

VWR® for weighing

Lighten the weighing load

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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**

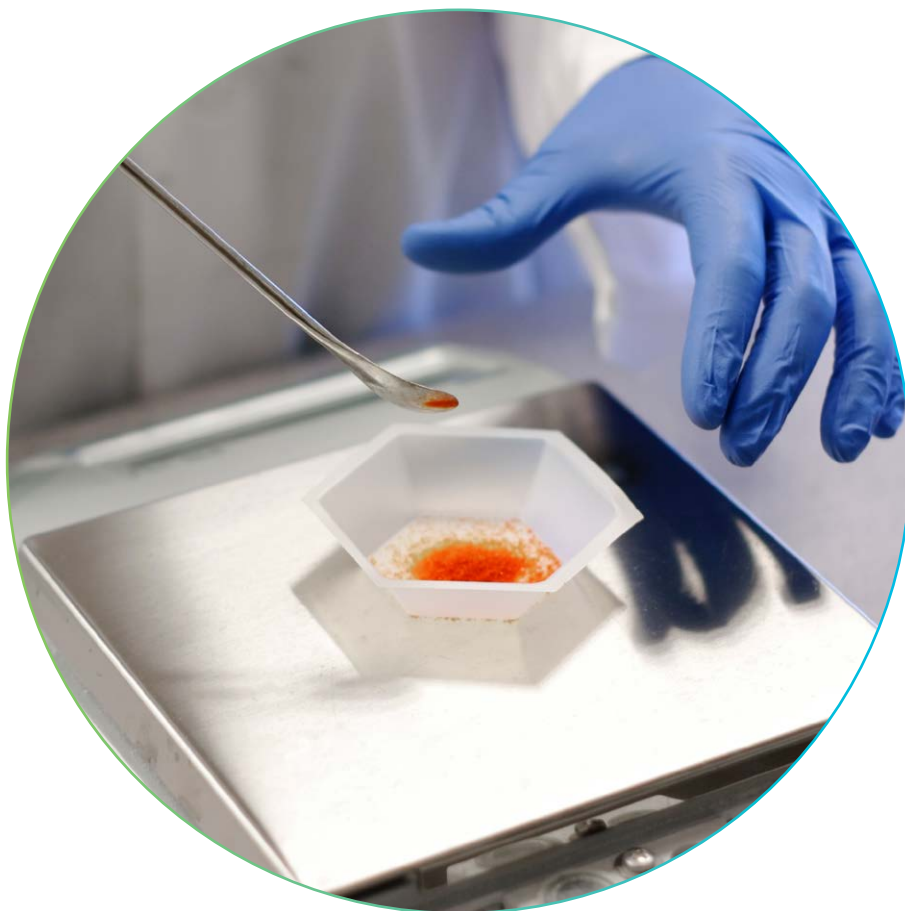


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General information

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



Moisture balances

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



Industrial high capacity balances

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



Industrial platform balances

- Readability d:
 - 0,1 g
 - 1g
- Weighing range from 5 kg to 60kg



Spatula balance

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

Different level of balance

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



Premium Line

A selection of 44 high-level balances for basic applications, with intuitive, wear resistant LED touchscreen to use in research or quality control. These high-quality balances are made from polybutylene terephthalate (PBT) for the housing, which has an excellent chemical resistance. The control unit is made from glass, the glass of the draught shields is specially coated to minimise weighing errors by electrostatically charged samples. The weighing pan is from stainless steel.

Highly accurate results with high-end weighing technology:

- Fast stabilisation time
- Easy to clean and high chemical resistance.
- Future-proof USB type C interface
- Industry-proof RS232 9-pin interface
- Underfloor weighing



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



Explanation of icons: See pages 10-11

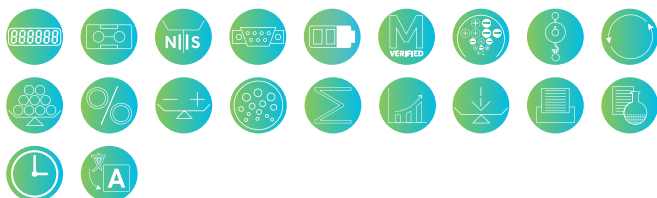


Advanced with large graphic display

- 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



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)





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® premium balances that are delivered with a factory calibration are denoted with a -FC in the product name. The VWR® range is denoted with a 'C' in the product name. The factory calibration certificate 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 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
Max₁:	220g	Max₂:	
Min:	0.01g		-
e₁:	0.001g	e₂:	
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: _____

Automatic internal calibration

VWR® Premium range

The balances denoted by I in the model name have internal "One-Touch-Calibration". The balance will calibrate using the internal weight by pressing the CAL button.



