

The New Practum®

Start Weighing Right.

Laboratory Balances



- Unmatched reliability with the world-class weighing instrument
- Made in Germany
- Overload protection for years of reliability
- Supervisor Lock
- Fast and easy data transfer

AC Adapter

Sartorius AC adaptor module	6971790 with interchangeable country-specific plug-in AC adaptors
Primary	100 – 240 V~, -10% +10%, 50 – 60 Hz, 0.2 A
Secondary	15 V DC, ± 5%, 530 mA (max.) 8 Watt (max.): 0 to +40°C and 15 V DC, ± 5%, 330 mA (max.) 5 Watt (max.): 0 to +50°C
Other data	protection class II, in accordance with EN IEC 60950-1 up to 3000 m above sea level; IP40 as per EN IEC 60529

Balance

Power supply	only via Sartorius AC adaptor module 6971790
Input voltage	12.0 ... 18.0 V DC
Power consumption	2 W (typically)

Ambient Conditions

The specifications apply when the following ambient conditions are in place:

Environment	for indoor use only
Ambient temperature	+10°C to +30°C
Operational capacity	guaranteed between +5°C and +45°C +45 °C
Storage and shipping	-10 °C to +60 °C
Elevation	up to 3000 m above sea level
Relative humidity	15% to 80% for temperatures up to 31°C; non-condensing, decreasing linearly to 50% relative humidity at 40°C and 20% at 50°C

Safety of electrical equipment	in accordance with EN 61010-1/IEC 61010-1 Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 1: General requirements
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Electromagnetic compatibility	in accordance with EN 61326-1/IEC 61326-1 Electrical equipment for measurement, control, and laboratory use – EMC requirements – Part 1: General requirements
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Defined immunity to interference	Suitable for use in industrial areas
Interference emission	Class B (suitable for use in residential areas and areas that are connected to a low voltage network that also supplies residential buildings). The device can therefore be used in both areas.

Technical Specifications

Standard Equipment

Levelling	Glass level indicator with air bubble for centering
Calibration	External calibration
Selectable weight units	Gram, kilogram, carat, pound, ounce, troy ounce, Hong Kong tael, Singapore tael, Taiwan tael, grain, pennyweights, milligram, parts per pound, China tael, mommes, Austrian carat, tola, baht, mesghal and Newton
Interface	mini USB – Automatic recognition of Sartorius printer models YDP30 or YDP40 – Direct data transfer to Microsoft® Windows programs – Programmable interval for data output – Data transfer protocols SBI, xBPI, table format, text format
Display	Touch screen with Sartorius graphical user interface
Standard built-in applications	Weighing, Density, Percentage, Checkweighing, Peak Hold, Counting, Unstable Conditions
Languages	English, German, French, Spanish, Italian, Russian, Chinese, Polish, Japanese, Portuguese
Protection	– Rugged, easy-to-clean housing – In-use cover – Dust cover for analytical balances
Password protection	Supervisor lock for protection against unintentional changes
Anti-theft lock	Kensington lock and lockdown capability for cable or chain
Underfloor weighing	Integrated



Analytical Balances Practum®

Model		224	124
Weighing capacity	g	220	120
Readability	mg	0.1	0.1
Repeatability (standard deviation)	mg	0.1	0.1
Linearity deviation	mg	0.3	0.3
Sensitivity drift between +10 and +30°C	± ppm/K	3	3
Typical stabilization time	s	4	4
Weighing pan size	mm	Ø 90	Ø 90
Weighing chamber height	mm	209	209
Net weight, approx.	kg	4.5	4.5
Dimensions, D × W × H	mm Inch	360 × 216 × 320 14.1 × 8.5 × 12.6	

Precision Balances Practum®

Model		313	213	2102	1102	612	5101	5100
Weighing capacity	g	310	210	2100	1100	610	5100	5100
Readability	mg	1	1	10	10	10	100	1000
Repeatability (standard deviation)	mg	1	1	10	10	10	100	1000
Linearity deviation	mg	3	3	30	30	30	300	1000
Sensitivity drift between +10 and +30°C	± ppm/K	5	5	5	5	5	10	10
Typical stabilization time	s	3	3	3	3	3	3	3
Weighing pan size	mm	Ø 120	Ø 120	Ø 180	Ø 180	Ø 180	Ø 180	Ø 180
Weighing chamber height	mm	209	209	–	–	–	–	–
Net weight, approx.	kg	4.9	4.9	3.1	3.1	3.1	3.1	3.1
Dimensions, D × W × H	mm Inch	360 × 216 × 320 14.1 × 8.5 × 12.6			360 × 216 × 95 14.1 × 8.5 × 3.75			

