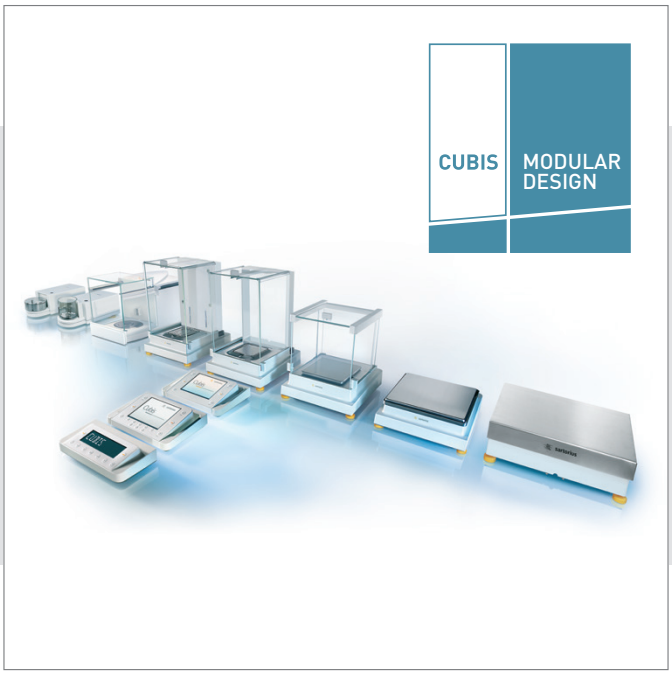
Sartorius Cubis® Series



Advantages

- Modular design offers the widest variety of customizable models
- Settings configurable to user-specific requirements
- Customized integration into existing applications by Q-Apps
- Motorized leveling function*
- The highest accuracy, even for the smallest sample quantities

* For all models up to a maximum capacity of 6.2 kg, except for models with a readability of 1 µg and 0.1 µg

Product Description

The Cubis® modular system, consisting of display and control units, weighing modules, draft shields, interface modules, leveling and certificate options as well as an extensive range of accessories, enables the balance to be customized to any weighing tasks. The metrological specifications and equipment features of Cubis® set it apart from other weighing instruments – far beyond the usual standards of premium laboratory balances. With a finely graduated range of weighing capacities of up to 70 kg and readabilities from 0.1 µg to 1 g, Cubis® offers the ideal choice of balance models for any application.

Technical Specifications

General Specifications	
Power supply	100–240 VAC, –15%/+10%, 50–60 Hz, 1.0 A
Input voltage	15 VDC, ± 5%
Power consumption	7 W (max.)
Ambient temperature	Operation +5°C to +40°C
Highest relative humidity	80% for temperatures up to 31°C, decreasing linearly to 50% relative humidity for 40°C
Safety of electrical equipment	According to EN 61010-1:2001: Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 1: General requirements
Electromagnetic compatibility	According to EN 61326-1:2006: Electrical equipment for measurement, control, and laboratory use – EMC requirements – Part 1: General requirements
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)

Cubis® Display and Control Units

Type	MSA	MSU	MSE
Operation	Touch screen, keys for main basic functions	Keys	Keys
Display	High-resolution color TFT, 5.7" graphic display	High-resolution black-and-white, 5.7" graphic display	Liquid crystal display, black-and-white
Adaptation of the display and control unit	Tiltable display, removable display and control unit		Removable display and control unit
Standard data interfaces	– USB port (integrated into weighing module) – RS-232 accessory interface, 25-pin (integrated into weighing module) – Choice of data communication protocols available (also enables connection to software designed for external manufacturers) – Ethernet (integrated into display unit)		– USB port (integrated into weighing module) – RS-232 accessory interface, 25-pin (integrated into weighing module)
SD card reader	Integrated as standard into display and control unit		–
Operation of the motorized draft shield (only for DA, DI, DM draft shields)	Activated by side keys or touch-free using IR sensor (optional); learning capability		Activated by key or touch-free using IR sensor (optional); learning capability
Applications	Mass unit conversion, SQmin function for minimum weight according to USP, isoCAL automatic calibration | adjustment function, individual identifiers, density determination, statistics, calculations, averaging, formulation, weighing in percent, time-controlled functions, totalizing, DKD measurement uncertainty, second tare memory, counting, checkweighing, alibi memory, audit trail		Mass unit conversion, isoCAL automatic calibration | adjustment function, density determination (buoyancy method only), calculations, averaging, net | total formulation, weighing in percent, counting, totalizing

Cubis® Weighing Modules

Ultra-Micro Balances, 0.0001 mg

Model		2.7S	2.7S (with DF filter draft shield)
Readability	mg	0.0001	0.0001
Weighing capacity	g	2.1	2.1
Tare range (subtractive)	g	– 2.1	– 2.1
Repeatability	≤±mg	0.00025	0.00025
Linearity	≤±mg	0.0009	0.0009
Off-center loading (eccentricity) (test load [g])	mg	0.0025 (1)	0.0025 (1)
Optimal minimum weight*	mg	0.082	–
Sensitivity drift between +10°C to +30°C	±ppm/K	1	1
Typical stabilization time	s	< 7	< 7
Typical response time	s	< 10	< 10
External standard calibration weight value (min. accuracy class)	g	2 (E2)	2 (E2)
Display update rate (depending on the filter level setting)	s	0.1 – 0.4	0.1 – 0.4
Weighing pan size ∅	mm	20	50
Weighing chamber height	mm	70	15
Type of protection		Protected against dust and water	

* = According to USP (United States Pharmacopeia) Chapter 41, the operating range is defined from 820 d to maximum weighing capacity. The optimal minimum weight is 820 d and, depending on the installation location and environmental conditions, this value may be higher.

