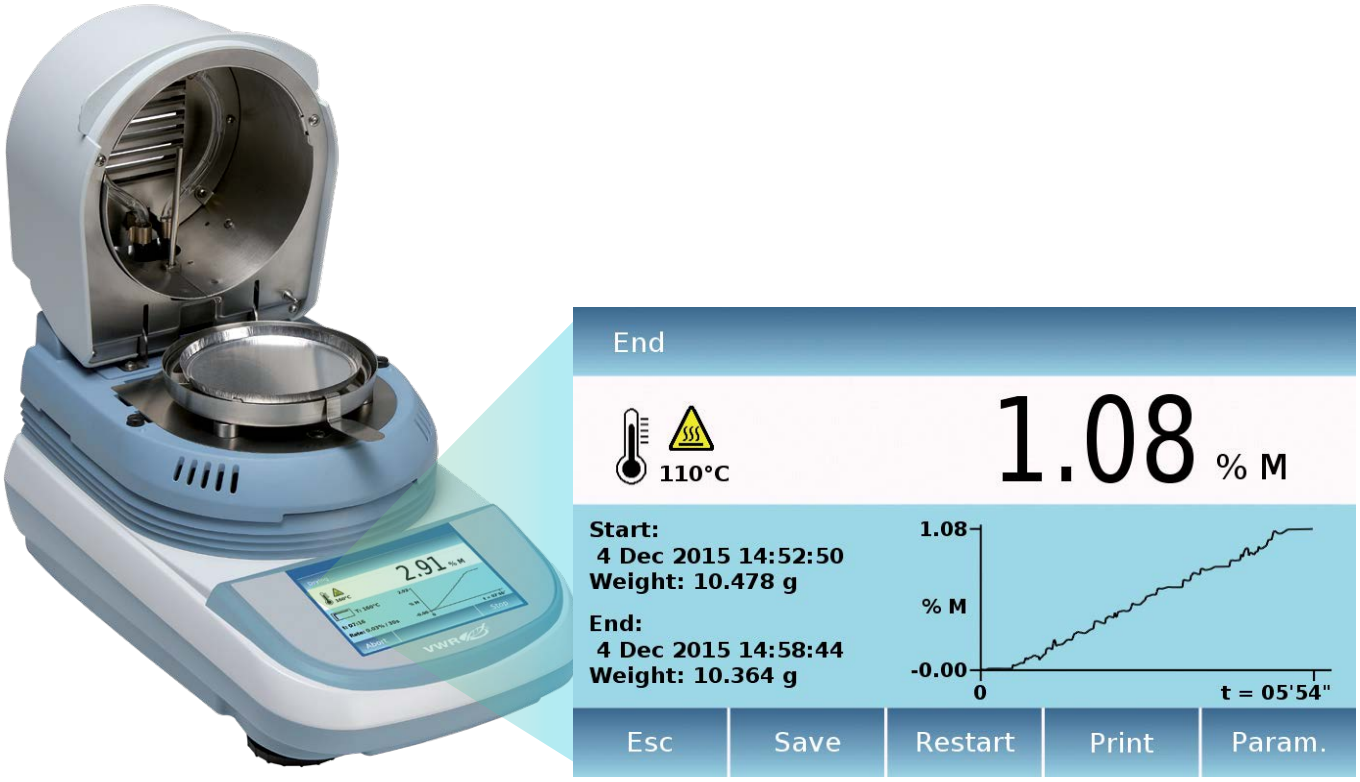
MB 163L features a high resolution load cell weighing system with a drying resolution.

The internal thermometer can be calibrated using the optional calibration kit.



Model	MBT 62L	MBT 62L-C	MBT 64M	MBT 64M-C	MBT 163L	MBT 163L-C	MBT 163M	MBT 163M-C
Capacity	60 g				160 g			
Moisture range	0 – 100%; 0,1%		0 – 100%; 0,001%		0 – 100%; 0,01%			
Resolution	0,01 g		0,0001 g		0,001 g			
Timer	1 – 99 min							
Temperature range	35…160 °C							
Program memory	300/user (max. 10 users)							
Heater type	Halogen infrared lamp							
Pan size	Ø 100 mm							
Endpoint/analysis mode	Drying modes: Time mode (1 - 99 min ; Automatic (%) or absolute automatic stop g); Manual							
Display	Touch screen TFT 5" (800×480)							
Displayed results	% humidity; % dry residue; % ATRO; weight (g)							
Drying programs	Standard - Fast - Slow - Ramped steps							
Data printed	Graph of drying cycle, product description, customisable heading, GLP data, balance and thermometer calibration data							
W×D×H	215×345×235 mm							
Weight	4,9 kg		6,1 kg		4,9 kg		6,1 kg	

Explanation of icons: See pages 10-11



Description	Model	Linearity (g)	Repeatability ()	Pk	Cat. No.
Moisture analyser	MBT 62L	±0,03	0,01 g	1	**611-3455**
Moisture analyser with calibration certificate	MBT 62L-C	±0,03	0,01 g	1	**611-3719**
Moisture analyser	MBT 64M	±0,0003	0,1 mg	1	**611-3452**
Moisture analyser with calibration certificate	MBT 64M-C	±0,0003	0,1 mg	1	**611-3716**
Moisture analyser	MBT 163L	±0,003	0,001 g	1	**611-3454**
Moisture analyser with calibration certificate	MBT 163L-C	±0,003	0,001 g	1	**611-3718**
Moisture analyser	MBT 163M	±0,003	0,001 g	1	**611-3453**
Moisture analyser with calibration certificate	MBT 163M-C	±0,003	0,001 g	1	**611-3717**

Description	For	Pk	Cat. No.
Accessories			
Roll of paper	TLP-50 printer (630-1485)	1 Roll	**611-3662**
Disposable glass fibre discs for sample dishes when analysing liquids and semi-solids		200	**611-3715**
Temperature calibration kit (for balances with serial numbers above IT14004360)		1	**611-3248**
Reusable sample test dishes		80	**611-2788**

Accessories for weighing applications





DENSITY KITS FOR VWR BALANCES

Complete kits that, together with the appropriate balance, allow the user to calculate the density of liquids (such as beverages) or non absorbent solids (rocks, polymers, gems, glass, metals etc). The density wizard function is already included as a built-in function of the balance (except for SE models: 611-2605,611-2606, 611-2607, 611-3236, 611-3246, 611-3299, 611-3344). Density kits are not designed for use with moisture analysers. Both kits contain similar items, the difference is the balance cone attachment:

- Measuring glass cup 150 mm high, Ø 50 mm, 250 ml
- Measuring glass cup 95 mm high, Ø 65 mm, 250 ml
- Thermometer
- Glass sinker
- Sample holder for floating/non floating samples
- Hanging arm for sample holder or sinker
- Sample holder/sinker support
- Measuring glass cup support

Density kit DT002 for VWR SM, SMG, LA, LAG, LP, LPG, LPW, LPWG, LPC, LPCG, SE or TS, TA, TP, TPW or TPC series of analytical balances with readability of 0,01; 0,1 or 1 mg.

Density kit DT004 for VWR LP, LPG, SE or TP and TP series precision balances with readability of 0,01 g

Description	Pk	Cat. No.
Density kit DT004 (solids and liquids) for VWR precision balances with readability 0,01 g	1 KIT	**611-2551**
Density kit DT002 (solids and liquids) for VWR balances with readability 0,001; 0,0001 or 0,00001 g (1; 0,1 or 0,01 mg)	1 KIT	**611-2553**

DENSITY MEASUREMENT SYSTEM, PORTABLE

A complete portable system for density measurements, comprising of a portable balance plus a density kit for solids and liquids with the required accessories, all presented in a customised carrying case.

- Precision balance
- Density kit for solids and liquids
- Calibration weight class F1 200 g
- Software installed on the balance for the automatic calibration of solids and liquids
- Density values are shown directly on the balance display

The LPC-313 portable balance has an internal rechargeable battery and round draught shield Ø 135 mm to fit the Ø 90 mm round pan.

Carrying case: W×D×H: 370×480×150 mm

Weight: 4,5 kg

System is supplied with a balance, round draught shield, calibration weight, graduated cylinder (250 ml), graduated beaker (250 ml), analogue thermometer, glass sinker, sample basket, suspension arm and supports in a carrying case.

Description	Weighing cap. (g)	Readability (g)	Pk	Cat. No.
Density measurement system	310	0,001	1 KIT	**611-3131**



WEIGHING TABLE, GRANITE, FOR MICRO AND ANALYTICAL BALANCES

High performance micro balances and analytical balances should be placed in an environment where interfering vibration is at a minimum, to give fast reading stabilisation. The VWR weighing table features a sturdy, stable frame.

- Granite weighing surface
- Adjustable feet
- Meets highest anti-vibration standards, with four vibration dampers located under the work surface
- Facilitates fast stabilisation times

Installation not included.

Description	Colour	W×D×H (mm)	Weight (kg)	Pk	Cat. No.
Balance table, granite, with vibration dampers and adjustable feet	Grey	900×600×760	267	1	**611-2549**



ANTI-VIBRATION WEIGHING SURFACE

Polished granite. Four absorbing feet dampen the transmission of extraneous vibrations to this slab making it suitable, not only for high precision weighing, but also microscopy and other similar delicate instrumentation.

Description	W×D×H (mm)	Weight (kg)	Pk	Cat. No.
Anti-vibration weighing surface, granite	560×450×65	44	1	**611-2536**



BALANCE AND WEIGHT CLEANING KIT

Cleaning kit containing a puffer brush (lens cleaning brush), cotton cloth and pair of nitrile gloves.

In a resealable plastic bag.

Description	Pk	Cat. No.
Balance and weight cleaning kit		
Cleaning kit for weights and balances	1 KIT	**611-2886**



RECHARGEABLE EXTERNAL BATTERY PACK

Eco friendly battery pack to replace lead-acid batteries which are now restricted/prohibited for transportation.

- Long-lasting Li-ion battery - up to 40 hours (depending on connected device and use)
- Quick battery charge time of 5 hours
- Charge status indicated by four LED lights
- Three outputs (2× USB 5V 2100 mA and 1× DC 9 V/12 V)
- Capacity: 10000mAh/37 W

These batteries can be used to make some VWR balances portable for use around the laboratory, factory or on any flat surface. However, the battery pack has other very useful applications with Smart Phones, Tablet PCs, iPods or a range of devices powered via a USB port.

Weight: 304 g

W×D×H: 120×80×23 mm

Suitable for use with the following VWR balances: 611-2292; 611-2293; 611-2295; 611-2296; 611-2297; 611-2298; 611-2299; 611-2300; 611-2301; 611-2302; 611-2303; 611-2304; 611-2305; 611-2306; 611-2307; 611-2308; 611-2309; 611-2310; 611-2311; 611-2319; 611-2320; 611-2321; 611-2371; 611-2372; 611-2373; 611-2548; 611-2565; 611-600; 611-2605; 611-2606; 611-2607; 611-2610; 611-2629; 611-8622; 611-8623; 611-8624.

Supplied with USB spiral cable; 10 miscellaneous output-to-device adapters (Micro-USB, Mini-USB, PSP, NDS Nokia N70, LG KG800, Sony K750, Samsung G600, Samsung D800, Apple iPhone/iPad/iPod) - 6 Notebook and Netbook Adapter A = Sony B= Toshiba, NEC C= IBM, Acer, Toshiba D= HP, NEC, Compaq, Asus G= Acer, Benq H=Samsung); car charger 12 V and mains supply adapter with EU-plug.

Description		Pk	Cat. No.
Rechargeable external battery pack			
External rechargeable battery for portable operation	VWR balances	1 KIT	**611-8684**



STATISTICAL PRINTER FOR VWR BALANCES

The statistical printer is a bidirectional thermal printer that can be used with laboratory balances. It can print weight values and, when requested, a full statistical analysis of the values including: Number of values, mean value, sum, minimum, maximum, standard deviation and more. The printer can also record and print date/time and calibration details in compliance with GLP.

- Count and total of all measurements, minimum, maximum values, range (max-min)
- Average value, standard deviation
- GLP record keeping of balance calibration with date/time print
- Available units: mg, g, kg, pcs
- Languages: English, French, German

Supplied with connection cable for direct connection to a balance.

Printer can not be used with moisture analysers or balances with a graphic display/touch screen.

Description	For	Print width	W×D×H (mm)	Weight (g)	Pk	Cat. No.
Thermal printer with statistics function, print speed 0,75 lines/s, 40/80 characters/line	all VWR LCD balances, note it is not suitable for use with balances with a graphic display/touch screen or moisture analysers	112 mm	165×140×50	450	1	**611-3623**

Description	For	Pk	Cat. No.
Accessories			
Paper roll for thermal printer	Printer (611-3623)	1 Roll	**611-3714**



PRINTER, FOR VWR BALANCES

A compact line thermal dot printer which can be used with VWR balances.

- Includes an internal clock
- Prints date and time together with weight values
- Print speed 50 mm/s

Supplied with connection cable.

Description	Print width	W×D×H (mm)	Weight (g)	Pk	Cat. No.
Thermal printer TLP-50 for VWR LA, LP, IS, TA, TS, TP, SM balances and MB/MBT moisture analysers, EU-plug + UK-plug	54 mm	106×184×110 mm	950 g	1	**630-1485**

Description	For	Pk	Cat. No.
Accessories			
Roll of paper	TLP-50 printer (630-1485)	1 Roll	**611-3662**





ACCESSOIRES

Description	Pk	Cat. No.
Disposable glass fibre discs for sample dishes when analysing liquids and semi-solids	200	**611-3715**
Temperature calibration kit (for balances with serial numbers above IT14004360)	1	**611-3248**
Reusable sample test dishes	80	**611-2788**
Temperature calibration kit (for balances with serial numbers below IT14004360)	1	**611-2789**

INTERFACE AND SOFTWARE

611-3824 - Comunication kit to connect balance to a PC

Complete kit to connect balances to a computer. It allows data collection, Statistics, creation of graphs and export results to Excel file. The software included allows you to perform all the functions of the balance from the PC such as Piece count, Density, Peak hold, Limits set etc...from your computer.

The Kit includes: RS232-to-USB converter, serial cable, i-Weight Software for data collection and analysis

Operating systems: Windows 7, 8, 10 (32 and 64 bit)

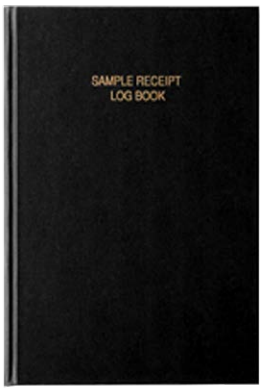
Not compatible with moisture analyser.

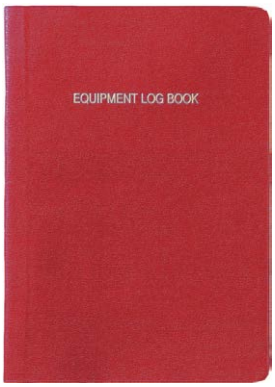
611-2786 - serial RS232 to USB converter

Used to convert serial RS232 output of balances into USB, so that balance can be connected directly to a computer.

611-2787 - serial cable

Serial cable, 9-pin for serial output to printer/PC.





LABORATORY LOG BOOKS

Imitation leather cover with coating, for durability in laboratory environments. Acid-free, archive-safe paper (90 gsm). Used to record and log data relating to laboratory equipment, temperature, balance calibration, reagents, animal maintenance and sample receipts.

- All pages for logging documentation have specific column headings for easy data entry
- Pages sewn in sections, books have round binding so that they lay flat
- Waterproof and tough

GLP, GMP and GCP guidelines.