VWR® range

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

- 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

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
TS1265DI	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
TS1265DI-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

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



Ioniser

Description	WxDxH (mm)	Pk	Cat. No.
ION-15A, ioniser for removing static build-up of weighing samples	110x105x45	1	611-3446

Accessories for VWR semi-micro, analytical or
precision balances



YOU OWN:



+

YOU BUY:



=

YOU GET:



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

PANEL WITH IONISER
(611-3864)

UPGRADED LABORATORY
BALANCE WITH AN
EMBEDDED IONISER

Analytical balances

VWR® Premium analytical balances

ANALYTICAL BALANCES, PREMIUM SERIES

A selection of eight high level balances offering high accuracy and repeatability combined with a wear resistant LED touch screen for basic applications in the laboratory, industrial and educational settings.

- Highly accurate results (high-end weighing technology)
- Fast stabilisation times
- Easy to clean with high chemical resistance
- Control panel with high resolution, touch screen functionality and eight language options
- Overload protection
- Future-proof USB type C interface
- Under bench weighing
- Data transfer as PC spreadsheet, PC text and Ascii protocols
- Six built-in applications with GLP/GMP compliant data output: Weighing and dosing, counting, percentage weighing, density determination, mass unit conversion and animal weighing

These high quality balances have a polybutylene terephthalate (PBT) housing, which has excellent chemical resistance. The control unit is made from glass. All Analytical models (PBA) have a glass draft shield with convenient access to the weighing pan. This draft shield is specially coated to minimise weighing errors from electrostatically charged samples. The weighing pan is stainless steel.

Models with internal 'One-Touch-Calibration' are denoted by I in the model name. FC models are supplied with a factory calibration certificate.

Certifications: EN 61326-1:2013, EN 61010-1: 2010, EN 61010-2-010:2014, EN 50581:2012, IEC 60664-1

Order

Balances with external calibration

Model	Weighing capacity (g)	Readability (mg)	Pan/platform size	Cat. No.
PBA124-1S	120	0,1	Ø 90 mm	611-4793
PBA224-1S	220	0,1	Ø 90 mm	611-4797

Balances with external calibration and factory calibration certificate

Model	Weighing capacity (g)	Readability (mg)	Pan/platform size	Cat. No.
PBA124-1S-FC	120	0,1	Ø 90 mm	611-4795
PBA224-1S-FC 2	220	0,1	Ø 90 mm	611-4799



Balances with internal calibration and factory calibration certificate

Model	Weighing capacity (g)	Readability (mg)	Pan/platform size	Cat. No.
PBA124i-1S-FC	120	0,1	Ø 90 mm	611-4796
PBA224i-1S-FC	220	0,1	Ø 90 mm	611-4800

Balances with internal calibration

Model	Weighing capacity (g)	Readability (mg)	Pan/platform size	Cat. No.
PBA124i-1S	120	0,1	Ø 90 mm	611-4794
PBA224i-1S	220	0,1	Ø 90 mm	611-4798

Accessoires

Description	Cat. No.
TX-110 dot printer for balances	611-4790
Data cable RS232 9-pin (male) to USB type A. To connect to a computer via RS232 interface. Length: approx. 1,5 m, Colour: black	611-4920
Data cable USB type C to 611-4918 £25.10 USB type A. To a computer via USB interface. Length: approx. 1,5 m, Colour: black	611-4918
Data cable USB type C to USB type B. To connect to a printer or a second display via USB interface. Length: approx. 1,5 m, Colour: black	611-4919
Kensington security lock cable	611-4916
Power supply with country specific plug-in AC adaptor set (USA, Europe, Great Britain, India, South Africa, Australia and China)	611-4917



VWR® 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
LA614I	610	0,1	Ø 80 mm	611-4281

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

ANALYTICAL BALANCES, ADVANCED WITH GRAPHIC DISPLAY: LAG SERIES

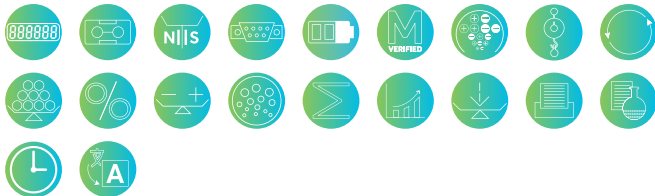
- Allows efficient, easy operation
- Multi-language: EN-DE-FR-IT-ES-PT
- GLP/ISO record keeping of weight values with date, time and serial number
- Ergonomic keypad
- Easy reading

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.
TA214I-P	310	0,1	Ø 80 mm	611-4675
TA214P-PC	310	0,1	Ø 80 mm	611-4676

Explanation of icons: See pages 10-11

Precision balances

Precision balances VWR® Premium Line

PRECISION BALANCES, PREMIUM SERIES

A selection of 36 high level balances offering high accuracy and repeatability combined with easy, intuitive operation and a large touch screen for applications in the laboratory, industrial and educational settings.

