

VWR® balances and accessories premium line

- 01. BEST PRICE/QUALITY RATIO
- 02. EASY & EFFICIENT
- 03. CONNECTIVITY





VWR® balances and accessories 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

- 6 built-in applications with GLP/GMP compliant data output: Weighing & dosing – counting – percentage weighing – density determination – mass unit conversion – animal weighing.
- The balance menu is available in the following 8 languages : English, French, German, Italian, Polish, Portuguese, Spanish, Russian
- All models come with one USB type C and one RS232 9-pin interface, available data transfer protocols are PC spreadsheet protocol, PC text protocol or Ascii protocols

The balances denoted by I in the model name have internal "One-Touch-Calibration".

The balances denoted by FC in the model name are delivered with a factory certificate.

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

Technical specifications



| Model | | PBA224* | PBA124* | PBP623* | PBP423* | PBP6202* | PBP4202* | PBP2202* | PBP8201* | PBP5201* | PBP2201* | PBP8200* |
|---|---------|---------------------------|---------|---------|---------|----------|----------|--------------|--------------|--------------|--------------|--------------|
| Readability Scale interval (d) | mg | 0,1 | 0,1 | 1 | 1 | 10 | 10 | 10 | 100 | 100 | 100 | 1000 |
| Maximum capacity (Max) | g | 220 | 120 | 620 | 420 | 6200 | 4200 | 2200 | 8200 | 5200 | 2200 | 8200 |
| Weighing system | | | | | | | | | | | | |
| Balances with internal weight | | EMC | EMC | EMC | EMC | EMC | EMC | EMC | EMC | EMC | EMC | EMC |
| Weighing system | | | | | | | | | | | | |
| Balances with external weight | | EMC | EMC | EMC | EMC | EMC | EMC | Strain gauge | Strain gauge | Strain gauge | Strain gauge | Strain gauge |
| Repeatability at approx. | | | | | | | | | | | | |
| maximum load, typical value | ± mg | 0,1 | 0,1 | 1 | 1 | 10 | 10 | 10 | 100 | 100 | 100 | 1,000 |
| Linearity deviation limits | | | | | | | | | | | | |
| Balances with internal weight | ± mg | 0,2 | 0,2 | 2 | 2 | 20 | 20 | 20 | 100 | 100 | 100 | 1,000 |
| Linearity deviation limits | | | | | | | | | | | | |
| Balances with external weight | ± mg | 0,2 | 0,2 | 2 | 2 | 20 | 20 | 20 | 300 | 300 | 300 | 1,000 |
| Sensitivity drift between | | | | | | | | | | | | |
| +10 °C and +30 °C | | | | | | | | | | | | |
| Balances with internal weight | ± ppm/K | 1,5 | 1,5 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 4 |
| Sensitivity drift between | | | | | | | | | | | | |
| +10 °C and +30 °C | | | | | | | | | | | | |
| Balances with external weight | ± ppm/K | 1,5 | 1,5 | 2 | 2 | 2 | 2 | 3,5 | 7 | 7 | 7 | 7 |
| Tare maximum capacity (subtractive) | | | | | | | | | | | | |
| | | <100% of maximum capacity | | | | | | | | | | |
| Typical measurement time | s | ≤2,0 | ≤2,0 | ≤1,5 | ≤1,5 | ≤1,0 | ≤1,0 | ≤1,0 | ≤1,0 | ≤1,0 | ≤1,0 | ≤1,0 |
| Recommended calibration weight | g | 200 | 100 | 500 | 200 | 5.000 | 2.000 | 2.000 | 5.000 | 5.000 | 2.000 | 5.000 |
| Accuracy class in accordance with OIML R111-1 | | | | | | | | | | | | |
| | | E2 | E2 | F1 | F1 | F1 | F1 | F1 | F2 | F2 | F2 | F2 |
| Weighing pan size | mm | Ø 90 | Ø 90 | Ø 120 | Ø 120 | Ø 180 | Ø 180 | Ø 180 | Ø 180 | Ø 180 | Ø 180 | Ø 180 |
| Weighing chamber height* | mm | 240 | 240 | 50 | 50 | - | - | - | - | - | - | - |
| Net weight approx. | | | | | | | | | | | | |
| Balances with internal weight, | kg | 6,20 | 6,20 | 4,80 | 4,80 | 6,00 | 6,00 | 6,00 | 6,00 | 6,00 | 6,00 | 6,00 |
| Net weight approx. | | | | | | | | | | | | |
| Balances with internal weight, | kg | 5,90 | 5,90 | 4,50 | 4,50 | 4,40 | 4,40 | 4,10 | 3,90 | 3,90 | 3,90 | 3,90 |
| Gross weight approx. | | | | | | | | | | | | |
| Balances with external weight | kg | 8,00 | 8,00 | 6,20 | 6,20 | 6,80 | 6,80 | 6,80 | 6,80 | 6,80 | 6,80 | 6,80 |
| Net weight approx. | | | | | | | | | | | | |
| Balances with external weight, | kg | 7,70 | 7,70 | 5,80 | 5,80 | 5,20 | 5,20 | 4,90 | 4,70 | 4,70 | 4,70 | 4,70 |