Description	Colour	No. of pages	Pk	Cat. No.
Log book, laboratory equipment	Red	96	1	**818-0102**
Log book, animal maintenance	Black	168	1	**818-0103**
Log book, balance calibration	Green	168	1	**818-0104**
Log book, reagents	Dark red	168	1	**818-0105**
Log book, sample receipt	Red	168	1	**818-0106**
Log book, temperature	White	168	1	**818-0107**

MINI EQUIPMENT LOG BOOKS

'FLEX' covers with coating, for durability in laboratory environments. Acid-free, archive-safe paper (90 gsm).

- Pages specifically designed for logging and recording equipment data
- Tough coated cover

Format: A5 (14,8×21 cm) or A6 (10,5×14,8 cm), 96 numbered pages.

All books made in accordance with GLP, GMP and GCP guidelines.

Description	Colour	Paper size ()	No. of pages	Pk	Cat. No.
Mini equipment log book	Red	A5	96	1	**818-0108**
Mini equipment log book	Red	A6	96	1	**818-0109**

Calibration weights

Information, classification and tolerances

A balance needs to be readjusted on a regular base, depending on customers regulations and wishes.

- Manual readjusting: You need weights
- Automatic readjusting: Just push the button
- Automatic readjusting: Depending on time and temperature

VWR balances with internal calibration weight (suffix I) will automatically calibrate when ambient temperature changes and/or after a certain time has passed (IncaL+)

Advantages of balances with internal calibration weights

- Weights are better protected against dirt and damage
- Weights are always at the same temperature as the balance or scale
- The motorised calibration feature ensures that the weight is placed on the balance or scale in the most reproducible manner possible
- Automatic mode ultimately ensures that one of the most required tests concerning measuring equipment is fulfilled

Information on calibration weights: Certification

- VWR offers a large range of calibration weights delivered with or without an accredited calibration certificate
- Certificate is recognised in many countries which have signed multi- EA and bilateral agreements
- EA: European cooperation for accreditation - http://www.european-accreditation.org
- Main European countries: UK (UKAS)
- Germany (DKD), France (Cofrac)

Customer benefits

- Monobloc or rectangular calibration weights
- Traceable weights with laser printing
- Delivered with or without accredited calibration certificate
- Can be recalibrated
- Complete portfolio of weights, separate or in sets

For more information regarding the correct class of weight for the balance of your choice, see technical specifications on page xx

Classification

The classes of weights supplied by VWR meet the requirements described in OIML R 111-1 (2004):

- Class E1: Weights intended for use in the verification or calibration of class E2 weights, and for use with weighing instruments of special accuracy class I. Class E1 weights or weight sets will be accompanied by a calibration certificate
- Class E2: Weights intended for use in the verification or calibration of class F1 weights, and for use with weighing instruments of special accuracy class I. Class E2 weights or weight sets will be accompanied by a calibration certificate
- Class F1: Weights intended for use in the verification or calibration of class F2 weights, and for use with weighing instruments of special accuracy class I and high accuracy class II
- Class F2: Weights intended for use in the verification or calibration of class M1 and possibly class M2 weights. Also intended for use in important commercial transactions (e.g. precious metals and stones) on weighing instruments of high accuracy class II
- Class M1: Weights intended for use in the verification or calibration of class M2 weights, and for use with weighing instruments of medium accuracy Class III
- Class M2: Weights intended for use in the verification or calibration of class M3 weights, and for use in general commercial transactions, and with weighing instruments of medium accuracy class III







With factory calibration certificate

Nominal value	Tolerance (± mg)						
	E1	E2	F1	F2	M1	M2	M3
1 mg	0,002	0,006	0,020	0,06	0,2	-	-
2 mg	0,002	0,006	0,020	0,06	0,2	-	-
5 mg	0,002	0,006	0,020	0,06	0,2	-	-
10 mg	0,002	0,008	0,025	0,08	0,25	-	-
20 mg	0,003	0,010	0,03	0,10	0,3	--	-
50 mg	0,004	0,012	0,04	0,12	0,4	-	-
100 mg	0,005	0,015	0,05	0,15	0,5	1,5	-
200 mg	0,006	0,020	0,06	0,20	0,6	2,0	-
500 mg	0,008	0,025	0,08	0,25	0,8	2,5	-
1 g	0,010	0,030	0,10	0,3	1,0	3	10
2 g	0,012	0,040	0,12	0,4	1,2	4	12
5 g	0,015	0,050	0,15	0,5	1,5	5	15
10 g	0,020	0,060	0,20	0,6	2,0	6	20
20 g	0,025	0,080	0,25	0,8	2,5	8	25
50 g	0,030	0,100	0,30	1,0	3,0	10	30
100 g	0,05	0,15	0,5	1,5	5	15	50
200 g	0,10	0,30	1,0	3,0	10	30	100
500 g	0,25	0,75	2,5	7,5	25	75	250
1 kg	0,5	1,5	5	15	50	150	500
2 kg	1,0	3,0	10	30	100	300	1000
5 kg	2,5	7,5	25	75	250	750	2500
10 kg	5	15	50	150	500	1500	5000
20 kg	10	30	100	300	1000	3000	10000
50 kg	25	75	250	750	2500	7500	25000

CALIBRATION WEIGHTS E1 WITH CALIBRATION CERTIFICATE

Individual E1 OIML class weights are intended to ensure traceability between the national mass standards (with values derived from the International Prototype of the kilogram) and Class E2 and lower weights. They are also used with microbalances. Anti-magnetic, cobalt alloy weights are available from 1 to 500 mg. Packed in a plastic case, the wire weights are easy to store. Anti-magnetic, corrosion resistant, highly polished stainless steel knob weights are available from 1 to 200 g. Packed in a plastic case the weights are easy to store. Sets of weights are also available in either cobalt alloy or stainless steel with a choice of a plastic or wooden storage box.

- Identification number guarantees traceability for weights from 1 g upwards
- Laser engraving improves legibility of the markings
- Supplied with COFRAC certificate

Conform to OILM R111 recommendations.

Plastic cases have a vacuum sealed protective film to ensure that the case and calibration weight are protected during transportation.

Set	Weights included												
		1 mg	2 mg	5 mg	10 mg	20 mg	50 mg	100 mg	200 mg	500 mg			
1 - 500 mg		1	2	1	1	2	1	1	2	1			
	Includes 1 - 500 mg set +	1 g	2 g	5 g	10 g	20 g	50 g	100 g	200 g	500 g	1 kg	2 kg	5 kg	10 kg
1 mg - 50 g	1	1	2	1	1	2	1							
1 mg - 100 g	1	1	2	1	1	2	1	1						
1 mg - 200 g	1	1	2	1	1	2	1	1	2					
1 mg - 500 g	1	1	2	1	1	2	1	1	2	1				
1 mg - 1 kg	1	1	2	1	1	2	1	1	2	1	1			
1 mg - 2 kg	1	1	2	1	1	2	1	1	2	1	1	2		
1 mg - 5 kg	1	1	2	1	1	2	1	1	2	1	1	2	1	
1 mg - 10 kg	1	1	2	1	1	2	1	1	2	1	1	2	1	1
1 g - 50 g		1	2	1	1	2	1							
1 g - 100 g		1	2	1	1	2	1	1						
1 g - 200 g		1	2	1	1	2	1	1	2					
1 g - 500 g		1	2	1	1	2	1	1	2	1				
1 g - 1 kg		1	2	1	1	2	1	1	2	1	1			
1 g - 2 kg		1	2	1	1	2	1	1	2	1	1	2		
1 g - 5 kg		1	2	1	1	2	1	1	2	1	1	2	1	
1 g - 10 kg		1	2	1	1	2	1	1	2	1	1	2	1	1



Weight	Weight set	No. of weights	Tolerance	Total weight (g)	Type	Pk	Cat. No.
E1 cobalt alloy weights in plastic box with COFRAC certificate							
1 mg			±3 µg		Wire weight	1	**611-3635**
2 mg			±3 µg		Wire weight	1	**611-3636**
5 mg			±3 µg		Wire weight	1	**611-3637**
10 mg			±3 µg		Wire weight	1	**611-3638**
20 mg			±3 µg		Wire weight	1	**611-3639**
50 mg			±4 µg		Wire weight	1	**611-3640**
100 mg			±5 µg		Wire weight	1	**611-3641**
200 mg			±6 µg		Wire weight	1	**611-3642**
500 mg			±8 µg		Wire weight	1	**611-3643**
E1 stainless steel weights in plastic box with COFRAC certificate							
1 g			±0,010 mg		Knob weight	1	**611-3644**
2 g			±0,012 mg		Knob weight	1	**611-3645**
5 g			±0,016 mg		Knob weight	1	**611-3646**
10 g			±0,020 mg		Knob weight	1	**611-3647**
20 g			±0,025 mg		Knob weight	1	**611-3648**
50 g			±0,030 mg		Knob weight	1	**611-3649**
100 g			±0,05 mg		Knob weight	1	**611-3650**
200 g			±0,10 mg		Knob weight	1	**611-3651**
Set of 12 cobalt alloy weights in plastic box with COFRAC certificate							
	1 - 500 mg	12		1,11		1 SET	**611-3652**
Set of 12 cobalt alloy weights in wooden box with COFRAC certificate							
	1 - 500 mg	12		1,11		1 SET	**611-3653**
Set of 21 stainless steel weights in plastic box with COFRAC certificate							
	1 mg - 100 g	21		211,11		1 SET	**611-3654**
Set of 21 stainless steel weights in wooden box with COFRAC certificate							
	1 mg - 100 g	21		211,11		1 SET	**611-3655**
Set of 23 stainless steel weights in plastic box with COFRAC certificate							
	1 mg - 200 g	23		611,11		1 SET	**611-3656**
Set of 23 stainless steel weights in wooden box with COFRAC certificate							
	1 mg - 200 g	23		611,11		1 SET	**611-3657**

Description	Pk	Cat. No.
Balance and weight cleaning kit		
Cleaning kit for weights and balances	1 KIT	**611-2886**

CALIBRATION WEIGHTS, CLASS 1

Stainless steel masses adjusted to class 1 for precise checking and adjustment of electronic balances.

ASTM

Individual weights are supplied without certificate.



Weight (g)	Tolerance (± mg)	Pk	Cat. No.
50	120	1	**611-8759**
100	250	1	**611-8760**
200	500	1	**611-8761**
500	1200	1	**611-8762**
1000	2500	1	**611-8763**
2000	5000	1	**611-8764**
5000	12000	1	**611-8765**
10000	25000	1	**611-8766**

Avantor Services

avantor™

Equipment Services

Our equipment services optimise your uptime, ensuring your equipment is fully compliant and performing to specifications. We offer:

- Multi-vendor technical services
  - Installation
  - Repairs
  - Relocation
  - Calibration
  - Validation
  - Preventive maintenance
  - Warranty
- Asset management



PB19033-EN

CALIBRATION WEIGHTS, CLASS E2

Weights made from solid, anti-magnetic, polished stainless steel.

- Wire weights up to 500 mg in cobalt alloy
- Identification number guarantees traceability for weights from 1 g upwards
- Laser engraving improves legibility of the markings
- Available with or without COFRAC certificate

Suitable for high resolution electronic balances.

Conform to OILM R111 recommendations.

All weights from 1 mg to 20 kg are available with or without COFRAC certificate - please visit vwr.com or contact your local VWR sales office. A range of weight sets are also available - please search for product 'Calibration weight sets, class E2'.

Plastic cases have a vacuum sealed protective film to ensure that the case and calibration weight are protected during transportation.



Weight	Tolerance (± mg)	Pk	Cat. No.
E2 weights in plastic cases with COFRAC certificate			
1 mg	0,006	1	**611-8131**
2 mg	0,006	1	**611-8132**
5 mg	0,006	1	**611-8133**
10 mg	0,008	1	**611-8134**
20 mg	0,010	1	**611-8135**
50 mg	0,012	1	**611-8136**
100 mg	0,016	1	**611-8137**
200 mg	0,020	1	**611-8138**
500 mg	0,025	1	**611-8139**
1 g	0,03	1	**611-8140**
2 g	0,04	1	**611-8141**
5 g	0,05	1	**611-8142**
10 g	0,06	1	**611-8143**
20 g	0,08	1	**611-8144**
50 g	0,10	1	**611-8145**
100 g	0,16	1	**611-8146**
200 g	0,30	1	**611-8147**
500 g	0,75	1	**611-8148**
1 kg	1,6	1	**611-8149**
2 kg	3,0	1	**611-8150**
5 kg	7,5	1	**611-8151**
10 kg	16,0	1	**611-8152**
20 kg	30,0	1	**611-8428**
E2 weights in wooden boxes with COFRAC certificate			
500 g	0,75	1	**611-8399**
1 kg	1,6	1	**611-8400**
2 kg	3	1	**611-8423**
5 kg	7,5	1	**611-8424**
10 kg	16	1	**611-8425**
20 kg	30	1	**611-8426**
50 kg	50	1	**611-8427**

Weight	Tolerance (± mg)	Pk	Cat. No.
E2 weights in plastic cases without certificate			
1 mg	0,006	1	**611-8101**
2 mg	0,006	1	**611-8102**
5 mg	0,006	1	**611-8103**
10 mg	0,008	1	**611-8104**
20 mg	0,010	1	**611-8105**
50 mg	0,012	1	**611-8106**
100 mg	0,016	1	**611-8107**
200 mg	0,020	1	**611-8108**
500 mg	0,025	1	**611-8109**
1 g	0,03	1	**611-8110**
2 g	0,04	1	**611-8111**
5 g	0,05	1	**611-8112**
10 g	0,06	1	**611-8113**
20 g	0,08	1	**611-8114**
50 g	0,10	1	**611-8115**
100 g	0,16	1	**611-8116**
200 g	0,30	1	**611-8117**
500 g	0,75	1	**611-8118**
1 kg	1,6	1	**611-8119**
2 kg	3,0	1	**611-8120**
5 kg	7,5	1	**611-8121**
10 kg	16,0	1	**611-8122**
20 kg	30,0	1	**611-8398**
E2 weights in wooden boxes without certificate			
500 g	0,75	1	**611-8391**
1 kg	1,6	1	**611-8392**
2 kg	3	1	**611-8393**
5 kg	7,5	1	**611-8394**
10 kg	16	1	**611-8395**
20 kg	30	1	**611-8396**
50 kg	50	1	**611-8397**

CALIBRATION WEIGHT SETS, CLASS E2

Weights made from solid, anti-magnetic, polished stainless steel. Suitable for high resolution electronic balances.

- Wire weights up to 500 mg in cobalt alloy
- Identification number guarantees traceability for weights from 1 g upwards
- Laser engraving improves legibility of the markings
- Available with or without COFRAC certificate

Conform to OILM R111 recommendations.

All weight sets listed in the 'set contents' table are available with or without COFRAC certificate - please visit vwr.com or contact your local VWR sales office. Weights are also available individually - please search for product 'Calibration weights, class E2'.