- Highly accurate results (high-end weighing technology)
- Fast stabilisation times
- Easy to clean
- High chemical resistance
- Control panel with high resolution, touch screen functionality and eight language options
- Overload protection
- Future-proof USB type C interface
- Under bench weighing
- Data transfer as PC spreadsheet, PC text and Ascii protocols
- Six built-in applications with GLP/GMP compliant data output: Weighing and dosing, counting, percentage weighing, density determination, mass unit conversion and animal weighing

These high-quality balances have a polybutylene terephthalate (PBT) housing, which has excellent chemical resistance. The control unit is made of glass and has intuitive operation and a large touch screen. The weighing pan is stainless steel. All Precision models (PBP 1mg) have a round glass draft shield with convenient access to the weighing pan. This draft shield is specially coated to minimise weighing errors from electrostatically charged samples. Precision models with readability of 10 or 1000 mg do not have draft shields.

Models with internal 'One-Touch-Calibration' are denoted by I in the model name. FC models are supplied with a factory calibration certificate.

Balances with external calibration

Model	Weighing capacity (g)	Readability (mg)	Pan/platform size	Cat. No.
PBP423-1S	420	1	Ø 120 mm	611-4801
PBP623-1S	620	1	Ø 120 mm	611-4805
PBP2202-1S	2200	10	Ø 180 mm	611-4809
PBP4202-1S	4200	10	Ø 180 mm	611-4813
PBP6202-1S	6200	10	Ø 180 mm	611-4817
PBP2201-1S	2200	100	Ø 180 mm	611-4821
PBP5201-1S	5200	100	Ø 180 mm	611-4825
PBP8201-1S	8200	100	Ø 180 mm	611-4829
PBP8200-1S	8200	1000	Ø 180 mm	611-4833



Balances with external calibration and factory calibration certificate

Model	Weighing capacity (g)	Readability (mg)	Pan/platform size	Cat. No.
PBP423-1S-FC	420	1	Ø 120 mm	611-4803
PBP623-1S-FC	620	1	Ø 120 mm	611-4807
PBP2202-1S-FC	2200	10	Ø 180 mm	611-4811
PBP4202-1S-FC	4200	10	Ø 180 mm	611-4815
PBP6202-1S-FC	6200	10	Ø 180 mm	611-4819
PBP2201-1S-FC	2200	100	Ø 180 mm	611-4823
PBP5201-1S-FC	5200	100	Ø 180 mm	611-4827
PBP8201-1S-FC	8200	100	Ø 180 mm	611-4831
PBP8200-1S-FC	8200	1000	Ø 180 mm	611-4835

Balances with internal calibration

Model	Weighing capacity (g)	Readability (mg)	Pan/platform size	Cat. No.
PBP423i-1S	420	1	Ø 120 mm	611-4802
PBP623i-1S	620	1	Ø 120 mm	611-4806
PBP2202i-1S	2200	10	Ø 180 mm	611-4810
PBP4202i-1S	4200	10	Ø 180 mm	611-4814
PBP6202i-1S	6200	10	Ø 180 mm	611-4818
PBP2201i-1S	2200	100	Ø 180 mm	611-4822
PBP5201i-1S	5200	100	Ø 180 mm	611-4826
PBP8201i-1S	8200	100	Ø 180 mm	611-4830
PBP8200i-1S	8200	1000	Ø 180 mm	611-4834

Balances with internal calibration and factory calibration certificate

Model	Weighing capacity (g)	Readability (mg)	Pan/platform size	Cat. No.
PBP423i-1S-FC	420	1	Ø 120 mm	611-4804
PBP623i-1S-FC	620	1	Ø 120 mm	611-4808
PBP2202i-1S-FC	2200	10	Ø 180 mm	611-4812
PBP4202i-1S-FC	4200	10	Ø 180 mm	611-4816
PBP6202i-1S-FC	6200	10	Ø 180 mm	611-4820
PBP2201i-1S-FC	2200	100	Ø 180 mm	611-4824
PBP5201i-1S-FC	5200	100	Ø 180 mm	611-4828
PBP8201i-1S-FC	8200	100	Ø 180 mm	611-4832
PBP8200i-1S-FC	8200	1000	Ø 180 mm	611-4836