Optional Accessories

Printers and Communications

Premium GLP Laboratory Printer	YDP30
- Printer paper for GLP laboratory printer	69Y03285
- Endless labels for GLP laboratory printer	69Y03286
Standard Laboratory Printer	YDP40
- Printer paper for standard laboratory printer	69Y03287
Data Cable Mini USB USB A	YCC04-D09
Date Cable Mini USB RS232 9-pin	YCC03-D09

General

Battery Pack for Standard Lab Balances	YRB11Z
Draft ring for analytical balances	YDS01SQP
In-use cover for analytical balances	6960SE01
In-use cover for precision balances	6960SE02
Dust cover for analytical balances with draft shield	6960SE03

Density Determination

Density kit for analytical balances	YDK03
Density kit for precision balances - for lab balance model 2102; 1102; 612	YDK04

Calibration Weights

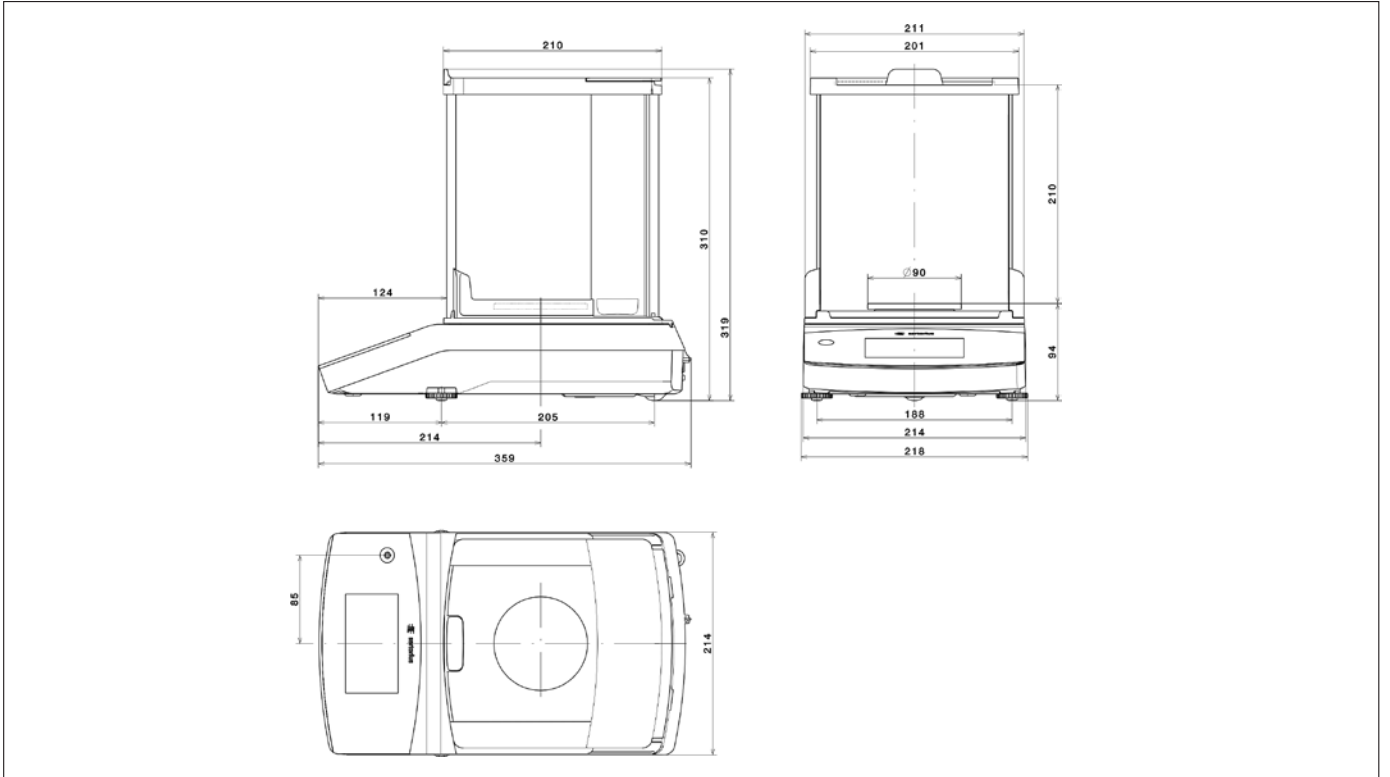
Calibration for lab balance model 124 - Proof Line knob weight 100 g, OIML class E2, with DAkkS certificate	YCW512-AC-02
Calibration for lab balance model 224; 313; 213 - Proof Line knob weight 200 g, OIML class E2, with DAkkS certificate	YCW522-AC-02
Calibration for lab balance model 612 - Proof Line knob weight 500 g, OIML class E2, with DAkkS certificate	YCW552-AC-02
Calibration for lab balance model 1102 - Proof Line knob weight 1 kg, OIML class E2, with DAkkS certificate	YCW612-AC-02
Calibration for lab balance model 2102 - Proof Line knob weight 2 kg, OIML class E2, with DAkkS certificate	YCW622-AC-02
Calibration for lab balance model 5101; 5100 - Proof Line knob weight 5 kg, OIML class E2, with DAkkS certificate	YCW652-AC-02