Set	Weights included												
		1 mg	2 mg	5 mg	10 mg	20 mg	50 mg	100 mg	200 mg	500 mg			
1 - 500 mg		1	2	1	1	2	1	1	2	1			
	Includes 1 - 500 mg set +	1 g	2 g	5 g	10 g	20 g	50 g	100 g	200 g	500 g	1 kg	2 kg	5 kg	10 kg
1 mg - 50 g	1	1	2	1	1	2	1							
1 mg - 100 g	1	1	2	1	1	2	1	1						
1 mg - 200 g	1	1	2	1	1	2	1	1	2					
1 mg - 500 g	1	1	2	1	1	2	1	1	2	1				
1 mg - 1 kg	1	1	2	1	1	2	1	1	2	1	1			
1 mg - 2 kg	1	1	2	1	1	2	1	1	2	1	1	2		
1 mg - 5 kg	1	1	2	1	1	2	1	1	2	1	1	2	1	
1 mg - 10 kg	1	1	2	1	1	2	1	1	2	1	1	2	1	1
1 g - 50 g		1	2	1	1	2	1							
1 g - 100 g		1	2	1	1	2	1	1						
1 g - 200 g		1	2	1	1	2	1	1	2					
1 g - 500 g		1	2	1	1	2	1	1	2	1				
1 g - 1 kg		1	2	1	1	2	1	1	2	1	1			
1 g - 2 kg		1	2	1	1	2	1	1	2	1	1	2		
1 g - 5 kg		1	2	1	1	2	1	1	2	1	1	2	1	
1 g - 10 kg		1	2	1	1	2	1	1	2	1	1	2	1	1





Weight set	No. of weights	Total weight (g)	Pk	Cat. No.
E2 weight sets in wooden boxes with certificate				
1 mg - 500 mg	12	1,11	1	**611-8742**
1 mg - 50 g	20	111,11	1	**611-8743**
1 mg - 100 g	21	211,11	1	**611-8744**
1 mg - 200 g	23	611,11	1	**611-8745**
1 mg - 500 g	24	1111,11	1	**611-8746**
1 mg - 1 kg	25	2111,11	1	**611-8747**
1 mg - 2 kg	27	6111,11	1	**611-8748**
1 mg - 5 kg	28	11111,11	1	**611-8749**
1 mg - 10 kg	29	21111,11	1	**611-8750**
1 g - 50 g	8	110	1	**611-8751**
1 g - 100 g	9	210	1	**611-8752**
1 g - 200 g	11	610	1	**611-8753**
1 g - 500 g	12	1110	1	**611-8754**
1 g - 1 kg	13	2110	1	**611-8755**
1 g - 2 kg	15	6110	1	**611-8756**
1 g - 5 kg	16	11110	1	**611-8757**
1 g - 10 kg	17	21110	1	**611-8758**
E2 weight sets in plastic cases with certificate				
1 mg - 500 mg	12	1,11	1	**611-8454**
1 mg - 100 g	21	211,11	1	**611-8455**
1 mg - 200 g	23	611,11	1	**611-8456**
1 mg - 500 g	24	1111,11	1	**611-8457**
1 g - 100 g	9	210	1	**611-8458**
1 g - 200 g	11	610	1	**611-8459**
1 g - 500 g	12	1110	1	**611-8460**

Weight set	No. of weights	Total weight (g)	Pk	Cat. No.
E2 weight sets in wooden boxes without certificate				
1 mg - 500 mg	12	1,11	1	**611-8722**
1 mg - 50 g	20	111,11	1	**611-8723**
1 mg - 100 g	21	211,11	1	**611-8724**
1 mg - 200 g	23	611,11	1	**611-8725**
1 mg - 500 g	24	1111,11	1	**611-8726**
1 mg - 1 kg	25	2111,11	1	**611-8727**
1 mg - 2 kg	27	6111,11	1	**611-8728**
1 mg - 5 kg	28	11111,11	1	**611-8729**
1 mg - 10 kg	29	21111,11	1	**611-8730**
1 g - 50 g	8	110	1	**611-8731**
1 g - 100 g	9	210	1	**611-8732**
1 g - 200 g	11	610	1	**611-8733**
1 g - 500 g	12	1110	1	**611-8734**
1 g - 1 kg	13	2110	1	**611-8735**
1 g - 2 kg	15	6110	1	**611-8736**
1 g - 5 kg	16	11110	1	**611-8737**
1 g - 10 kg	17	21110	1	**611-8738**

CALIBRATION WEIGHTS, CLASS F1

Weights made from anti-magnetic, polished stainless steel. Suitable for medium resolution precision electronic balances. Weights have adjustment cavities for weights of more than 20 g.

- Wire weights up to 500 mg in cobalt alloy
- Identification number guarantees traceability for weights from 1 g upwards
- Laser engraving improves legibility of the markings
- Available with or without COFRAC certificate

Conform to OILM R111 recommendations.

All weights from 1 mg to 20 kg are available with or without COFRAC certificate - please visit vwr.com or contact your local VWR sales office. A range of weight sets are also available - please search for product 'Calibration weight sets, class F1'.

Plastic cases have a vacuum sealed protective film to ensure that the case and calibration weight are protected during transportation.



Weight	Tolerance (± mg)	Pk	Cat. No.
F1 weights in plastic cases with certificate			
1 mg	0,020	1	**611-8231**
2 mg	0,020	1	**611-8232**
5 mg	0,020	1	**611-8233**
10 mg	0,025	1	**611-8234**
20 mg	0,03	1	**611-8235**
50 mg	0,04	1	**611-8236**
100 mg	0,05	1	**611-8237**
200 mg	0,06	1	**611-8238**
500 mg	0,08	1	**611-8239**
1 g	0,10	1	**611-8240**
2 g	0,12	1	**611-8241**
5 g	0,15	1	**611-8242**
10 g	0,20	1	**611-8243**
20 g	0,25	1	**611-8244**
50 g	0,30	1	**611-8245**
100 g	0,50	1	**611-8246**
200 g	1,0	1	**611-8247**
500 g	2,5	1	**611-8248**
1 kg	5	1	**611-8249**
2 kg	10	1	**611-8250**
5 kg	25	1	**611-8251**
10 kg	50	1	**611-8252**
20 kg	100	1	**611-8094**
F1 weights in wooden boxes with certificate			
500 g	2,5	1	**611-8040**
1 kg	5	1	**611-8041**
2 kg	10	1	**611-8042**
5 kg	25	1	**611-8049**
10 kg	50	1	**611-8058**
20 kg	100	1	**611-8071**
50 kg	250	1	**611-8093**

Weight	Tolerance (± mg)	Pk	Cat. No.
F1 weights in plastic cases without certificate			
1 mg	0,020	1	**611-8201**
2 mg	0,020	1	**611-8202**
5 mg	0,020	1	**611-8203**
10 mg	0,025	1	**611-8204**
20 mg	0,03	1	**611-8205**
50 mg	0,04	1	**611-8206**
100 mg	0,05	1	**611-8207**
200 mg	0,06	1	**611-8208**
500 mg	0,08	1	**611-8209**
1 g	0,10	1	**611-8210**
2 g	0,12	1	**611-8211**
5 g	0,16	1	**611-8212**
10 g	0,20	1	**611-8213**
20 g	0,25	1	**611-8214**
50 g	0,30	1	**611-8215**
100 g	0,50	1	**611-8216**
200 g	1,0	1	**611-8217**
500 g	2,5	1	**611-8218**
1 kg	5	1	**611-8219**
2 kg	10	1	**611-8220**
5 kg	25	1	**611-8221**
10 kg	50	1	**611-8222**
20 kg	100	1	**611-8039**
F1 weights in wooden boxes without certificate			
500 g	2,5	1	**611-8028**
1 kg	2,5	1	**611-8029**
2 kg	10	1	**611-8033**
5 kg	25	1	**611-8035**
10 kg	50	1	**611-8036**
20 kg	100	1	**611-8037**
50 kg	150	1	**611-8038**

CALIBRATION WEIGHT SETS, CLASS F1

Weights made from anti-magnetic, polished stainless steel. Suitable for medium resolution, precision electronic balances. Weights of more than 20 g have adjustment cavities.

- Wire weights up to 500 mg in cobalt alloy
- Identification number guarantees traceability for weights from 1 g upwards
- Laser engraving improves legibility of the markings
- Available with or without COFRAC certificate

Conform to OILM R111 recommendations.

All weight sets listed in the 'set contents' table are available with or without COFRAC certificate - please visit vwr.com or contact your local VWR sales office. Weights are also available individually - please search for product 'Calibration weights, class F1'.



Set	Weights included												
		1 mg	2 mg	5 mg	10 mg	20 mg	50 mg	100 mg	200 mg	500 mg			
1 - 500 mg		1	2	1	1	2	1	1	2	1			
	Includes 1 - 500 mg set +	1 g	2 g	5 g	10 g	20 g	50 g	100 g	200 g	500 g	1 kg	2 kg	5 kg	10 kg
1 mg - 100 g	1	1	2	1	1	2	1	1						
1 mg - 200 g	1	1	2	1	1	2	1	1	2					
1 mg - 500 g	1	1	2	1	1	2	1	1	2	1				
1 mg - 1 kg	1	1	2	1	1	2	1	1	2	1	1			
1 mg - 2 kg	1	1	2	1	1	2	1	1	2	1	1	2		
1 mg - 5 kg	1	1	2	1	1	2	1	1	2	1	1	2	1	
1 mg - 10 kg	1	1	2	1	1	2	1	1	2	1	1	2	1	1
1 g - 100 g		1	2	1	1	2	1	1						
1 g - 200 g		1	2	1	1	2	1	1	2					
1 g - 500 g		1	2	1	1	2	1	1	2	1				
1 g - 1 kg		1	2	1	1	2	1	1	2	1	1			
1 g - 2 kg		1	2	1	1	2	1	1	2	1	1	2		
1 g - 5 kg		1	2	1	1	2	1	1	2	1	1	2	1	
1 g - 10 kg		1	2	1	1	2	1	1	2	1	1	2	1	1

Weight set	No. of weights	Total weight (g)	Pk	Cat. No.
F1 weight sets in wooden boxes with certificate				
1 mg - 500 mg	12	1,11	1	**611-8632**
1 mg - 50 g	20	111,11	1	**611-8633**
1 mg - 100 g	21	211,11	1	**611-8634**
1 mg - 200 g	23	611,11	1	**611-8635**
1 mg - 500 g	24	1111,11	1	**611-8636**
1 mg - 1 kg	25	2111,11	1	**611-8637**
1 mg - 2 kg	27	6111,11	1	**611-8638**
1 mg - 5 kg	28	11111,11	1	**611-8639**
1 mg - 10 kg	29	21111,11	1	**611-8640**
1 g - 50 g	8	110	1	**611-8641**
1 g - 100 g	9	210	1	**611-8642**
1 g - 200 g	11	610	1	**611-8643**
1 g - 500 g	12	1110	1	**611-8644**
1 g - 1 kg	13	2110	1	**611-8645**
1 g - 2 kg	15	6110	1	**611-8646**
1 g - 5 kg	16	11110	1	**611-8647**
1 g - 10 kg	17	21110	1	**611-8648**
F1 weight sets in plastic cases with certificate				
1 mg - 500 mg	12	1,11	1	**611-8461**
1 mg - 100 g	21	211,11	1	**611-8462**
1 mg - 200 g	23	611,11	1	**611-8463**
1 mg - 500 g	24	1111,11	1	**611-8464**
1 mg - 2 kg	27	6111,11	1	**611-8649**
1 mg - 5 kg	28	11111,11	1	**611-8650**
1 g - 100 g	9	210	1	**611-8465**
1 g - 200 g	11	610	1	**611-8466**
1 g - 500 g	12	1110	1	**611-8467**
1 g - 2 kg	15	6110	1	**611-8651**
1 g - 5 kg	16	11110	1	**611-8652**
F1 weight sets in wooden boxes without certificate				
1 mg - 500 mg	12	1,11	1	**611-8602**
1 mg - 50 g	20	111,11	1	**611-8603**
1 mg - 100 g	21	211,11	1	**611-8292**
1 mg - 200 g	23	611,11	1	**611-8604**
1 mg - 500 g	24	1111,11	1	**611-8605**
1 mg - 1 kg	25	2111,11	1	**611-8606**
1 mg - 2 kg	27	6111,11	1	**611-8607**
1 mg - 5 kg	28	11111,11	1	**611-8608**
1 mg - 10 kg	29	21111,11	1	**611-8609**
1 g - 50 g	8	110	1	**611-8610**
1 g - 100 g	9	210	1	**611-8611**
1 g - 200 g	11	610	1	**611-8612**
1 g - 500 g	12	1110	1	**611-8613**
1 g - 1 kg	13	2110	1	**611-8614**
1 g - 2 kg	15	6110	1	**611-8615**
1 g - 5 kg	16	11110	1	**611-8616**
1 g - 10 kg	17	21110	1	**611-8617**
F1 weight sets in plastic cases without certificate				
1 mg - 2 kg	27	6111,11	1	**611-8618**
1 mg - 5 kg	28	11111,11	1	**611-8619**
1 g - 2 kg	15	6110	1	**611-8620**
1 g - 5 kg	16	11110	1	**611-8621**

CALIBRATION WEIGHTS, CLASS F1, CALBOX, CERTIFIED

An economical range of calibration sets, with only three stainless steel weights, to meet routine calibration requirements of precision and analytical balances.

- Individual serial number and calibration certificate
- Each weight, from 1 g upwards, has a unique identification number for traceability
- Laser engraving improves legibility of the markings

Weights supplied in modern aluminium case with tweezers and balance brush.



Weight set	No. of weights	Type	Pk	Cat. No.
200 mg; 5 g; 50 g	3	With certificate	1	**611-2428**
200 mg; 10 g; 100 g	3	With certificate	1	**611-2429**
200 mg; 20 g; 200 g	3	With certificate	1	**611-2430**
200 mg; 50 g; 500 g	3	With certificate	1	**611-2432**
2 g; 20 g; 200 g	3	With certificate	1	**611-2431**
2 g; 50 g; 500 g	3	With certificate	1	**611-2433**
2 g; 100 g; 1 kg	3	With certificate	1	**611-2434**
20 g; 100 g; 1 kg	3	With certificate	1	**611-2435**
20 g; 200 g; 2 kg	3	With certificate	1	**611-2436**
20 g; 500 g; 5 kg	3	With certificate	1	**611-2437**

CALIBRATION WEIGHTS, CLASS F2

Stainless steel Class F2 weights for users who require moderate levels of tolerance values in their calibration and day-to-day weighing.

- Wire weights up to 500 mg in cobalt alloy
- Identification number guarantees traceability for weights from 1 g upwards
- Laser engraving improves legibility of the markings
- Available with or without COFRAC certificate

Conform to OILM R111 recommendations.

All weights from 1 mg to 20 kg are available with or without COFRAC certificate - please visit vwr.com or contact your local VWR sales office. A range of sets of weights are also available - please search for product 'Calibration weight sets, class F2'.

Plastic cases have a vacuum sealed protective film to ensure that the case and calibration weight are protected during transportation.