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

Models



| Model | Weighing cap (g) | Readability (mg) | Internal Calibration weight | Factory Calibration Certificate | Draught shield | Cat. No. |
|----------------|------------------|------------------|-----------------------------|---------------------------------|----------------|----------|
| PBA224I-1S | 220 | 0.1 | Yes | No | 3 door | 611-4798 |
| PBA124I-1S | 120 | 0.1 | Yes | No | 3 door | 611-4794 |
| PBA224I-1S-FC | 220 | 0.1 | Yes | Yes | 3 door | 611-4800 |
| PBA124I-1S-FC | 120 | 0.1 | Yes | Yes | 3 door | 611-4796 |
| PBA224-1S | 220 | 0.1 | No | No | 3 door | 611-4797 |
| PBA124-1S | 120 | 0.1 | No | No | 3 door | 611-4793 |
| PBA224-1S-FC | 220 | 0.1 | No | Yes | 3 door | 611-4799 |
| PBA124-1S-FC | 120 | 0.1 | No | Yes | 3 door | 611-4795 |
| PBP623I-1S | 620 | 1 | Yes | No | Circular | 611-4806 |
| PBP423I-1S | 420 | 1 | Yes | No | Circular | 611-4802 |
| PBP623I-1S-FC | 620 | 1 | Yes | Yes | Circular | 611-4808 |
| PBP423I-1S-FC | 420 | 1 | Yes | Yes | Circular | 611-4804 |
| PBP623-1S | 620 | 1 | No | No | Circular | 611-4805 |
| PBP423-1S | 420 | 1 | No | No | Circular | 611-4801 |
| PBP623-1S-FC | 620 | 1 | No | Yes | Circular | 611-4807 |
| PBP423-1S-FC | 420 | 1 | No | Yes | Circular | 611-4803 |
| PBP6202I-1S | 6.200 | 10 | Yes | No | - | 611-4818 |
| PBP4202I-1S | 4.200 | 10 | Yes | No | - | 611-4814 |
| PBP2202I-1S | 2.200 | 10 | Yes | No | - | 611-4810 |
| PBP8201I-1S | 8.200 | 100 | Yes | No | - | 611-4830 |
| PBP5201I-1S | 5.200 | 100 | Yes | No | - | 611-4826 |
| PBP2201I-1S | 2.200 | 100 | Yes | No | - | 611-4822 |
| PBP8200I-1S | 8.200 | 1000 | Yes | No | - | 611-4834 |
| PBP6202I-1S-FC | 6200 | 10 | Yes | Yes | - | 611-4820 |
| PBP4202I-1S-FC | 4200 | 10 | Yes | Yes | - | 611-4816 |
| PBP2202I-1S-FC | 2200 | 10 | Yes | Yes | - | 611-4812 |
| PBP8201I-1S-FC | 8200 | 100 | Yes | Yes | - | 611-4832 |
| PBP5201I-1S-FC | 5200 | 100 | Yes | Yes | - | 611-4828 |
| PBP2201I-1S-FC | 2200 | 100 | Yes | Yes | - | 611-4824 |
| PBP8200I-1S-FC | 8200 | 1000 | Yes | Yes | - | 611-4836 |
| PBP6202-1S | 6200 | 10 | No | No | - | 611-4817 |
| PBP4202-1S | 4200 | 10 | No | No | - | 611-4813 |
| PBP2202-1S | 2200 | 10 | No | No | - | 611-4809 |
| PBP8201-1S | 8200 | 100 | No | No | - | 611-4829 |
| PBP5201-1S | 5200 | 100 | No | No | - | 611-4825 |
| PBP2201-1S | 2200 | 100 | No | No | - | 611-4821 |
| PBP8200-1S | 8200 | 1000 | No | No | - | 611-4833 |
| PBP6202-1S-FC | 6200 | 10 | No | Yes | - | 611-4819 |
| PBP4202-1S-FC | 4200 | 10 | No | Yes | - | 611-4815 |
| PBP2202-1S-FC | 2200 | 10 | No | Yes | - | 611-4811 |
| PBP8201-1S-FC | 8200 | 100 | No | Yes | - | 611-4831 |
| PBP5201-1S-FC | 5200 | 100 | No | Yes | - | 611-4827 |
| PBP2201-1S-FC | 2200 | 100 | No | Yes | - | 611-4823 |
| PBP8200-1S-FC | 8200 | 1000 | No | Yes | - | 611-4835 |