Accessoires

Description	Cat. No.
TX-110 dot printer for balances	611-4790
Data cable RS232 9-pin (male) to USB type A. To connect to a computer via RS232 interface. Length: approx. 1,5 m, Colour: black	611-4920
Data cable USB type C to 611-4918 E25.10 USB type A. To connect to a computer via USB interface. Length: approx. 1,5 m, Colour: black	611-4918
Data cable USB type C to USB type B. To connect to a printer or a second display via USB interface. Length: approx. 1,5 m, Colour: black	611-4919
Kensington security lock cable	611-4916
Power supply with country specific plug-in AC adaptor set (USA, Europe, Great Britain, India, South Africa, Australia and China)	611-4917

Precision balances

Precision balances VWR® Line

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 50581:2012

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

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

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
LP2202I	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.
LP4202I-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	4200	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
LP2202	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
LP2202-C	2200	0,01	Ø 160 mm	611-3374
LP3102-C	3100	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

Explanation of icons: See pages 10-11

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.
LPWG213I	210	0,001	Ø 110 mm	611-2297
LPWG313I	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.
LPWG213I-C	210	0,001	Ø 110 mm	611-3381
LPWG313I-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.
LPG2202I	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.
LPG4202I-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
LPG4102I-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
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



TP: Touch screen



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

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.
TP2200	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
TP6501	6500	0,1	195x175 mm	611-3701
TP16001	16000	0,1	195x175 mm	611-4339
TP20001	20000	0,1	195x175 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
TP2202-C	2200	0,01	Ø 160 mm	611-3698
TP4202-C	4200	0,01	Ø 160 mm	611-3699
TP6501-C	6500	0,1	195x175 mm	611-3704
TP20001-C	20000	0,1	195x175 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.
SE422	420	0,01	Ø 110 mm	611-3299
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
SE422-C	420	0,01	Ø 110 mm	611-3860

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	150x140 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	150x140 mm	611-3236

Avantor Services

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

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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

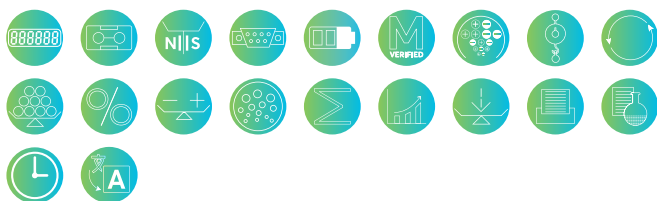
HIGH CAPACITY BALANCES, ADVANCED WITH LARGE GRAPHIC DISPLAY: ISG SERIES

- 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

PLATFORM SCALES

Industrial series of advanced platform scales, offering increased accuracy and fast stabilisation time, combined with easy, intuitive operation and a large graphical screen for laboratory applications and industrial settings. Ideal for weighing, mixing, counting and check weighing.

- Efficient filtering algorithms to deliver quick and accurate results
- Fast stabilisation time
- Easy to clean and high chemical resistance
- Choice of two platform sizes (M-Line 280×280 mm, L-Line 300×400 mm)
- Different column size, for tabletop or ground weighing (M-Line 360 mm, L-Line 660 mm)
- 9 built-in applications with GLP/GMP compliant data output: weighing and dosing - counting - percentage weighing - density determination - measuring units - animal weighing - formulation - totalisation
- GLP/ISO record keeping of weight values with date, time and serial number
- Connectivity RS232 - printer and PC

Certifications: IP Protection Class according to DIN EN 60529: IP 54

Delivery information: Supplied with main adapter and universal plug. Calibration weights are available from Avantor. Please see 'Calibration weights'.