Weight	Tolerance (± mg)	Pk	Cat. No.
F2 weights in plastic cases with certificate			
1 mg	0,06	1	**611-8179**
2 mg	0,06	1	**611-8180**
5 mg	0,06	1	**611-8181**
10 mg	0,08	1	**611-8182**
20 mg	0,10	1	**611-8183**
50 mg	0,12	1	**611-8184**
100 mg	0,16	1	**611-8185**
200 mg	0,20	1	**611-8186**
500 mg	0,25	1	**611-8187**
1 g	0,3	1	**611-8188**
2 g	0,4	1	**611-8189**
5 g	0,5	1	**611-8190**
10 g	0,6	1	**611-8195**
20 g	0,8	1	**611-8196**
50 g	1,0	1	**611-8197**
100 g	1,6	1	**611-8198**
200 g	3,0	1	**611-8199**
500 g	7,5	1	**611-8200**
1 kg	15	1	**611-8223**
2 kg	30	1	**611-8224**
5 kg	75	1	**611-8225**
10 kg	150	1	**611-8226**
20 kg	300	1	**611-8227**
F2 weights in wooden boxes with certificate			
500 g	7,5	1	**611-8172**
1 kg	15	1	**611-8173**
2 kg	30	1	**611-8174**
5 kg	75	1	**611-8175**
10 kg	150	1	**611-8176**
20 kg	300	1	**611-8177**
50 kg	750	1	**611-8178**

Weight	Tolerance (± mg)	Pk	Cat. No.
F2 weights in plastic cases without certificate			
1 mg	0,06	1	**611-8126**
2 mg	0,06	1	**611-8127**
5 mg	0,06	1	**611-8128**
10 mg	0,08	1	**611-8129**
20 mg	0,10	1	**611-8130**
50 mg	0,12	1	**611-8154**
100 mg	0,16	1	**611-8155**
200 mg	0,20	1	**611-8156**
500 mg	0,25	1	**611-8157**
1 g	0,3	1	**611-8158**
2 g	0,4	1	**611-8159**
5 g	0,5	1	**611-8160**
10 g	0,6	1	**611-8161**
20 g	0,8	1	**611-8162**
50 g	1,0	1	**611-8163**
100 g	1,6	1	**611-8164**
200 g	3,0	1	**611-8165**
500 g	7,5	1	**611-8166**
1 kg	15	1	**611-8167**
2 kg	30	1	**611-8168**
5 kg	75	1	**611-8169**
10 kg	150	1	**611-8170**
20 kg	300	1	**611-8171**
F2 weights in wooden boxes without certificate			
500 g	7,5	1	**611-8095**
1 kg	15	1	**611-8096**
2 kg	30	1	**611-8097**
5 kg	75	1	**611-8098**
10 kg	150	1	**611-8099**
20 kg	300	1	**611-8100**
50 kg	750	1	**611-8125**

CALIBRATION WEIGHT SETS, CLASS F2

Stainless steel. Wire weights up to 500 mg in cobalt alloy.

- Identification number guarantees traceability for weights from 1 g upwards
- Laser engraving improves legibility of the markings
- Available with or without COFRAC certificate

Conform to OILM R111 recommendations.



Set	Weights included												
		1 mg	2 mg	5 mg	10 mg	20 mg	50 mg	100 mg	200 mg	500 mg			
1 - 500 mg		1	2	1	1	2	1	1	2	1			
20 - 500 mg						2	1	1	2	1			
	Includes 1 - 500 mg set +	1 g	2 g	5 g	10 g	20 g	50 g	100 g	200 g	500 g	1 kg	2 kg	5 kg	10 kg
1 mg - 100 g	1	1	2	1	1	2	1	1						
1 mg - 200 g	1	1	2	1	1	2	1	1	2					
1 mg - 500 g	1	1	2	1	1	2	1	1	2	1				
1 mg - 1 kg	1	1	2	1	1	2	1	1	2	1	1			
1 mg - 2 kg	1	1	2	1	1	2	1	1	2	1	1	2		
1 mg - 5 kg	1	1	2	1	1	2	1	1	2	1	1	2	1	
1 mg - 10 kg	1	1	2	1	1	2	1	1	2	1	1	2	1	1
1 g - 100 g		1	2	1	1	2	1	1						
1 g - 200 g		1	2	1	1	2	1	1	2					
1 g - 500 g		1	2	1	1	2	1	1	2	1				
1 g - 1 kg		1	2	1	1	2	1	1	2	1	1			
1 g - 2 kg		1	2	1	1	2	1	1	2	1	1	2		
1 g - 5 kg		1	2	1	1	2	1	1	2	1	1	2	1	
1 g - 10 kg		1	2	1	1	2	1	1	2	1	1	2	1	1

Weight set	No. of weights	Total weight (g)	Pk	Cat. No.
F2 weight sets in wooden boxes with certificate				
1 mg - 500 mg	12	1,11	1	**611-8692**
1 mg - 50 g	20	111,11	1	**611-8693**
1 mg - 100 g	21	211,11	1	**611-8694**
1 mg - 200 g	23	611,11	1	**611-8695**
1 mg - 500 g	24	1111,11	1	**611-8696**
1 mg - 1 kg	25	2111,11	1	**611-8697**
1 mg - 2 kg	27	6111,11	1	**611-8698**
1 mg - 5 kg	28	11111,11	1	**611-8699**
1 mg - 10 kg	29	21111,11	1	**611-8700**
1 g - 50 g	8	110	1	**611-8701**
1 g - 100 g	9	210	1	**611-8702**
1 g - 200 g	11	610	1	**611-8703**
1 g - 500 g	12	1110	1	**611-8704**
1 g - 1 kg	13	2110	1	**611-8705**
1 g - 2 kg	15	6110	1	**611-8706**
1 g - 5 kg	16	11110	1	**611-8707**
1 g - 10 kg	17	21110	1	**611-8708**
F2 weight sets in plastic cases with certificate				
1 mg - 2 kg	27	6111,11	1	**611-8709**
1 mg - 5 kg	28	11111,11	1	**611-8710**
1 g - 2 kg	15	6110	1	**611-8711**
1 g - 5 kg	16	11110	1	**611-8712**

Weight set	No. of weights	Total weight (g)	Pk	Cat. No.
F2 weight sets in wooden boxes without certificate				
1 mg - 500 mg	12	1,11	1	**611-8662**
1 mg - 50 g	20	111,11	1	**611-8663**
1 mg - 100 g	21	211,11	1	**611-8664**
1 mg - 200 g	23	611,11	1	**611-8665**
1 mg - 500 g	24	1111,11	1	**611-8666**
1 mg - 1 kg	25	2111,11	1	**611-8667**
1 mg - 2 kg	27	6111,11	1	**611-8668**
1 mg - 5 kg	28	11111,11	1	**611-8669**
1 mg - 10 kg	29	21111,11	1	**611-8670**
1 g - 50 g	8	110	1	**611-8671**
1 g - 100 g	9	210	1	**611-8672**
1 g - 200 g	11	610	1	**611-8673**
1 g - 500 g	12	1110	1	**611-8674**
1 g - 1 kg	13	2110	1	**611-8675**
1 g - 2 kg	15	6110	1	**611-8676**
1 g - 5 kg	16	11110	1	**611-8677**
1 g - 10 kg	17	21110	1	**611-8678**
F2 weight sets in plastic cases without certificate				
1 mg - 2 kg	27	6111,11	1	**611-8679**
1 mg - 5 kg	28	11111,11	1	**611-8680**
1 g - 2 kg	15	6110	1	**611-8681**
1 g - 5 kg	16	11110	1	**611-8682**

CALIBRATION WEIGHTS, CLASS M1

Weights from 1 g to 50 g are monobloc weights, with larger weights having an adjusting cavity.

All weights are supplied in plastic cases.



Stainless steel monobloc weight

Weight	Tolerance (± mg)	Pk	Cat. No.
Aluminium sheet weights with certificate, M1			
1 mg	0,2	1	**611-8272**
2 mg	0,2	1	**611-8273**
5 mg	0,2	1	**611-8274**
10 mg	0,25	1	**611-8275**
20 mg	0,3	1	**611-8276**
50 mg	0,4	1	**611-8277**
100 mg	0,5	1	**611-8278**
200 mg	0,6	1	**611-8279**
500 mg	0,8	1	**611-8280**
Stainless steel weights with certificate, M1			
1 g	1,0	1	**611-8281**
2 g	1,2	1	**611-8282**
5 g	1,6	1	**611-8283**
10 g	2,0	1	**611-8284**
20 g	2,5	1	**611-8285**
50 g	3,0	1	**611-8286**
100 g	5	1	**611-8287**
200 g	10	1	**611-8288**
500 g	25	1	**611-8289**
1 kg	50	1	**611-8294**
2 kg	100	1	**611-8295**
5 kg	250	1	**611-8296**
10 kg	500	1	**611-8297**

Weight	Tolerance (± mg)	Pk	Cat. No.
Aluminium sheet weights without certificate, M1			
1 mg	0,2	1	**611-8228**
2 mg	0,2	1	**611-8229**
5 mg	0,2	1	**611-8230**
10 mg	0,25	1	**611-8253**
20 mg	0,3	1	**611-8254**
50 mg	0,4	1	**611-8255**
100 mg	0,5	1	**611-8256**
200 mg	0,6	1	**611-8257**
500 mg	0,8	1	**611-8258**
Stainless steel weights without certificate, M1			
1 g	1,0	1	**611-8259**
2 g	1,2	1	**611-8260**
5 g	1,6	1	**611-8261**
10 g	2,0	1	**611-8262**
20 g	2,5	1	**611-8263**
50 g	3,0	1	**611-8264**
100 g	5	1	**611-8265**
200 g	10	1	**611-8266**
500 g	25	1	**611-8267**
1 kg	50	1	**611-8268**
2 kg	100	1	**611-8269**
5 kg	250	1	**611-8270**
10 kg	500	1	**611-8271**

CALIBRATION WEIGHT SET, CLASS M1

- 10 g stainless steel knob weight
- 50 g stainless steel knob weight
- 100 g nickel plated brass knob weight

Weights are supplied in a bag.



Weight set	No. of weights	Pk	Cat. No.
10 g; 50 g; 100 g	3	1	**611-1854**



Cardboard packaging for block weight



Stainless steel monobloc weight

BLOCK WEIGHTS, CLASS M1

Rectangular weights made from cast iron (density 7,2 g/cm^3).

- Indelible unique identification number guarantees traceability

Colour: Grey

Conforms to OILM, COFRAC accredited.

Block weights are supplied with cardboard packaging to protect the weights during transportation.

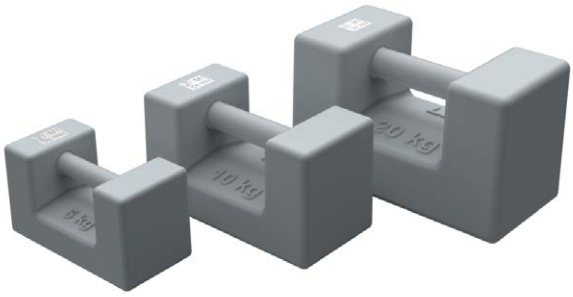
Weight (kg)	Tolerance (± mg)	Type	Pk	Cat. No.
5	250	Without certificate	1	**611-8298**
10	500	Without certificate	1	**611-8299**
20	1000	Without certificate	1	**611-8300**
50	2500	Without certificate	1	**611-8323**
5	250	With certificate	1	**611-8324**
10	500	With certificate	1	**611-8325**
20	1000	With certificate	1	**611-8326**
50	2500	With certificate	1	**611-8327**

CALIBRATION WEIGHTS, CLASS M2

Test weights in either stainless steel or aluminium.

Supplied in a plastic box.

Weight	Tolerance (± mg)	Pk	Cat. No.
Aluminium sheet weights with certificate, M2			
100 mg	1,6	1	**611-8367**
200 mg	2,0	1	**611-8368**
500 mg	2,5	1	**611-8369**
Stainless steel weights with certificate, M2			
1 g	3	1	**611-8370**
2 g	4	1	**611-8371**
5 g	5	1	**611-8372**
10 g	6	1	**611-8373**
20 g	8	1	**611-8374**
50 g	10	1	**611-8375**
100 g	16	1	**611-8376**
200 g	30	1	**611-8377**
500 g	75	1	**611-8378**
1 kg	160	1	**611-8379**
2 kg	300	1	**611-8380**
5 kg	750	1	**611-8381**
10 kg	1600	1	**611-8382**
Aluminium sheet weights without certificate, M2			
100 mg	1,6	1	**611-8328**
200 mg	2,0	1	**611-8329**
500 mg	2,5	1	**611-8330**
Stainless steel weights without certificate, M2			
1 g	3	1	**611-8353**
2 g	4	1	**611-8354**
5 g	5	1	**611-8355**
10 g	6	1	**611-8356**
20 g	8	1	**611-8357**
50 g	10	1	**611-8358**
100 g	16	1	**611-8359**
200 g	30	1	**611-8361**
500 g	75	1	**611-8362**
1 kg	160	1	**611-8363**
2 kg	300	1	**611-8364**
5 kg	750	1	**611-8365**
10 kg	1600	1	**611-8366**



BLOCK WEIGHTS, IRON, CLASS M2

Rectangular weights made from cast iron, permanently magnetised.

- Indelible unique identification number guarantees traceability
- Painted grey
- Adjustment cavity sealed with a lead plug

Conforms to OILM, COFRAC accredited.

Weight (kg)	Tolerance (± mg)	Pk	Cat. No.
Block weights with certificate			
5	750	1	**611-8387**
10	1600	1	**611-8388**
20	3000	1	**611-8389**
50	7500	1	**611-8390**
Block weights without certificate			
5	750	1	**611-8383**
10	1600	1	**611-8384**
20	3000	1	**611-8385**
50	7500	1	**611-8386**

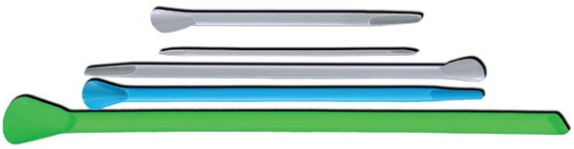


SCHOOL WEIGHTS

Brass weights which are ideal for schools introducing the concepts of weights and forces.

Set	Weights included								
	1 g	2 g	5 g	10 g	20 g	50 g	100 g	200 g	500 g
500 g	1	2	1	2	1	1	2	1	
1 kg	1	2	1	2	1	1	2	1	1

Weight (g)	Tolerance ()	Pk	Cat. No.
Single weight			
1	3%	1	**611-1843**
2	3%	1	**611-1844**
5	3%	1	**611-1845**
10	3%	1	**611-1846**
20	3%	1	**611-1847**
50	3%	1	**611-1848**
100	3%	1	**611-1849**
200	3%	1	**611-1850**
500	3%	1	**611-1851**
Set of weights in plastic case			
1 - 500		1	**611-1852**
1 - 1000		1	**611-1853**





DISPOSABLE SPATULAS

PP. Multipurpose, robust, inexpensive tools for collecting, transferring and processing samples of chemical and biological materials.

- Resistant to dilute acids and alkalis
- Reduces cross-contamination
- Autoclavable

The innovative shape of these spatulas allows them to be used as a spatula, spoon, scoop, scraper, mixing rod or for wiping. Ideal for recovering samples that have been frozen in liquid nitrogen. The macro type disposable spatula is 50% larger than the standard disposable spatula. The long shaft makes it easier to transfer material from larger containers.

Compliant with FDA standards for applications involving contact with food.

Description	Sterile	Length (mm)	Blade width (mm)	Colour	Pk	Cat. No.
Micro disposable spatulas, anti-static		140	3	Natural	300	**231-0106**
Disposable Eco spatulas, biodegradable (EcoPure® additive)		140	7	Natural	300	**231-0416**
Standard disposable spatulas		210	7	Blue	300	**231-0103**
Standard disposable spatulas		210	7	Opaque	300	**231-0104**
Sterile disposable spatulas	+	210	7	Natural	100	**231-0369**
Sterile disposable spatulas, non pyrogenic	+	210	7	Natural	100	**231-0593**
Macro disposable spatulas		310	13	Green	150	**231-0105**

SPATULAS

PS, white. This spatula, with its long, ergonomic solid handle and pointed blade, can easily pierce paper and plastic bags.

- Production, assembling and packaging according to cleanroom Class 7 (10 000)
- According to EU food and FDA guidelines
- Individually packed, sterilised by gamma radiation

Ideal for sampling powder, granules and pastes.