Laser engraving improving the legibility of markings



Z X 000

Year of manufacturing

Number incremented by nominal mass

Calibration weights for premium line

VWR offers a large range of calibration weights delivered with or without an accredited calibration certificate. The weights are made from solid, anti-magnetic, polished stainless steel.

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

Certifications: Conform to OIML R111 recommendations

- 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

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

For the complete portfolio see our chapter on calibration weights or visit our website (<https://uk.vwr.com/store/category/weights/600732?supplierFilter=VWRI>)



WEIGHTS FOR PBA AND PBP BALANCES:

| Class | Weighing (g) | Tolerance | Box | Certificate | Cat. No. |
|-------|--------------|-----------|---------|-------------|----------|
| E2 | 100 | 0,16 ± mg | Plastic | No | 611-8116 |
| E2 | 100 | 0,16 ± mg | Plastic | Yes | 611-8146 |
| E2 | 200 | 0,30 ± mg | Plastic | No | 611-8117 |
| E2 | 200 | 0,30 ± mg | Plastic | Yes | 611-8147 |
| F1 | 200 | 1,0 ± mg | Plastic | No | 611-8217 |
| F1 | 200 | 1,0 ± mg | Plastic | Yes | 611-8247 |
| F1 | 500 | 2,5 ± mg | Wood | yes | 611-8040 |
| F1 | 500 | 2,5 ± mg | Plastic | No | 611-8218 |
| F1 | 500 | 2,5 ± mg | Plastic | Yes | 611-8248 |
| F1 | 2000 | 10 ± mg | Wood | Yes | 611-8042 |
| F1 | 2000 | 10 ± mg | Plastic | No | 611-8220 |
| F1 | 2000 | 10 ± mg | Plastic | Yes | 611-8250 |
| F1 | 5000 | 25 ± mg | Wood | Yes | 611-8049 |
| F1 | 5000 | 25 ± mg | Plastic | No | 611-8221 |
| F1 | 5000 | 25 ± mg | Plastic | Yes | 611-8251 |

ACCESSORIES FOR PREMIUM LINE

| Description | Cat. No. |
|---|----------|
| Dot Printer TTX-110: high speed dot printing, 184x64 OLED display | 611-4790 |
| Density kit for analytical balances | 611-2675 |
| Dust cover for balances with analytical draft shield | 630-0876 |
| Anti-theft cable | 611-4916 |
| Power supply | 611-4917 |
| Date cable USB type C to USB type A | 611-4918 |
| Date cable USB type C to USB type B | 611-4919 |
| Data cable RS232 9-PIN M to USB type A | 611-4920 |

A blue-tinted background image showing several spherical cells, likely microorganisms or cells, with intricate internal structures visible. The cells are scattered across the frame, with some in sharp focus and others blurred in the background.

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