M series model

Model	Weighing capacity (g)	Readability (g)	Pan/platform size	Cat. No.
IS-PMG 3201	3200	0,1	280×280 mm	611-5085
IS-PMG 5201 5	5200	0,1	280×280 mm	611-5086
IS-PMG 6200	6200	1	280×280 mm	611-5088
IS-PMG 10001	10000	0,1	280×280 mm	611-5078
IS-PMG 10000	10000	1	280×280 mm	611-5077
IS-PMG 15001	15000	0,1	280×280 mm	611-5079
IS-PMG 20001	20000	0,1	280×280 mm	611-5081
IS-PMG 20000	20000	1	280×280 mm	611-5080

L series model

Model	Weighing capacity (g)	Readability (g)	Pan/platform size	Cat. No.
S-PLG 35001	35000	0,1	300×400 mm	611-5074
IS-PLG 10000	10000	1	300×400 mm	611-5069
IS-PLG 20000	20000	1	300×400 mm	611-5071
IS-PLG 60000	60000	1	300×400 mm	611-5075

Accessoires

Description	Cat. No.
TX-110 dot printer for balances	611-4790
Spare AC/DC power adapter for 9 V supplied balances	611-3790
Serial RS232 to USB converter	611-2786
Serial cable	611-2787
Complete communication kit with i-Weight software to connect a balance to a computer. Enables data collection, statistics, graphs and exports results to Excel. Functions: Piece counting, Density, Peak hold, Limits set. OS: Windows 7, 8, 10 (32&64). Note not suitable for use with balances with touchscreen displays or moisture analysers	611-3824



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.
TA214I-P	220	0,1	Ø 80 mm	611-4675
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
TA214I-PC	220	0,1	Ø 80 mm	611-4676

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 $\pm 0,2$ g or 0,25% in the level position
- Traceable® certificate (indicates traceability to standards provided by NIST)

Spoon volume: 32 ml

WxDxH: 230x30x15 mm

Weight: 85 g

Supplied with Traceable® certificate and 2x 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

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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QUOTE



PB20061-EN

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



Moisture analysers with graphic display, MBG series



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.

Model	MBG 62	MBG 163L	MBG 64M	MBG 62	MBG 163L	MBG 64M
Capacity	60 g	160 g	60 g	160 g	60 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)					
WxDxH	215x345x235 mm					
Weight	4,7 kg	6,1 kg	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	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

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.

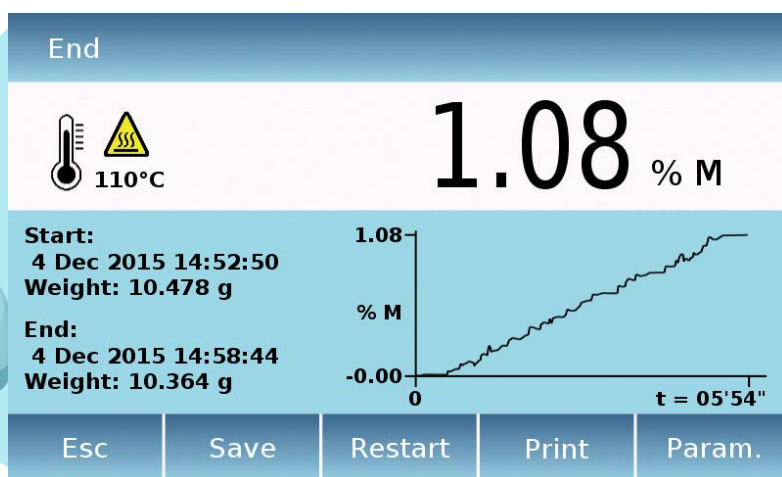
MB 163L features a high resolution load cell weighing system with a drying resolution.

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 (g)	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: WxDxH: 370x480x150 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



DOT PRINTER FOR VWR BALANCES

The TX-110 provides high speed dot printing and features a 184×64 OLED display.

- Printouts are suitable for long-term preservation
- ISO/GLP compliant data printout
- Built-in real-time clock
- Sample name and batch number can be input and printed
- Sum, mean and formulation function

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

Description	Cat. No.
TX-110 dot printer for balances	611-4790
Paper roll for dot printer	611-4791



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 FOR MOISTURE BALANCES

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 - Communication 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)

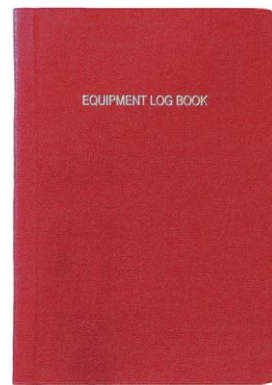
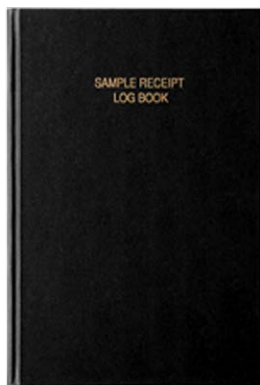
Not compatible with moisture analyser.