Length (mm)	Colour	Pk	Cat. No.
263	White	100	**231-0492**



SAMPLING SCOOPS

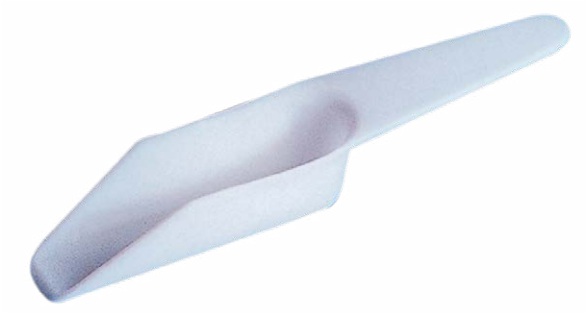
PS, white. These sterile scoops are ideal for sampling powder, granules and pastes.

- Individually packed
- Sterilised by gamma radiation

Thanks to the special handle construction, and the slightly angled edge, the scoop stands horizontally and can be laid down without the material trickling out.

Production, assembly and packaging according to cleanroom Class 7 (10 000). According to EU food and FDA guidelines.

Capacity (ml)	Length (mm)	Colour	Pk	Cat. No.
25	141	White	100	**231-0622**
50	161	White	100	**231-0490**
100	205	White	100	**231-0623**
150	216	White	100	**231-0491**
250	232	White	100	**231-0624**
500	280	White	100	**231-0625**



SCOOP

PTFE, white.

- Totally chemically inert
- Non contaminating
- Suitable for use with frozen substances and other solids

Scoop length: 80 mm

Total length: 140 mm

Length (mm)	Width (mm)	Ø (mm)	Colour	Pk	Cat. No.
140	30	20	White	1	**231-0501**



SAMPLING SPOONS

PS, white.

These disposable spoons are produced in a cleanroom environment and sterilised by gamma radiation. They are ideal for sampling powder, granules and pastes.

- Available in two different sizes: 2,5 ml (similar to a teaspoon) and 10 ml (similar to a tablespoon)
- Production, assembly and packaging according to cleanroom Class 7 (10 000)
- According to EU food and FDA guidelines
- Individually packed, sterilised by gamma radiation

Length (mm)	Capacity (ml)	Pk	Cat. No.
127	2,5	100	**231-0493**
170	10	100	**231-0494**



DISPOSABLE WEIGHING BOATS

PS, square.

- Shallow form with wide, flat bottom to resist tipping
- Temperature resistant up to +70 °C

These sturdy weighing boats, with smooth surfaces, are ideal for weighing solid products. Biologically inert and resistant to dilute and weak acids, aqueous solutions, alcohols and bases.

These weighing boats are produced and packaged in plastic bags in a cleanroom.

W×D×H (mm)	Pk	Cat. No.
90×90×7	500	**611-2249**



DISPOSABLE WEIGHING BOATS

PS, diamond.

- Wide, flat bottom avoids tipping
- Temperature resistant up to +70 °C

These flexible boats feature smooth surfaces to provide accurate pour-out with minimal sample loss. They are ideal for use with microwaves and moisture analysers.

These weighing boats are produced and packaged in plastic bags in a cleanroom.

Capacity (ml)	W×D×H (mm)	Colour	Pk	Cat. No.
Standard				
5	55×35×6	White	500	**611-1993**
5	55×35×6	Black	500	**611-1996**
25	80×50×14	White	500	**611-0097**
25	80×50×14	Black	500	**611-9184**
30	80×60×14	White	500	**611-9161**
30	80×60×14	Black	500	**611-9185**
100	125×100×19	White	500	**611-9162**
100	125×100×19	Black	500	**611-9186**
Anti-static				
5	55×35×6	White	500	**611-1994**
5	55×35×6	Black	500	**611-1995**
25	71×46×14	White	500	**611-9187**
25	80×50×14	Black	500	**611-9190**
30	80×60×14	White	500	**611-9188**
30	80×60×14	Black	500	**611-9191**
100	125×100×19	White	500	**611-9189**
100	125×100×19	Black	500	**611-9192**



DISPOSABLE WEIGHING BOATS

PS, square.

- Shallow form with wide, flat bottom avoids tipping
- Rounded corners simplify transfer
- Temperature resistant up to +70 °C

These flexible weighing boats, with smooth surfaces, enable accurate pour-out with minimal sample loss. They are biologically inert and resistant to dilute and weak acids, aqueous solutions, alcohols and bleaches. Ideal for use with microwaves, balances or moisture analysers.

These weighing boats are produced and packaged in plastic bags in a cleanroom.

Capacity (ml)	W×D×H (mm)	Colour	Pk	Cat. No.
Standard				
7	46×46×8	Blue	500	**611-9168**
7	46×46×8	Black	500	**611-9175**
7	46×46×8	White	500	**611-0093**
100	85×85×24	Blue	500	**611-9169**
100	85×85×24	Black	500	**611-9176**
100	85×85×24	White	500	**611-0094**
250	140×140×22	Blue	500	**611-9170**
250	140×140×22	Black	500	**611-9177**
250	140×140×22	White	500	**611-0095**
Anti-static				
7	46×46×8	Blue	500	**611-3113**
7	46×46×8	Black	500	**611-9181**
7	46×46×8	White	500	**611-9178**
100	85×85×24	Blue	500	**611-3114**
100	85×85×24	Black	500	**611-9182**
100	85×85×24	White	500	**611-9179**
250	140×140×22	Blue	500	**611-3115**
250	140×140×22	Black	500	**611-9183**
250	140×140×22	White	500	**611-9180**



DISPOSABLE, ANTI-STATIC WEIGHING BOATS

PS, hexagonal.

- Flat bottom avoids tipping
- Sloping sides provide accurate transfer
- Temperature resistant up to +70 °C

These boats feature smooth surfaces to enable accurate pour-out with minimal sample loss. Biologically inert and resistant to dilute and weak acids, aqueous solutions, alcohols and bases. These flexible boats bend at points to form pouring spouts.

These weighing boats are produced and packaged in plastic bags in a cleanroom.

Description	Int.Ø bottom (mm)	Int.Ø top (mm)	Colour	Pk	Cat. No.
Small	25	38	White	500	**611-9171**
Medium	51	64	White	500	**611-9172**
Large	76	102	White	500	**611-9173**
X-Large	89	127	White	500	**611-9174**

Description	Int.Ø bottom (mm)	Int.Ø top (mm)	Colour	Pk	Cat. No.
Small	25	38	White	500	**611-9171**
Medium	51	64	White	500	**611-9172**



WEIGHING BOATS, PAPER

VWR® paper weighing boats are a first in eco friendly laboratory consumables.

- Control contents like a polystyrene weighing boat making them easier to handle than standard, flat weighing paper
- Made of greaseproof paper that meets FDA 21 CFR 176.170, components of paper in contact with aqueous and fatty foods, with 21 CFR 176.180 and contact with dry foods
- Compatible with heat applications up to a maximum of 210 °C

They are both **Eco-In** and **Eco-Out**.

Eco-In because they are FSC® Certified. The papers used to manufacture our boats are made from responsibly forested wood products.

Eco-Out because they are naturally biodegradable in the standard municipal waste stream.

Environmentally preferable attribute	Waste Reducing, Sustainable Materials	Sustainable Materials, Sustainable Packaging	Sustainable Materials

Description	W×D×H (mm)	Colour	Pk	Cat. No.
FSC® Certified	35×35×15	White	500	**611-3258**
FSC® Certified	35×35×15	Brown	500	**611-3256**
FSC® Certified	45×45×15	White	500	**611-3259**
FSC® Certified	45×45×15	Brown	500	**611-3257**
FSC® Certified	92×92×25	White	250	**611-3625**
FSC® Certified	92×92×25	Brown	250	**611-3624**



WEIGHING BOATS

Borosilicate 3.3 glass.

- Ideal for weighing small samples
- Powders can be tapped or rinsed through the tubular stem of the weighing boats into the receiving vessel

Capacity (ml)	Length (mm)	Pk	Cat. No.
3	70	3	**611-9194**
6	85	3	**611-9195**
10	100	3	**611-9196**



WEIGHING BOATS

Porcelain, glazed.

Length (mm)	Width (mm)	Pk	Cat. No.
37	17	3	**611-2386**
53	23	3	**611-2387**
64	29	3	**611-2388**



POUR-BOAT WEIGHING DISHES

PS.

- Flat bottom avoids tipping
- Temperature resistant to +70 °C
- Maximise recovery of often very expensive chemicals
- Biologically inert and resistant to dilute and weak acids, aqueous solutions, alcohols and bases

Samples are easily dispensed with the pour spout design without flexing the dish. These flat bottomed dishes are made from 0,3 mm thick polystyrene for better strength, stability and handling.

The anti-static versions help reduce the risk of static build up on samples, and helps maximise sample transfer when weighing out products.

These weighing boats are produced and packaged in plastic bags in a cleanroom.

Description	W×D×H (mm)	Colour	Pk	Cat. No.
Standard				
Small	43×58×13	White	500	**611-9163**
Medium	83×132×26	White	500	**611-9164**
Large	108×183×26	White	500	**611-9165**
Anti-static				
Small	43×58×13	White	500	**611-3116**
Medium	83×132×26	White	500	**611-3117**
Large	108×183×26	White	500	**611-3118**



DISPOSABLE WEIGHING DISHES

Aluminium, light gauge.

- Flanged edge with curled lip for increased stability
- Contaminant- and oil-free
- Stackable

Ideal for weighing, sampling, dispensing, storage, food processing, evaporating or general laboratory use.

Int.Ø×H (mm)	Pk	Cat. No.
44×13	100	**611-1374**
63×18	100	**611-1373**
65×30	100	**611-1376**
110×29	50	**611-1377**
180×25	50	**611-1375**



DISPOSABLE WEIGHING DISHES WITH TABS

Aluminium.

- Flat bottom and crimped sides for rigidity
- Dishes feature tabs for easy handling
- Oil-free
- Slightly tapered for easy stacking

Sturdy, disposable dishes feature crimped sides and tabs. Ideal for general purpose weighing, dispensing and storage applications. Can also serve as evaporating dishes, parts containers or dust covers.

Capacity (ml)	Int.Ø×H (mm)	Pk	Cat. No.
8	28×10	500	**611-1362**
20	43×13	100	**611-1378**
60	57×16	144	**611-1371**
60	57×16	100	**611-1372**
80	70×16	100	**611-1379**



DISPOSABLE WEIGHING AND DRYING DISHES OR PANS

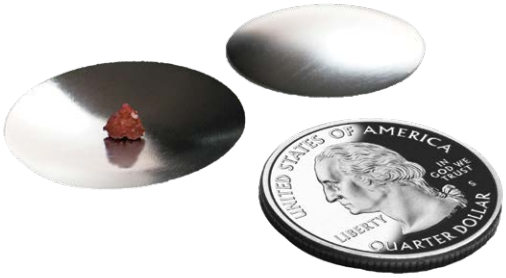
Dishes and pans, made of aluminium.

- Compatible with most balances and dryers
- Oil-free
- Slightly tapered for easy stacking

Sturdy, disposable dishes and pans. Ideal for general purpose weighing, dispensing, storage and drying applications.

Description	Capacity (ml)	Int.Ø×H (mm)	Pk	Cat. No.
Disposable smooth-walled aluminium weighing dishes				
Smooth-sided, flat bottom, multipurpose 'utility' dish.	30	57×16	100	**611-3658**
Smooth-sided, flat bottom, multipurpose 'utility' dish.	80	70×16	100	**611-1380**
Smooth-sided, flat bottom, multipurpose 'utility' dish.	140	103×19	100	**611-3659**
Disposable aluminum weighing/drying pans				
Weighing pan, ideal for general purpose weighing and dispensing. Compatible with both open and enclosed balances with a small weighing area (70 - 95 mm).	40	70×6,3	50	**611-1354**
Weighing/drying pan, ideal for general purpose weighing, dispensing, storage and drying. Compatible with Mettler, Sartorius, AND, Denver Instruments.	60	102×7,9	50	**611-1353**
Flat-top balance pan. Compatible with Ohaus balances and moisture analysers or any flat top balance.	50	127×5	100	**611-1350**
Disposable aluminium drying pans for solids/liquids				
Drying pan for solids (compatible with Cenco moisture analyser).	30	110×9,5	25	**611-1351**
Drying pan for liquids (compatible with Cenco moisture analyser).	50	110×7,9	25	**611-1352**





DISPOSABLE MICRO WEIGHING DISHES

Aluminium.

These micro weighing boats are compatible with most commercially available analysers and microbalances, and are packed in easy to use plastic containers for storage and dispensing.

Capacity (ml)	W×D×H	Int.Ø×H (mm)	Pk	Cat. No.
Round form				
0,035		6×2,5	250	**611-1355**
0,35		13×3,5	100	**611-1356**
Oval form				
0,04	6,5×3,5×2,5		250	**611-1357**
0,11	10×4×4,5		250	**611-1358**
0,12	12×2×4,5		250	**611-1361**
0,12	12×4×2,7		250	**611-1360**
1,12	25×7×7		50	**611-1359**

WEIGHING DISHES, SMARTPANS™

Cahn's style weighing pans compatible with most available analysers and microbalances.

- Made of Ultra High Vacuum (UHV) foil
- Wettable and completely free from oils (normally found on other grades of aluminum foil)

Suitable for organic, micro elementary and thermal analysis. Also convenient for pharmaceutical applications.

ASTM B-479 3.1.4 and 10.3.1.

In easy to use polypropylene flip-top vials.

Environmentally preferable attribute	Waste Reducing

Description	Ø ext. (mm)	Height (mm)	Colour	Pk	Cat. No.
Weighing dishes	25	3,5	Silver	20	**611-3834**
Weighing dishes	25	3,5	Silver	100	**611-3835**



WEIGHING BOTTLES

Borosilicate 3.3 glass, low form.

- Interchangeable knobbed lid with ground joint
- White labelling area
- Resistant to chemicals and thermal shock

Capacity (ml)	Ø×H (mm)	NS	Pk	Cat. No.
6	25×25	24/12	1	**611-3817**
15	35×30	34/12	1	**611-3818**
15	40×25	40/12	1	**611-3819**
30	50×30	50/12	1	**611-3820**
45	60×30	60/12	1	**611-3821**
80	80×30	80/12	1	**611-3822**



WEIGHING PAPER, GRADE 531

For weighing a range of substances (viscous products, powders, paste and liquids).