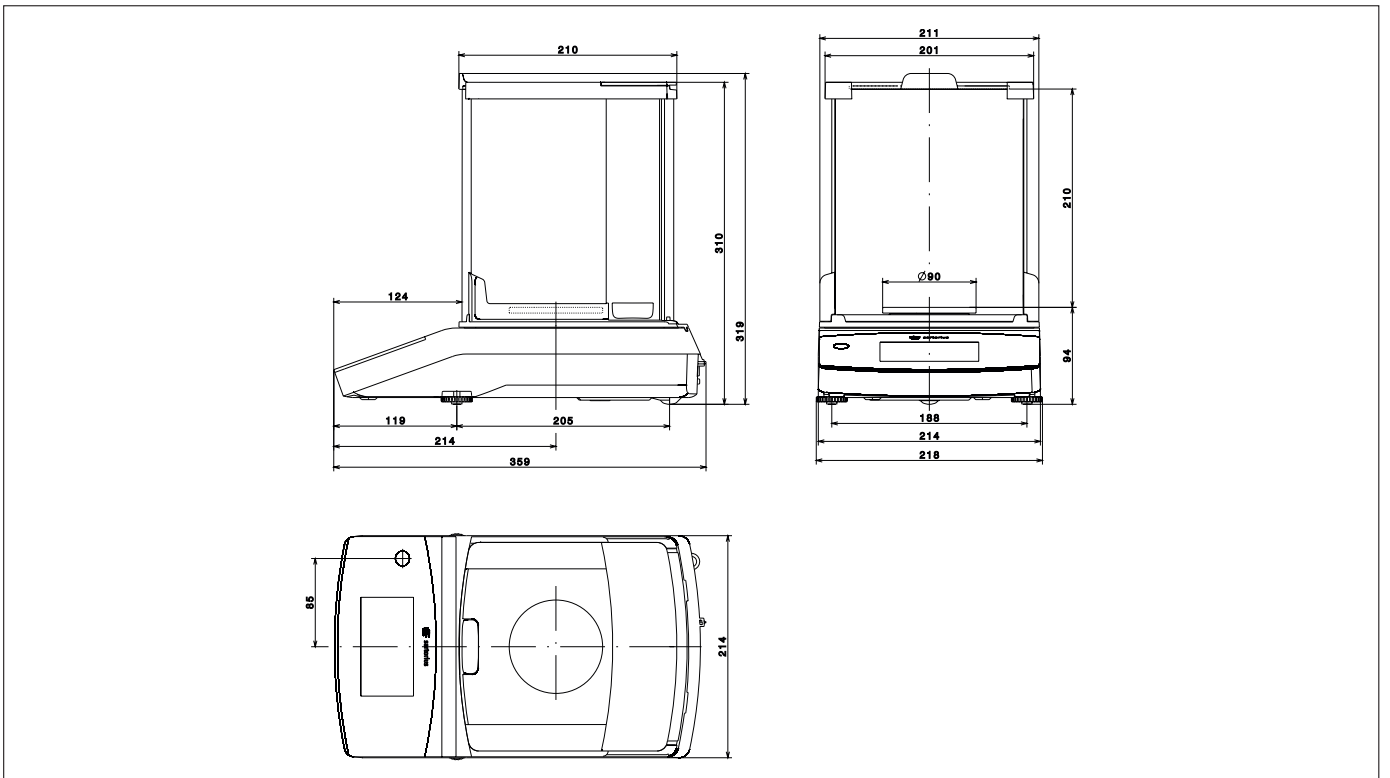
YDP40, Standard Laboratory Printer

Technical Drawings

Models with a readability of 0.1 mg, in mm



Models with a readability of 1 mg, in mm



Models with a readability of ≥ 10 mg, in mm