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 (l)	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

Laser engraving
improving the
legibility of
markings





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 OIML 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

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 ($\pm$ 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 ($\pm$ 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
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 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



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 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
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 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

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
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 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

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 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
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	611-8469
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

Weight set	No. of weights	Total weight (g)	Pk	Cat. No.
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
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
1 g - 10 kg	17	21110	1	611-4935
1 mg - 10 kg	29	21111,11	1	611-4941

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 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
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
1 g - 10 kg	17	21110	1	611-4936
1 mg - 10 kg	29	21111,11	1	611-4942

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 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
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
1 g - 10 kg	17	21110	1	611-4937
1 mg - 10 kg	29	21111,11	1	611-4943

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/cm³).

- 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.

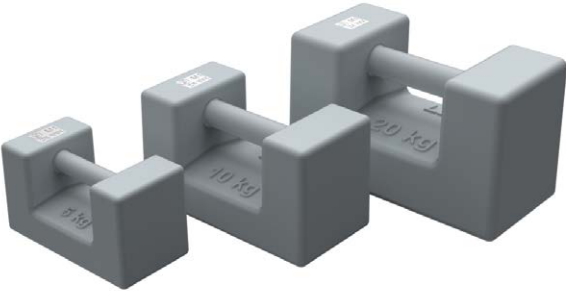
Weight (kg)	Tolerance (± mg)	Type	Pk	Cat. No.
5	250	Without certificate	1	611-8298
10	500	Without certificate	1	611-8299
20	1000	Without certificate	1	611-8300
50	2500	Without certificate	1	611-8323
5	250	With certificate	1	611-8324
10	500	With certificate	1	611-8325
20	1000	With certificate	1	611-8326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

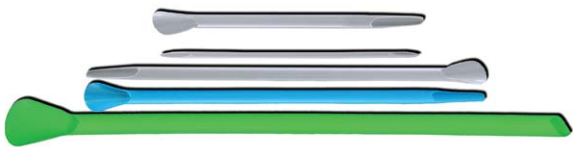


SCHOOL WEIGHTS

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.

WxDxH (mm)	Pk	Cat. No.
90x90x7	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)	WxDxH (mm)	Colour	Pk	Cat. No.
Standard				
5	55x35x6	White	500	611-1993
5	55x35x6	Black	500	611-1996
25	80x50x14	White	500	611-0097
25	80x50x14	Black	500	611-9184
30	80x60x14	White	500	611-9161
30	80x60x14	Black	500	611-9185
100	125x100x19	White	500	611-9162
100	125x100x19	Black	500	611-9186
Anti-static				
5	55x35x6	White	500	611-1994
5	55x35x6	Black	500	611-1995
25	71x46x14	White	500	611-9187
25	80x50x14	Black	500	611-9190
30	80x60x14	White	500	611-9188
30	80x60x14	Black	500	611-9191
100	125x100x19	White	500	611-9189
100	125x100x19	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)	WxDxH (mm)	Colour	Pk	Cat. No.
Standard				
7	46x46x8	Blue	500	611-9168
7	46x46x8	Black	500	611-9175
7	46x46x8	White	500	611-0093
100	85x85x24	Blue	500	611-9169
100	85x85x24	Black	500	611-9176
100	85x85x24	White	500	611-0094
250	140x140x22	Blue	500	611-9170
250	140x140x22	Black	500	611-9177
250	140x140x22	White	500	611-0095
Anti-static				
7	46x46x8	Blue	500	611-3113
7	46x46x8	Black	500	611-9181
7	46x46x8	White	500	611-9178
100	85x85x24	Blue	500	611-3114
100	85x85x24	Black	500	611-9182
100	85x85x24	White	500	611-9179
250	140x140x22	Blue	500	611-3115
250	140x140x22	Black	500	611-9183
250	140x140x22	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
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Description	WxDxH (mm)	Colour	Pk	Cat. No.
FSC® Certified	35x35x15	White	500	611-3258
FSC® Certified	35x35x15	Brown	500	611-3256
FSC® Certified	45x45x15	White	500	611-3259
FSC® Certified	45x45x15	Brown	500	611-3257
FSC® Certified	92x92x25	White	250	611-3625
FSC® Certified	92x92x25	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	WxDxH (mm)	Colour	Pk	Cat. No.
Standard				
Small	43x58x13	White	500	611-9163
Medium	83x132x26	White	500	611-9164
Large	108x183x26	White	500	611-9165
Anti-static				
Small	43x58x13	White	500	611-3116
Medium	83x132x26	White	500	611-3117
Large	108x183x26	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.ØxH (mm)	Pk	Cat. No.
44x13	100	611-1374
63x18	100	611-1373
65x30	100	611-1376
110x29	50	611-1377
180x25	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