Size (mm)	Weight	Thickness (mm)	Pk	Cat. No.
100×100	45 g/m²	0,06	250	**516-0318**

Specifications balances overview

Technical specifications

Model	Repeatability (std. dev.)	Linearity deviation	Minimum load (verified balances)
IS16001	0,05 g	± 0,3 g	20 g
IS32001	0,1 g	± 0,4 g	20 g
IS32001.5	0,1 g	± 0,5 g	20 g
IS32001D	0,05 / 0,5 g	± 0,2 g/ ± 1 g	20 g
ISG16001	0,05 g	± 0,3 g	20 g
ISG32001	0,1 g	± 0,4 g	20 g
ISG32001D	0,05 / 0,5 g	± 0,2 g/ ± 1 g	20 g
LA124	0,0001 g	± 0,0003 g	10 mg
LA124I	0,0001 g	± 0,0003 g	10 mg
LA124I-M	0,0001 g	± 0,0003 g	10 mg
LA214	0,0001 g	± 0,0003 g	10 mg
LA214I	0,0001 g	± 0,0003 g	10 mg
LA214I-M	0,0001 g	± 0,0003 g	10 mg
LA254I	0,0001 g	± 0,0003 g	10 mg
LA254I-M	0,0001 g	± 0,0003 g	10 mg
LA314I	0,0001 g	± 0,0004 g	10 mg
LAG214I	0,0001 g	± 0,0003 g	10 mg
LAG214I-M	0,0001 g	± 0,0003 g	10 mg
LAG254I-M	0,0001 g	± 0,0003 g	10 mg
LAG314I	0,0001 g	± 0,0004 g	10 mg
LAG414I	0,1 mg <310 g 0,3 mg 310 g...410 g	± 0,0005 g	10 mg
LAG514I	0,1 mg <310 g 0,3 mg 310 g…510 g	± 0,0005 g	10 mg
LAG614I	0,1 mg <310 g 0,3 mg 310 g…610 g	± 0,0006 g	10 mg
LP1002	0,01 g	± 0,02 g	500 mg
LP1002I	0,01 g	± 0,02 g	500 mg
LP16001	0,08 g	± 0,3 g	20 g
LP20001	0,1 g	± 0,4 g	20 g
LP2102	0,01 g	± 0,03 g	500 mg
LP2102I	0,01 g	± 0,03 g	500 mg
LP3102	0,01 g	± 0,03 g	500 mg
LP4102I-M	0,01 g	± 0,03 g	500 mg
LP4202	0,01 g	± 0,04 g	500 mg
LP4202I	0,01 g	± 0,03 g	500 mg
LP6202I	0,01 g	± 0,03 g	500 mg
LP6202I-M	0,01 g	± 0,03 g	500 mg
LP6501	0,05 g	± 0,1 g	20 g
LP8202	0,01 g	± 0,04 g	500 mg
LPC1203I	0,001 g	± 0,003 g	100 mg
LPC203	0,0006 g	± 0,003 g	20 mg
LPC503I	0,001 g	± 0,002 g	20 mg
LPC523I-M	0,001 g	± 0,002 g	20 mg
LPC723I	0,001 g	± 0,002 g	20 mg
LPC723I-M	0,001 g	± 0,002 g	20 mg
LPCG -723I	0,001 g	± 0,002 g	20 mg
LPCG523I-M	0,001 g	± 0,002 g	20 mg
LPCG723I-M	0,001 g	± 0,002 g	20 mg

	Tare range (subtractive)	Response time (typical)	Span drift in +10…+30°C	Cat. No.
	16000 g	3 sec.	± 6 ppm/°C	611-4520
	32000 g	4 sec.	± 6 ppm/°C	611-4528
	32000 g	3 sec.	± 6 ppm/°C	611-4529
	4500 / 32000 g	3 sec.	± 6 ppm/°C	611-4530
	16000 g	3 sec.	± 6 ppm/°C	611-4536
	32000 g	4 sec.	± 6 ppm/°C	611-4537
	4500 / 32000 g	3 sec.	± 6 ppm/°C	611-4538
	120 g	4 sec.	± 3 ppm/°C	611-2258
	120 g	4 sec.	± 2 ppm/°C	611-2261
	120 g	4 sec.	± 2 ppm/°C	611-3261
	220 g	4 sec.	± 3 ppm/°C	611-2260
	220 g	4 sec.	± 2 ppm/°C	611-2263
	220 g	4 sec.	± 2 ppm/°C	611-3263
	250 g	4 sec.	± 2 ppm/°C	611-2264
	250 g	4 sec.	± 2 ppm/°C	611-3264
	310 g	4 sec.	± 2 ppm/°C	611-2265
	220 g	4 sec.	± 2 ppm/°C	611-2269
	220 g	4 sec.	± 2 ppm/°C	611-3267
	250 g	4 sec.	± 2 ppm/°C	611-3268
	310 g	4 sec.	± 2 ppm/°C	611-2271
	410 g	4 sec.	± 2 ppm/°C	611-3280
	510 g	4 sec.	± 2 ppm/°C	611-3282
	610 g	4 sec.	± 2 ppm/°C	611-3457
	1000 g	3 sec.	± 5 ppm/°C	611-2298
	1000 g	3 sec.	± 4 ppm/°C	611-2629
	16000 g	3 sec.	± 6 ppm/°C	611-2320
	20000 g	4 sec.	± 6 ppm/°C	611-2321
	2200 g	3 sec.	± 5 ppm/°C	611-2300
	2200 g	3 sec.	± 4 ppm/°C	611-2302
	3100 g	3 sec.	± 5 ppm/°C	611-2301
	4200 g	2 sec.	± 3 ppm/°C	611-3277
	4200 g	4 sec.	± 5 ppm/°C	611-2319
	4200 g	2 sec.	± 3 ppm/°C	611-2289
	6200 g	3 sec.	± 3 ppm/°C	611-3472
	6200 g	3 sec.	± 3 ppm/°C	611-3296
	6500 g	2 sec.	± 6 ppm/°C	611-2308
	8200 g	3 sec.	± 4 ppm/°C	611-3469
	1200 g	3 sec.	± 3 ppm/°C	611-3458
	210 g	3 sec.	± 4 ppm/°C	611-2600
	520 g	2 sec.	± 3 ppm/°C	611-2274
	520 g	2 sec.	± 3 ppm/°C	611-3269
	720 g	2 sec.	± 3 ppm/°C	611-2275
	720 g	2 sec.	± 3 ppm/°C	611-3270
	720 g	2 sec.	± 3 ppm/°C	611-2283
	520 g	2 sec.	± 3 ppm/°C	611-3273
	720 g	2 sec.	± 3 ppm/°C	611-3274

Model	Repeatability (std. dev.)	Linearity deviation	Minimum load (verified balances)
LPG16001	0,08 g	± 0,3 g	20 g
LPG20001	0,1 g	± 0,4 g	20 g
LPG2102I	0,01 g	± 0,03 g	500 mg
LPG3102	0,01 g	± 0,03 g	500 mg
LPG4102I-M	0,01 g	± 0,03 g	500 mg
LPG4202I	0,01 g	± 0,03 g	500 mg
LPG4202I	0,01 g	± 0,04 g	500 mg
LPG6202I	0,01 g	± 0,03 g	500 mg
LPG6501	0,05 g	± 0,1 g	20 g
LPG8202	0,01 g	± 0,04 g	500 mg
LPGW-2103I	0,001 g	± 0,005 g	100 mg
LPGW723I-M	0,001 g	± 0,002 g	20 mg
LPW2103I	0,001 g	± 0,005 g	100 mg
LPW213	0,0006 g	± 0,003 g	20 mg
LPW213I	0,0006 g	± 0,003 g	20 mg
LPW303I	0,0006 g	± 0,003 g	20 mg
LPW423I	0,001 g	± 0,004 g	20 mg
LPW503I	0,001 g	± 0,002 g	20 mg
LPW523I-M	0,001 g	± 0,002 g	20 mg
LPW723I	0,001 g	± 0,002 g	20 mg
LPW723I-M	0,001 g	± 0,002 g	20 mg
LPWG1203I	0,001 g	± 0,003 g	100 mg
LPWG203I	0,0006 g	± 0,003 g	20 mg
LPWG303I	0,0006 g	± 0,003 g	20 mg
LPWG423I	0,001 g	± 0,004 g	20 mg
LPWG523I-M	0,001 g	± 0,002 g	20 mg
LPWG723	0,001 g	± 0,002 g	20 mg
LPWG723I	0,001 g	± 0,002 g	20 mg
SE1502	0,01 g	± 0,02 g	500 mg
SE3102	0,01 g	± 0,03 g	500 mg
SE4202P	0,01 g	± 0,04 g	500 mg
SE622	0,01 g	± 0,02 g	500 mg
SEB2201	0,1 g	± 0,3 g	20 g
SEB422	0,01 g	± 0,02 g	500 mg
SEC123	0,0008 g	± 0,003 g	20 mg
SEC213	0,001 g	± 0,003 g	20 mg
SEC313	0,001 g	± 0,003 g	20 mg
SEC423	0,001 g	± 0,004 g	20 mg
SM1265DI	0,02 mg / 0,1 mg	± 0,06/± 0,2 mg	10 mg
SM1265DI-ION	0,02 mg / 0,1 mg	± 0,06/± 0,2 mg	10 mg
SM2285DI	0,02 mg / 0,1 mg	± 0,06/± 0,2 mg	10 mg
SM2285DI-ION	0,02 mg / 0,1 mg	± 0,06/± 0,2 mg	10 mg
SM425i	0,02 mg	± 0,04 mg	10 mg
SMG1265DI	0,02 mg / 0,1 mg	± 0,06/± 0,2 mg	10 mg
SMG1265DI-ION	0,02 mg / 0,1 mg	± 0,06/± 0,2 mg	10 mg
SMG2285DI	0,02 mg / 0,1 mg	± 0,06/± 0,2 mg	10 mg
SMG2285DI-ION	0,02 mg / 0,1 mg	± 0,06/± 0,2 mg	10 mg
SMG425I	0,02 mg	± 0,04 mg	10 mg
TA214I	0,0001 g	± 0,0003 g	10 mg
TA214I	0,0001 g	± 0,0003 g	10 mg
TA214I-ION	0,0001 g	± 0,0003 g	10 mg
TA314I	0,0001 g	± 0,0004 g	10 mg
TA314I	0,0001 g	± 0,0004 g	10 mg
TA414I	0,1 mg <310 g 0,3 mg 310 g...410 g	± 0,0005 g	10 mg
TA414I-ION	0,1 mg <310 g 0,3 mg 310 g...410 g	± 0,0005 g	10 mg
TA614I	0,1 mg <310 g 0,3 mg 310 g...610 g	± 0,0006 g	10 mg
TIS16001	0,05 g	± 0,3 g	20 g
TIS32001	0,1 g	± 0,4 g	20 g
TP 6202I	0,01 g	± 0,03 g	500 mg
TP 6202I	0,01 g	± 0,03 g	500 mg
TP16001	0,08 g	± 0,3 g	20 g
TP20001	0,1 g	± 0,4 g	20 g
TP2102	0,01 g	± 0,03 g	500 mg
TP4202	0,01 g	± 0,03 g	500 mg
TP6501	0,05 g	± 0,1 g	20 g
TPW 313I	0,0006 g	± 0,003 g	20 mg
TPW 523I	0,001 g	± 0,002 g	20 mg
TPW 723I	0,001 g	± 0,002 g	20 mg
TS 1245DI	0,02 mg / 0,1 mg	± 0,06/± 0,2 mg	10 mg
TS1265DI-ION	0,02 mg / 0,1 mg	± 0,06/± 0,2 mg	10 mg
TS2215DI	0,03 mg / 0,1 mg	± 0,06/± 0,2 mg	10 mg
TS2285DI	0,02 mg / 0,1 mg	± 0,06/± 0,2 mg	10 mg
TS2285Di-ION	0,02 mg / 0,1 mg	± 0,06/± 0,2 mg	10 mg
TS425I	0,02 mg	± 0,04 mg	10 mg

	Tare range (subtractive)	Response time (typical)	Span drift in +10…+30°C	Cat. No.
	16000 g	3 sec.	± 6 ppm/°C	611-2372
	20000 g	4 sec.	± 6 ppm/°C	611-2373
	2200 g	3 sec.	± 4 ppm/°C	611-2307
	3100 g	3 sec.	± 5 ppm/°C	611-2306
	4200 g	2 sec.	± 3 ppm/°C	611-3278
	4200 g	2 sec.	± 3 ppm/°C	611-2291
	4200 g	4 sec.	± 4 ppm/°C	611-3475
	6200 g	3 sec.	± 3 ppm/°C	611-3474
	6500 g	2 sec.	± 6 ppm/°C	611-2310
	8200 g	3 sec.	± 4 ppm/°C	611-3470
	2100 g	3 sec.	± 3 ppm/°C	611-3284
	720 g	2 sec.	± 3 ppm/°C	611-3276
	2100 g	3 sec.	± 3 ppm/°C	611-3283
	210 g	3 sec.	± 4 ppm/°C	611-2610
	210 g	3 sec.	± 3 ppm/°C	611-2296
	310 g	3 sec.	± 3 ppm/°C	611-4316
	420 g	4 sec.	± 3 ppm/°C	611-4317
	520 g	2 sec.	± 3 ppm/°C	611-2278
	520 g	2 sec.	± 3 ppm/°C	611-3271
	720 g	2 sec.	± 3 ppm/°C	611-2279
	720 g	2 sec.	± 3 ppm/°C	611-3272
	1200 g	3 sec.	± 3 ppm/°C	611-3460
	210 g	3 sec.	± 3 ppm/°C	611-2297
	310 g	3 sec.	± 3 ppm/°C	611-4344
	420 g	4 sec.	± 3 ppm/°C	611-4346
	520 g	2 sec.	± 3 ppm/°C	611-3275
	720 g	2 sec.	± 4 ppm/°C	611-2285
	720 g	2 sec.	± 3 ppm/°C	611-2287
	1500 g	2 sec.	± 6 ppm/°C	611-2315
	3100 g	3 sec.	± 6 ppm/°C	611-2316
	4200 g	3 sec.	± 6 ppm/°C	611-3476
	620g	2 sec.	± 6 ppm/°C	611-2602
	2200 g	2 sec.	± 6 ppm/°C	611-2607
	420 g	2 sec.	± 6 ppm/°C	611-3299
	120 g	3 sec.	± 5 ppm/°C	611-2312
	210 g	3 sec.	± 5 ppm/°C	611-2313
	310 g	3 sec.	± 5 ppm/°C	611-2314
	420 g	3 sec.	± 5 ppm/°C	611-3468
	62 g / 120 g	6 sec.	± 2 ppm/°C	611-3534
	62 g / 120 g	6 sec.	± 2 ppm/°C	611-3800
	82 g / 220 g	6 sec.	± 2 ppm/°C	611-3537
	82 g / 220 g	6 sec.	± 2 ppm/°C	611-3801
	42 g	6 sec.	± 2 ppm/°C	611-3547
	62 g / 120 g	6 sec.	± 2 ppm/°C	611-3554
	62 g / 120 g	6 sec.	± 2 ppm/°C	611-3806
	82 g / 220 g	6 sec.	± 2 ppm/°C	611-3557
	82 g / 220 g	6 sec.	± 2 ppm/°C	611-3807
	42 g	6 sec.	± 2 ppm/°C	611-3551
	220 g	4 sec.	± 2 ppm/°C	611-3674
	220 g	4 sec.	± 2 ppm/°C	611-3674
	220 g	4 sec.	± 2 ppm/°C	611-3828
	310 g	4 sec.	± 2 ppm/°C	611-3676
	310 g	4 sec.	± 2 ppm/°C	611-3676
	410 g	4 sec.	± 2 ppm/°C	611-3677
	410 g	4 sec.	± 2 ppm/°C	611-3829
	610 g	4 sec.	± 2 ppm/°C	611-3679
	16000 g	3 sec.	± 6 ppm/°C	611-4539
	32000 g	4 sec.	± 6 ppm/°C	611-4540
	6200 g	3 sec.	± 3 ppm/°C	611-3697
	6200 g	3 sec.	± 3 ppm/°C	611-3697
	16000g	3 sec.	± 6 ppm/°C	611-4339
	20000 g	4 sec.	± 6 ppm/°C	611-3703
	2200 g	3 sec.	± 5 ppm/°C	611-3695
	4200 g	2 sec.	± 4 ppm/°C	611-3696
	6500 g	2 sec.	± 6 ppm/°C	611-3701
	310 g	3 sec.	± 3 ppm/°C	611-3688
	520 g	2 sec.	± 3 ppm/°C	611-3689
	720 g	2 sec.	± 3 ppm/°C	611-3690
	62 g / 120 g	6 sec.	± 2 ppm/°C	611-3664
	62 g / 120 g	6 sec.	± 2 ppm/°C	611-3811
	102 g / 220 g	6 sec.	± 2 ppm/°C	611-3667
	82 g / 220 g	6 sec.	± 2 ppm/°C	611-3666
	82 g / 220 g	6 sec.	± 2 ppm/°C	611-3812
	42 g	6 sec.	± 2 ppm/°C	611-3663