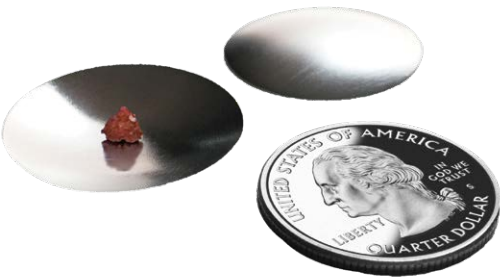


DISPOSABLE MICRO WEIGHING DISHES

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)	WxDxH	Int.ØxH (mm)	Pk	Cat. No.
Round form				
0,035		6x2,5	250	611-1355
0,35		13x3,5	100	611-1356
Oval form				
0,04	6,5x3,5x2,5		250	611-1357
0,11	10x4x4,5		250	611-1358
0,12	12x2x4,5		250	611-1361
0,12	12x4x2,7		250	611-1360
1,12	25x7x7		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/m ²	0,06	250	516-0318

Specifications

balances overview

Technical specifications VWR® Line Premium Line

Model		PBA2224*	PBA124*	PBP623*	PBP423*
Readability Scale interval (d)	mg	0,1	0,1	1	1
Maximum capacity (Max)	g	220	120	620	420
Weighing system Balances with internal weight		EMC	EMC	EMC	EMC
Weighing system Balances with external weight		EMC	EMC	EMC	EMC
Repeatability at approx. maximum load, typical value	± mg	0,1	0,1	1	1
Linearity deviation limits Balances with internal weight	± mg	0,2	0,2	2	2
Linearity deviation limits					
Balances with external weight	± mg	0,2	0,2	2	2
Sensitivity drift between +10 °C and +30 °C					
Balances with internal weight	± ppm/K	1,5	1,5	2	2
Sensitivity drift between +10 °C and +30 °C					
Balances with external weight	± ppm/K	1,5	1,5	2	2
Tare maximum capacity (subtractive)		<100% of maximum capacity			
Typical measurement time	s	≤2,0	≤2,0	≤1,5	≤1,5
Recommended calibration weight	g	200	100	500	200
Accuracy class in accordance with OIML R111-1		E2	E2	F1	F1
Weighing pan size	mm	Ø 90	Ø 90	Ø 120	Ø 120
Weighing chamber height*	mm	240	240	50	50
Net weight approx. Balances with internal weight,	kg	6,20	6,20	4,80	4,80
Net weight approx. Balances with internal weight,	kg	5,90	5,90	4,50	4,50
Gross weight approx. Balances with external weight	kg	8,00	8,00	6,20	6,20
Net weight approx. Balances with external weight,	kg	7,70	7,70	5,80	5,80

* Upper edge of the weighing pan to the lower edge of the upper draft shield panel

Technical specifications VWR® Line

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
	0,1 mg <310 g		
LAG414I	0,3 mg 310 g...410 g	± 0,0005 g	10 mg
	0,1 mg <310 g		
LAG514I	0,3 mg 310 g...510 g	± 0,0005 g	10 mg
	0,1 mg <310 g		
LAG614I	0,3 mg 310 g...610 g	± 0,0006 g	10 mg

PBP6202*	PBP4202*	PBP2202*	PBP8201*	PBP5201*	PBP2201*	PBP8200*
10	10	10	100	100	100	1000
6200	4200	2200	8200	5200	2200	8200
EMC	EMC	EMC	EMC	EMC	EMC	EMC
EMC	EMC	Strain gauge	Strain gauge	Strain gauge	Strain gauge	Strain gauge
10	10	10	100	100	100	1,000
20	20	20	100	100	100	1,000
20	20	20	300	300	300	1,000
2	2	2	4	2	2	4
2	2	3,5	7	7	7	7
≤1,0	≤1,0	≤1,0	≤1,0	≤1,0	≤1,0	≤1,0
5.000	2.000	2.000	5.000	5.000	2.000	5.000
F1	F1	F1	F2	F2	F2	F2
Ø 180	Ø 180	Ø 180	Ø 180	Ø 180	Ø 180	Ø 180
-	-	-	-	-	-	-
6,00	6,00	6,00	6,00	6,00	6,00	6,00
4,40	4,40	4,10	3,90	3,90	3,90	3,90
6,80	6,80	6,80	6,80	6,80	6,80	6,80
5,20	5,20	4,90	4,70	4,70	4,70	4,70

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

Model	Repeatability (std. dev.)	Linearity deviation	Minimum load (verified balances)
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
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

Tare range (subtractive)	Response time (typical)	Span drift in +10...+30°C	Cat. No.
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
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

Model	Repeatability (std. dev.)	Linearity deviation	Minimum load (verified balances)
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
TIS1600I	0,05 g	± 0,3 g	20 g
TIS3200I	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
TP1600I	0,08 g	± 0,3 g	20 g
TP2000I	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
TP650I	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

Model	Interface	Database capacity	Working temperature	Power supply
IS1600I	RS232	-	5 - 35 °C	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
IS3200I	RS232	-	5 - 35 °C	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
IS3200I.5	RS232	-	5 - 35 °C	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
IS3200ID	RS232	-	5 - 35 °C	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
ISG1600I	RS232	-	5 - 35 °C	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
ISG3200I	RS232	-	5 - 35 °C	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
ISG3200ID	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
LP1600I	RS232	-	5 - 35 °C	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
LP2000I	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
LP650I	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
LPG1600I	RS232	99	5 - 35 °C	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
LPG2000I	RS232	99	5 - 35 °C	110-230Vac. 50/60Hz, output 9V 1,2A 10VA

	Tare range (subtractive)	Response time (typical)	Span drift in +10...+30°C	Cat. No.
	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

	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

Model	Interface	Database capacity	Working temperature	Power supply
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
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
TIS1600I	RS232, USB	-	5 - 35 °C	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
TIS3200I	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
TP1600I	RS232, USB	3000	5 - 35 °C (15-30 °C for verified models)	110-230Vac. 50/60Hz, output 9V 1,2A 10VA
TP2000I	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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
TS2285DI	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	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
	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

VWR® Premium Line

Model	Measuring units	Ioniser	Piece counting	Check weighing	Percentage weight	GLP	Date/time	Statistics	Multi-languages	Formulation	Totalising	Animal weighing	Density determination
All premium models	•		•		•	•	•		•			•	•

VWR® Line

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	•		•	•	•	•	•		•	•	•	•	•

	Peak hold	Pipette check	Suspended weighing	Database	Temperature profiles	Real time graph	Password protection	Memory	USB	Touch screen	Accumulator	Battery operating	Cat. No.
			•						•	•			All models
	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
	•												611-2264
	•												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

Model	Measuring units	Ioniser	Piece counting	Check weighing	Percentage weight	GLP	Date/time	Statistics	Multi-languages	Formulation	Totalising	Animal weighing	Density determination	
LPG3102	•		•	•	•	•	•		•	•	•	•	•	
LPG4102I-M	•		•	•	•	•	•		•	•	•	•	•	
LPG4202I	•		•	•	•	•	•		•	•	•	•	•	
LPG4202I	•		•	•	•	•	•		•	•	•	•	•	
LPG6202I	•		•	•	•	•	•		•	•	•	•	•	
LPG6501	•		•	•	•	•	•		•	•	•	•	•	
LPG8202	•		•	•	•	•	•		•	•	•	•	•	
LPGW-2103I	•		•	•	•						•	•	•	
LPGW723I-M	•		•	•	•	•	•		•	•	•	•	•	
LPW2103I	•		•	•	•						•	•	•	
LPW213	•		•	•	•						•	•	•	
LPW213I	•		•	•	•						•	•	•	
LPW303I	•		•	•	•						•	•	•	
LPW423I	•		•	•	•						•	•	•	
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.
	•		•	•							○		611-2306
	•		•	•									611-3278
	•		•	•									611-2291
	•			•							○		611-3475
	•		•	•									611-3474
	•		•	•							○		611-2310
	•		•	•									611-3470
	•		•	•									611-3284
	•		•	•									611-3276
	•		•										611-3283
	•		•								○		611-2610
	•										○		611-2296
	•										○		611-4316
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	•		•										611-2278
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	•		•	•									611-3460
	•			•							○		611-2297
	•			•							○		611-4344
	•			•							○		611-4346
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	•		•	•									611-2285
	•		•	•									611-2287
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	•		•								○		611-3476
	•		•								○		611-2602
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											○	•	611-3299
	•										○		611-2312
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	•										○		611-2314
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	•												611-3800
	•												611-3537
	•												611-3801
	•												611-3547
	•			•									611-3554
	•			•									611-3806
	•			•									611-3557
	•			•									611-3807
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	•			•			•		•	•			611-3697
	•			•			•		•	•			611-4339
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[illegible]

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