Model	Interface	Database capacity	Working temperature	Power supply
IS16001	RS232	-	5 - 35 °C	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
IS32001	RS232	-	5 - 35 °C	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
IS32001.5	RS232	-	5 - 35 °C	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
IS32001D	RS232	-	5 - 35 °C	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
ISG16001	RS232	-	5 - 35 °C	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
ISG32001	RS232	-	5 - 35 °C	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
ISG32001D	RS232	-	5 - 35 °C	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
LA124	RS232	-	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
LA124I	RS232	-	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
LA124I-M	RS232	-	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
LA214	RS232	-	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
LA214I	RS232	-	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
LA214I-M	RS232	-	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
LA254I	RS232	-	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
LA254I-M	RS232	-	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
LA314I	RS232	-	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
LAG214I	RS232	99	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
LAG214I-M	RS232	99	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
LAG254I-M	RS232	99	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
LAG314I	RS232	99	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
LAG414I	RS232	99	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
LAG514I	RS232	99	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
LAG614I	RS232	99	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
LP1002	RS232	-	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
LP1002I	RS232	-	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
LP16001	RS232	-	5 - 35 °C	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
LP20001	RS232	-	5 - 35 °C	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
LP2102	RS232	-	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
LP2102I	RS232	-	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
LP3102	RS232	-	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
LP4102I-M	RS232	-	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
LP4202	RS232	-	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
LP4202I	RS232	-	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
LP6202I	RS232	-	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
LP6202I-M	RS232	-	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
LP6501	RS232	-	5 - 35 °C	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
LP8202	RS232	-	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
LPC1203I	RS232	-	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
LPC203	RS232	-	5 - 35 °C	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
LPC503I	RS232	-	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
LPC523I-M	RS232	-	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
LPC723I	RS232	-	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
LPC723I-M	RS232	-	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
LPCG -723I	RS232	99	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
LPCG523I-M	RS232	99	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
LPCG723I-M	RS232	99	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
LPG16001	RS232	99	5 - 35 °C	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
LPG20001	RS232	99	5 - 35 °C	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
LPG2102I	RS232	99	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
LPG3102	RS232	99	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
LPG4102I-M	RS232	99	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
LPG4202I	RS232	99	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
LPG4202I	RS232	99	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
LPG6202I	RS232	99	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
LPG6501	RS232	99	5 - 35 °C	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
LPG8202	RS232	99	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
LPGW-2103I	RS232	99	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
LPGW723I-M	RS232	99	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
LPW2103I	RS232	-	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
LPW213	RS232	-	5 - 35 °C	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
LPW213I	RS232	-	5 - 35 °C	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
LPW303I	RS232	-	5 - 35 °C	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
LPW423I	RS232	-	5 - 35 °C	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
LPW503I	RS232	-	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
LPW523I-M	RS232	-	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
LPW723I	RS232	-	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
LPW723I-M	RS232	-	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
LPWG1203I	RS232	99	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
LPWG203I	RS232	99	5 - 35 °C	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
LPWG303I	RS232	99	5 - 35 °C	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
LPWG423I	RS232	99	5 - 35 °C	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
LPWG523I-M	RS232	99	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
LPWG723	RS232	99	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
LPWG723I	RS232	99	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA

	Power consumption (max)	Calibrates with (class)	Balance WxLxH	Net weight / gross weight, approx.	Cat. No.
	1 Watt	2000 g (F1)	360 x 355 x 130 mm	7 / 8,2 kg	611-4520
	1 Watt	2000 g (F1)	360 x 355 x 130 mm	7 / 8,2 kg	611-4528
	1 Watt	2000 g (F1)	360 x 355 x 130 mm	7 / 8,2 kg	611-4529
	1 Watt	2000 g (F1)	360 x 355 x 130 mm	7 / 8,2 kg	611-4530
	1 Watt	2000 g (F1)	360 x 355 x 130 mm	7 / 8,2 kg	611-4536
	1 Watt	2000 g (F1)	360 x 355 x 130 mm	7 / 8,2 kg	611-4537
	1 Watt	2000 g (F1)	360 x 355 x 130 mm	7 / 8,2 kg	611-4538
	2 Watt	100 g (E2)	215 x 345 x 345 mm	6,3 / 8,9 kg	611-2258
	2 Watt	100 g (E2)	215 x 345 x 345 mm	6,5 / 9,1 kg	611-2261
	2 Watt	100 g (E2)	215 x 345 x 345 mm	6,5 / 9,1 kg	611-3261
	2 Watt	200 g (E2)	215 x 345 x 345 mm	6,3 / 8,9 kg	611-2260
	2 Watt	200 g (E2)	215 x 345 x 345 mm	6,6 / 9,2 kg	611-2263
	2 Watt	200 g (E2)	215 x 345 x 345 mm	6,6 / 9,2 kg	611-3263
	2 Watt	200 g (E2)	215 x 345 x 345 mm	6,6 / 9,2 kg	611-2264
	2 Watt	200 g (E2)	215 x 345 x 345 mm	6,6 / 9,2 kg	611-3264
	2 Watt	200 g (E2)	215 x 345 x 345 mm	6,7 / 9,3 kg	611-2265
	2 Watt	200 g (E2)	215 x 345 x 345 mm	6,6 / 9,2 kg	611-2269
	2 Watt	200 g (E2)	215 x 345 x 345 mm	6,6 / 9,2 kg	611-3267
	2 Watt	200 g (E2)	215 x 345 x 345 mm	6,6 / 9,2 kg	611-3268
	2 Watt	200 g (E2)	215 x 345 x 345 mm	6,7 / 9,3 kg	611-2271
	2 Watt	200 g (E2)	215 x 345 x 345 mm	7,2 / 9,8 kg	611-3280
	2 Watt	200 g (E2)	215 x 345 x 345 mm	7,2 / 9,8 kg	611-3282
	2 Watt	200 g (E2)	215 x 345 x 345 mm	7,2 / 9,8 kg	611-3457
	1 Watt	200 g (F1)	215 x 345 x 100 mm	3,3 / 4,5 kg	611-2298
	1 Watt	200 g (F1)	215 x 345 x 100 mm	3,6 / 4,8 kg	611-2629
	1 Watt	2000 g (F1)	215 x 345 x 100 mm	3,5 / 4,7 kg	611-2320
	1 Watt	2000 g (F1)	215 x 345 x 100 mm	3,5 / 4,7 kg	611-2321
	1 Watt	1000 g (F1)	215 x 345 x 100 mm	3,3 / 4,5 kg	611-2300
	1 Watt	1000 g (F1)	215 x 345 x 100 mm	3,6 / 4,8 kg	611-2302
	1 Watt	2000 g (F1)	215 x 345 x 100 mm	3,3 / 4,5 kg	611-2301
	2 Watt	2000 g (F1)	215 x 345 x 100 mm	5,1 / 7,1 kg	611-3277
	1 Watt	2000 g (F1)	215 x 345 x 100 mm	3,3 / 4,5 kg	611-2319
	2 Watt	2000 g (F1)	215 x 345 x 100 mm	5,1 / 7,1 kg	611-2289
	2 Watt	2000 g (F1)	215 x 345 x 100 mm	5,2 / 7,2 kg	611-3472
	2 Watt	2000 g (F1)	215 x 345 x 100 mm	5,2 / 7,2 kg	611-3296
	1 Watt	2000 g (F1)	215 x 345 x 100 mm	3,5 / 4,7 kg	611-2308
	2 Watt	2000 g (F1)	215 x 345 x 100 mm	4,6 / 6,6 kg	611-3469
	2 Watt	200 g (F1)	215 x 345 x 155 mm	5,1 / 7,1 kg	611-3458
	1 Watt	100 g (F1)	215 x 345 x 155 mm	3,3 / 4,5 kg	611-2600
	2 Watt	200 g (F1)	215 x 345 x 155 mm	4,9 / 6,9 kg	611-2274
	2 Watt	200 g (F1)	215 x 345 x 155 mm	4,9 / 6,9 kg	611-3269
	2 Watt	200 g (F1)	215 x 345 x 155 mm	4,9 / 6,9 kg	611-2275
	2 Watt	200 g (F1)	215 x 345 x 155 mm	4,9 / 6,9 kg	611-3270
	2 Watt	200 g (F1)	215 x 345 x 155 mm	4,9 / 6,9 kg	611-2283
	2 Watt	200 g (F1)	215 x 345 x 155 mm	4,9 / 6,9 kg	611-3273
	2 Watt	200 g (F1)	215 x 345 x 155 mm	4,9 / 6,9 kg	611-3274
	1 Watt	2000 g (F1)	215 x 345 x 100 mm	3,5 / 4,7 kg	611-2372
	1 Watt	2000 g (F1)	215 x 345 x 100 mm	3,5 / 4,7 kg	611-2373
	1 Watt	1000 g (F1)	215 x 345 x 100 mm	3,6 / 4,8 kg	611-2307
	1 Watt	2000 g (F1)	215 x 345 x 100 mm	3,3 / 4,5 kg	611-2306
	2 Watt	2000 g (F1)	215 x 345 x 100 mm	5,1 / 7,1 kg	611-3278
	2 Watt	2000 g (F1)	215 x 345 x 100 mm	5,1 / 7,1 kg	611-2291
	1 Watt	2000 g (F1)	215 x 345 x 100 mm	3,8 / 5 kg	611-3475
	2 Watt	2000 g (F1)	215 x 345 x 100 mm	5,2 / 7,2 kg	611-3474
	1 Watt	2000 g (F1)	215 x 345 x 100 mm	3,5 / 4,7 kg	611-2310
	2 Watt	2000 g (F1)	215 x 345 x 100 mm	4,6 / 6,6 kg	611-3470
	2 Watt	1000 g (E2)	215 x 345 x 455 mm	6,8 / 9,4	611-3284
	2 Watt	200 g (F1)	215 x 345 x 345 mm	6,3 / 8,9 kg	611-3276
	2 Watt	1000 g (E2)	215 x 345 x 455 mm	6,8 / 9,4	611-3283
	1 Watt	100 g (F1)	215 x 345 x 345 mm	4,3 / 5,8 kg	611-2610
	1 Watt	100 g (F1)	215 x 345 x 345 mm	4,6 / 6,1 kg	611-2296
	1 Watt	200 g (F1)	215 x 345 x 345 mm	4,6 / 6,1 kg	611-4316
	1 Watt	200 g (F1)	215 x 345 x 345 mm	4,6 / 6,1 kg	611-4317
	2 Watt	200 g (F1)	215 x 345 x 345 mm	6,3 / 8,7 kg	611-2278
	2 Watt	200 g (F1)	215 x 345 x 345 mm	6,3 / 8,7 kg	611-3271
	2 Watt	200 g (F1)	215 x 345 x 345 mm	6,3 / 8,7 kg	611-2279
	2 Watt	200 g (F1)	215 x 345 x 345 mm	6,3 / 8,7 kg	611-3272
	2 Watt	200 g (F1)	215 x 345 x 345 mm	6,4 / 9 kg	611-3460
	1 Watt	100 g (F1)	215 x 345 x 345 mm	4,6 / 6,1 kg	611-2297
	1 Watt	200 g (F1)	215 x 345 x 345 mm	4,6 / 6,1 kg	611-4344
	1 Watt	200 g (F1)	215 x 345 x 345 mm	4,6 / 6,1 kg	611-4346
	2 Watt	200 g (F1)	215 x 345 x 345 mm	6,3 / 8,9 kg	611-3275
	2 Watt	200 g (F1)	215 x 345 x 345 mm	6,1 / 8,7 kg	611-2285
	2 Watt	200 g (F1)	215 x 345 x 345 mm	6,3 / 8,9 kg	611-2287

Model	Interface	Database capacity	Working temperature	Power supply
SE1502	RS232	-	5 - 35 °C	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
SE3102	RS232	-	5 - 35 °C	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
SE4202P	RS232	-	5 - 35 °C	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
SE622	RS232	-	5 - 35 °C	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
SEB2201	NO	-	5 - 35 °C	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
SEB422	NO	-	5 - 35 °C	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
SEC123	RS232	-	5 - 35 °C	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
SEC213	RS232	-	5 - 35 °C	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
SEC313	RS232	-	5 - 35 °C	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
SEC423	RS232	-	5 - 35 °C	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
SM1265DI	RS232	-	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
SM1265DI-ION	RS232	-	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
SM2285DI	RS232	-	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
SM2285DI-ION	RS232	-	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
SM425i	RS232	-	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
SMG1265DI	RS232	99	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
SMG1265DI-ION	RS232	99	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
SMG2285DI	RS232	99	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
SMG2285DI-ION	RS232	99	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
SMG425I	RS232	-	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
TA214I	RS232, USB	3000	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
TA214I	RS232, USB	3000	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
TA214I-ION	RS232, USB	3000	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
TA314I	RS232, USB	3000	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
TA314I	RS232, USB	3000	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
TA414I	RS232, USB	3000	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
TA414I-ION	RS232, USB	3000	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
TA614I	RS232, USB	3000	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
TIS16001	RS232, USB	-	5 - 35 °C	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
TIS32001	RS232, USB	-	5 - 35 °C	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
TP 6202I	RS232, USB	3000	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
TP 6202I	RS232, USB	3000	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
TP16001	RS232, USB	3000	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
TP20001	RS232, USB	-	5 - 35 °C	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
TP2102	RS232, USB	3000	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
TP4202	RS232, USB	3000	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
TP6501	RS232, USB	3000	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
TPW 313I	RS232, USB	3000	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
TPW 523I	RS232, USB	3000	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
TPW 723I	RS232, USB	3000	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
TS 1245DI	RS232, USB	3000	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
TS1265DI-ION	RS232, USB	3000	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
TS2215DI	RS232, USB	3000	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
TS2285DI	RS232, USB	3000	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
TS2285Di-ION	RS232, USB	3000	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA
TS425I	RS232, USB	3000	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 24V 500mA 13VA

	Power consumption (max)	Calibrates with (class)	Balance WxLxH	Net weight / gross weight, approx.	Cat. No.
	1 Watt	200 g (F1)	190 x 255 x 80 mm	1,4 / 2,6 kg	611-2315
	1 Watt	2000 g (F1)	190 x 255 x 80 mm	1,4 / 2,6 kg	611-2316
	1 Watt	2000 g (F1)	190 x 255 x 80 mm	1,4 / 2,6 kg	611-3476
	1 Watt	200 g (F1)	190 x 255 x 80 mm	1,4 / 2,6 kg	611-2602
	1 Watt	1000 g (F1)	190 x 255 x 80 mm	1 / 2 kg	611-2607
	1 Watt	100 g (F1)	190 x 255 x 80 mm	1 / 2 kg	611-3299
	1 Watt	100 g (F1)	190 x 255 x 130 mm	1,6 / 2,7 kg	611-2312
	1 Watt	100 g (F1)	190 x 255 x 130 mm	1,6 / 2,7 kg	611-2313
	1 Watt	200 g (F1)	190 x 255 x 130 mm	1,6 / 2,7 kg	611-2314
	1 Watt	200 g (F1)	190 x 255 x 130 mm	1,6 / 2,7 kg	611-3468
	2 Watt	100 g (E1)	215 x 345 x 345 mm	7 / 9,6 kg	611-3534
	2 Watt	100 g (E1)	215 x 345 x 345 mm	7 / 9,6 kg	611-3800
	2 Watt	200 g (E1)	215 x 345 x 345 mm	7 / 9,6 kg	611-3537
	2 Watt	200 g (E1)	215 x 345 x 345 mm	7 / 9,6 kg	611-3801
	2 Watt	20 g (E1)	215 x 345 x 345 mm	7 / 9,6 kg	611-3547
	2 Watt	100 g (E1)	215 x 345 x 345 mm	7 / 9,6 kg	611-3554
	2 Watt	100 g (E1)	215 x 345 x 345 mm	7 / 9,6 kg	611-3806
	2 Watt	200 g (E1)	215 x 345 x 345 mm	7 / 9,6 kg	611-3557
	2 Watt	200 g (E1)	215 x 345 x 345 mm	7 / 9,6 kg	611-3807
	2 Watt	20 g (E1)	215 x 345 x 345 mm	7 / 9,6 kg	611-3551
	2 Watt	200 g (E2)	215 x 345 x 345 mm	6,6 / 9,2 kg	611-3674
	2 Watt	200 g (E2)	215 x 345 x 345 mm	6,6 / 9,2 kg	611-3674
	2 Watt	200 g (E2)	215 x 345 x 345 mm	6,6 / 9,2 kg	611-3828
	2 Watt	200 g (E2)	215 x 345 x 345 mm	6,7 / 9,3 kg	611-3676
	2 Watt	200 g (E2)	215 x 345 x 345 mm	6,7 / 9,3 kg	611-3676
	2 Watt	200 g (E1)	215 x 345 x 345 mm	7,2 / 9,8 kg	611-3677
	2 Watt	200 g (E1)	215 x 345 x 345 mm	7,2 / 9,8 kg	611-3829
	2 Watt	200 g (E1)	215 x 345 x 345 mm	7,2 / 9,8 kg	611-3679
	1 Watt	2000 g (F1)	360 x 355 x 130 mm	7 / 8,2 kg	611-4539
	1 Watt	2000 g (F1)	360 x 355 x 130 mm	7 / 8,2 kg	611-4540
	2 Watt	2000 g (F1)	215 x 345 x 100 mm	5,2 / 7,2 kg	611-3697
	2 Watt	2000 g (F1)	215 x 345 x 100 mm	5,2 / 7,2 kg	611-3697
	1 Watt	2000 g (F1)	215 x 345 x 100 mm	3,5 / 4,7 kg	611-4339
	1 Watt	2000 g (F1)	215 x 345 x 100 mm	3,5 / 4,7 kg	611-3703
	1 Watt	1000 g (F1)	215 x 345 x 100 mm	3,3 / 4,5 kg	611-3695
	2 Watt	2000 g (F1)	215 x 345 x 100 mm	4,6 / 6,6 kg	611-3696
	1 Watt	2000 g (F1)	215 x 345 x 100 mm	3,5 / 4,7 kg	611-3701
	1 Watt	200 g (F1)	215 x 345 x 155 mm	3,6 / 4,8 kg	611-3688
	2 Watt	200 g (F1)	215 x 345 x 155 mm	4,9 / 6,9 kg	611-3689
	2 Watt	200 g (F1)	215 x 345 x 155 mm	4,9 / 6,9 kg	611-3690
	2 Watt	100 g (E1)	215 x 345 x 345 mm	7 / 9,6 kg	611-3664
	2 Watt	100 g (E1)	215 x 345 x 345 mm	7 / 9,6 kg	611-3811
	2 Watt	200 g (E1)	215 x 345 x 345 mm	7 / 9,6 kg	611-3667
	2 Watt	200 g (E1)	215 x 345 x 345 mm	7 / 9,6 kg	611-3666
	2 Watt	200 g (E1)	215 x 345 x 345 mm	7 / 9,6 kg	611-3812
	2 Watt	20 g (E1)	215 x 345 x 345 mm	7 / 9,6 kg	611-3663

Application specifications

Model	Measuring units	Ioniser	Piece counting	Check weighing	Percentage weight	GLP	Date/time	Statistics	Multi-languages	Formulation	Totalising	Animal weighing	Density determination
IS16001	•		•	•	•						•	•	•
IS32001	•		•	•	•						•	•	•
IS32001.5	•		•	•	•						•	•	•
IS32001D	•		•	•	•						•	•	•
ISG16001	•		•	•	•	•	•		•	•	•	•	•
ISG32001	•		•	•	•	•	•		•	•	•	•	•
ISG32001D	•		•	•	•	•	•		•	•	•	•	•
LA124	•		•	•	•						•	•	•
LA124I	•		•	•	•						•	•	•
LA124I-M	•		•	•	•						•	•	•
LA214	•		•	•	•						•	•	•
LA214I	•		•	•	•						•	•	•
LA214I-M	•		•	•	•						•	•	•
LA254I	•		•	•	•						•	•	•
LA254I-M	•		•	•	•						•	•	•
LA314I	•		•	•	•						•	•	•
LAG214I	•		•	•	•	•	•		•	•	•	•	•
LAG214I-M	•		•	•	•	•	•		•	•	•	•	•
LAG254I-M	•		•	•	•	•	•		•	•	•	•	•
LAG314I	•		•	•	•	•	•		•	•	•	•	•
LAG414I	•		•	•	•	•	•		•	•	•	•	•
LAG514I	•		•	•	•	•	•		•	•	•	•	•
LAG614I	•		•	•	•	•	•		•	•	•	•	•
LP1002	•		•	•	•						•	•	•
LP1002I	•		•	•	•						•	•	•
LP16001	•		•	•	•						•	•	•
LP20001	•		•	•	•						•	•	•
LP2102	•		•	•	•						•	•	•
LP2102I	•		•	•	•						•	•	•
LP3102	•		•	•	•						•	•	•
LP4102I-M	•		•	•	•						•	•	•
LP4202	•		•	•	•						•	•	•
LP4202I	•		•	•	•						•	•	•
LP6202I	•		•	•	•						•	•	•
LP6202I-M	•		•	•	•						•	•	•
LP6501	•		•	•	•						•	•	•
LP8202	•		•	•	•						•	•	•
LPC1203I	•		•	•	•						•	•	•
LPC203	•		•	•	•						•	•	•
LPC503I	•		•	•	•						•	•	•
LPC523I-M	•		•	•	•						•	•	•
LPC723I	•		•	•	•						•	•	•
LPC723I-M	•		•	•	•						•	•	•
LPCG -723I	•		•	•	•	•	•		•	•	•	•	•
LPCG523I-M	•		•	•	•	•	•		•	•	•	•	•
LPCG723I-M	•		•	•	•	•	•		•	•	•	•	•
LPG16001	•		•	•	•	•	•		•	•	•	•	•
LPG20001	•		•	•	•	•	•		•	•	•	•	•
LPG2102I	•		•	•	•	•	•		•	•	•	•	•
LPG3102	•		•	•	•	•	•		•	•	•	•	•
LPG4102I-M	•		•	•	•	•	•		•	•	•	•	•
LPG4202I	•		•	•	•	•	•		•	•	•	•	•
LPG4202I	•		•	•	•	•	•		•	•	•	•	•
LPG6202I	•		•	•	•	•	•		•	•	•	•	•
LPG6501	•		•	•	•	•	•		•	•	•	•	•
LPG8202	•		•	•	•	•	•		•	•	•	•	•
LPGW-2103I	•		•	•	•						•	•	•
LPGW723I-M	•		•	•	•	•	•		•	•	•	•	•
LPW2103I	•		•	•	•						•	•	•
LPW213	•		•	•	•						•	•	•
LPW213I	•		•	•	•						•	•	•
LPW303I	•		•	•	•						•	•	•
LPW423I	•		•	•	•						•	•	•

	Peak hold	Pipette check	Suspended weighing	Database	Temperature profiles	Real time graph	Password protection	Memory	USB	Touch screen	Accumulator	Battery operating	Cat. No.
	●		●						●		○		611-4520
	●		●						●		○		611-4528
	●		●						●		○		611-4529
	●		●						●		○		611-4530
	●		●						●		○		611-4536
	●		●						●		○		611-4537
	●		●						●		○		611-4538
	●												611-2258
	●												611-2261
	●												611-3261
	●												611-2260
	●												611-2263
	●												611-3263
	●												611-2264
	●												611-3264
	●												611-2265
	●			●									611-2269
	●			●									611-3267
	●			●									611-3268
	●			●									611-2271
	●			●									611-3280
	●			●									611-3282
	●			●									611-3457
	●		●								○		611-2298
	●										○		611-2629
	●		●								○		611-2320
	●		●								○		611-2321
	●		●								○		611-2300
	●										○		611-2302
	●		●								○		611-2301
	●		●										611-3277
	●		●								○		611-2319
	●		●										611-2289
	●		●										611-3472
	●		●										611-3296
	●		●								○		611-2308
	●		●										611-3469
	●		●										611-3458
	●		●								○		611-2600
	●		●										611-2274
	●		●										611-3269
	●		●										611-2275
	●		●										611-3270
	●		●										611-2283
	●		●										611-3273
	●		●										611-3274
	●		●	●							○		611-2372
	●		●	●							○		611-2373
	●			●							○		611-2307
	●		●	●							○		611-2306
	●		●	●									611-3278
	●		●	●									611-2291
	●			●							○		611-3475
	●		●	●									611-3474
	●		●	●							○		611-2310
	●		●	●									611-3470
	●		●	●									611-3284
	●		●	●									611-3276
	●		●										611-3283
	●		●								○		611-2610
	●										○		611-2296
	●										○		611-4316
	●										○		611-4317

Model	Measuring units	Ioniser	Piece counting	Check weighing	Percentage weight	GLP	Date/time	Statistics	Multi-languages	Formulation	Totalising	Animal weighing	Density determination
LPW503I	●		●	●	●						●	●	●
LPW523I-M	●		●	●	●						●	●	●
LPW723I	●		●	●	●						●	●	●
LPW723I-M	●		●	●	●						●	●	●
LPWG1203I	●		●	●	●	●	●		●	●	●	●	●
LPWG203I	●		●	●	●	●	●		●	●	●	●	●
LPWG303I	●		●	●	●	●	●		●	●	●	●	●
LPWG423I	●		●	●	●	●	●		●	●	●	●	●
LPWG523I-M	●		●	●	●	●	●		●	●	●	●	●
LPWG723	●		●	●	●	●	●		●	●	●	●	●
LPWG723I	●		●	●	●	●	●		●	●	●	●	●
SE1502	●		●	●	●								●
SE3102	●		●	●	●								●
SE4202P	●		●	●	●								●
SE622	●		●	●	●								●
SEB2201	●		●	●	●								
SEB422	●		●	●	●								
SEC123	●		●	●	●								●
SEC213	●		●	●	●								●
SEC313	●		●	●	●								●
SEC423	●		●	●	●								●
SM1265DI	●		●	●	●						●	●	●
SM1265DI-ION	●	●	●	●	●						●	●	●
SM2285DI	●		●	●	●						●	●	●
SM2285DI-ION	●	●	●	●	●						●	●	●
SM425i	●		●	●	●						●	●	●
SMG1265DI	●		●	●	●	●	●		●	●	●	●	●
SMG1265DI-ION	●	●	●	●	●	●	●		●	●	●	●	●
SMG2285DI	●		●	●	●	●	●		●	●	●	●	●
SMG2285DI-ION	●	●	●	●	●	●	●		●	●	●	●	●
SMG425I	●		●	●	●	●	●		●	●	●	●	●
TA214I	●		●	●	●	●	●	●	●	●	●	●	●
TA214I	●		●	●	●	●	●	●	●	●	●	●	●
TA214I-ION	●	●	●	●	●	●	●	●	●	●	●	●	●
TA314I	●		●	●	●	●	●	●	●	●	●	●	●
TA314I	●		●	●	●	●	●	●	●	●	●	●	●
TA414I	●		●	●	●	●	●	●	●	●	●	●	●
TA414I-ION	●	●	●	●	●	●	●	●	●	●	●	●	●
TA614I	●		●	●	●	●	●	●	●	●	●	●	●
TIS16001	●		●	●	●	●	●	●	●	●	●	●	●
TIS32001	●		●	●	●	●	●	●	●	●	●	●	●
TP 6202I	●		●	●	●	●	●	●	●	●	●	●	●
TP 6202I	●		●	●	●	●	●	●	●	●	●	●	●
TP16001	●		●	●	●	●	●	●	●	●	●	●	●
TP20001	●		●	●	●	●	●	●	●	●	●	●	●
TP2102	●		●	●	●	●	●	●	●	●	●	●	●
TP4202	●		●	●	●	●	●	●	●	●	●	●	●
TP6501	●		●	●	●	●	●	●	●	●	●	●	●
TPW 313I	●		●	●	●	●	●	●	●	●	●	●	●
TPW 523I	●		●	●	●	●	●	●	●	●	●	●	●
TPW 723I	●		●	●	●	●	●	●	●	●	●	●	●
TS 1245DI	●		●	●	●	●	●	●	●	●	●	●	●
TS1265DI-ION	●	●	●	●	●	●	●	●	●	●	●	●	●
TS2215DI	●		●	●	●	●	●	●	●	●	●	●	●
TS2285DI	●		●	●	●	●	●	●	●	●	●	●	●
TS2285Di-ION	●	●	●	●	●	●	●	●	●	●	●	●	●
TS425I	●		●	●	●	●	●	●	●	●	●	●	●

Peak hold	Pipette check	Suspended weighing	Database	Temperature profiles	Real time graph	Password protection	Memory	USB	Touch screen	Accumulator	Battery operating	Cat. No.
●		●										611-2278
●		●										611-3271
●		●										611-2279
●		●										611-3272
●		●	●									611-3460
●			●							○		611-2297
●			●							○		611-4344
●			●							○		611-4346
●		●	●									611-3275
●		●	●									611-2285
●		●	●									611-2287
●		●								○		611-2315
●		●								○		611-2316
●		●								○		611-3476
●		●								○		611-2602
										○	●	611-2607
										○	●	611-3299
●										○		611-2312
●										○		611-2313
●										○		611-2314
●										○		611-3468
●												611-3534
●												611-3800
●												611-3537
●												611-3801
●												611-3547
●			●									611-3554
●			●									611-3806
●			●									611-3557
●			●									611-3807
●												611-3551
●			●			●		●	●			611-3674
●			●			●		●	●			611-3674
●			●			●		●	●			611-3828
●			●			●		●	●			611-3676
●			●			●		●	●			611-3676
●			●			●		●	●			611-3677
●			●			●		●	●			611-3829
●			●			●		●	●			611-3679
●		●	●			●		●	●	○		611-4539
●		●	●			●		●	●	○		611-4540
●		●	●			●		●	●			611-3697
●			●			●		●	●			611-3697
●			●			●		●	●			611-4339
●		●	●			●		●	●	○		611-3703
●			●			●		●	●			611-3695
●			●			●		●	●			611-3696
●			●			●		●	●			611-3701
●			●			●		●	●			611-3688
●			●			●		●	●			611-3689
●			●			●		●	●			611-3690
●			●			●		●	●			611-3664
●			●			●		●	●			611-3811
●			●			●		●	●			611-3667
●			●			●		●	●			611-3666
●			●			●		●	●			611-3812
●			●			●		●	●			611-3663

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