Micro Balances, 0.001 mg

Model		6.6S	6.6S (with DF filter draft shield)	3.6P
Readability	mg	0.001	0.001	0.001 | 0.002 | 0.005
Weighing capacity	g	6.1	6.1	1.1 | 2.1 | 3.1
Tare range (subtractive)	g	– 6.1	– 6.1	– 3.1
Repeatability	≤±mg	0.001	0.001	0.003 | 0.004 | 0.005
Linearity	≤±mg	0.004	0.004	0.004
Off-center loading (eccentricity) (test load [g])	mg	0.004 (2)	0.004 (2)**	0.005 (1)
Optimal minimum weight*	mg	0.82	–	0.82
Sensitivity drift between +10°C to +30°C	±ppm/K	1	1	1
Typical stabilization time	s	< 5	< 5	< 5
Typical response time	s	< 8	< 8	< 8
External standard calibration weight value (min. accuracy class)	g	5 (E2)	5 (E2)	3 (E2)
Display update rate (depending on the filter level setting)	s	0.1 – 0.4	0.1 – 0.4	0.1 – 0.4
Weighing pan size ∅	mm	30	50	30
Weighing chamber height	mm	70	15	70
Type of protection		Protected against dust and water		

High-Capacity Micro Balances, 0.001 mg

Model		66S	66P	36S	36P	116P
Readability	mg	0.001	0.001 | 0.01	0.001	0.001 | 0.01	0.002 | 0.01
Weighing range	g	61	12 | 61	31	6 | 31	12 | 111
Tare range (subtractive)	g	61	61	31	31	111
Repeatability (5 g | 100 g)	≤±mg	–	–	–	–	0.004 | 0.010
Repeatability (2 g | 50 g)	≤±mg	0.0015 | 0.004	0.002 | 0.010	–	–	–
Repeatability (1 g | 20 g)	≤±mg	–	–	0.0015 | 0.002	0.0015 | 0.008	–
Linearity	≤±mg	0.020	0.020	0.015	0.015	0.020
Off-center loading (eccentricity) (test load [g])	mg	0.020 (20)	0.020 (20)	0.015 (10)	0.015 (10)	0.030 (50)
Optimal minimum weight*	mg	0.82	0.82	0.82	0.82	1.64
Sensitivity drift between +10°C to +30°C	±ppm/K	1	1	1	1	1
Typical stabilization time	s	3.5	3.5	3.5	3.5	3.5
Typical response time	s	10	10	10	10	10
External standard calibration weight value (min. accuracy class)	g	50 (E2)	50 (E2)	20 (E2)	20 (E2)	100 (E2)
Display update rate (depending on the filter level setting)	s	0.2 – 0.4	0.2 – 0.4	0.2 – 0.4	0.2 – 0.4	0.2 – 0.4
Weighing pan size ∅	mm	30 | 50**	30 | 50**	30	30	50
Weighing chamber height	mm	181	181	181	181	240
Type of protection		Protected against dust and water				

* = According to USP (United States Pharmacopeia) Chapter 41, the operating range is defined from 820 d to maximum weighing capacity. The optimal minimum weight is 820 d and, depending on the installation location and environmental conditions, this value may be higher.

** = All specifications are based on measurements performed with the 30 mm standard weighing pan.

Semi-Micro Balances, 0.01 mg

Model		225S	225P	125P
Readability	mg	0.01	0.01 | 0.02 | 0.05	0.01 | 0.1
Weighing capacity	g	220	60 | 120 | 220	60 | 120
Tare range (subtractive)	g	– 220	– 220	– 120
Repeatability	≤±mg	0…60 g: 0.015 60…220 g: 0.025	0…60 g: 0.015 60…220 g: 0.04	0…60 g: 0.015 60…120 g: 0.06
Linearity	≤±mg	0.1	0.15	0.15
Off-center loading (eccentricity) (test load [g])	mg	0.15 (100)	0.2 (100)	0.15 (50)
Optimal minimum weight*	mg	8.2	8.2	8.2
Sensitivity drift between +10°C to +30°C	±ppm/K	1	1	1
Typical stabilization time	s	≤ 2	≤ 2	≤ 2
Typical response time	s	≤ 6	≤ 6	≤ 6
External standard calibration weight value (min. accuracy class)	g	200 (E2)	200 (E2)	100 (E2)
Display update rate (depending on the filter level setting)	s	0.2 – 0.4	0.2 – 0.4	0.2 – 0.4
Weighing pan size (W × D)	mm	85 × 85	85 × 85	85 × 85
Weighing chamber height (DU draft shield)	mm	261	261	261
Type of protection		Protected against dust and water		

Analytical Balances, 0.1 mg

Model		524S	524P	324S	324P	224S	124S
Readability	mg	0.1	0.1 | 0.2 | 0.5	0.1	0.1 | 0.2 | 0.5	0.1	0.1
Weighing capacity	g	520	120 | 240 | 520	320	80 | 160 | 320	220	120
Tare range (subtractive)	g	– 520	– 520	– 320	– 320	– 220	– 120
Repeatability	≤±mg	0.1	0.15 | 0.2 | 0.4	0.1	0.1 | 0.2 | 0.4	0.07	0.1
Linearity	≤±mg	0.4	0.5	0.3	0.5	0.2	0.2
Off-center loading (eccentricity) (test load [g])	mg	0.3 (200)	0.4 (200)	0.3 (200)	0.4 (200)	0.2 (100)	0.2 (50)
Optimal minimum weight*	mg	82	82	82	82	82	82
Sensitivity drift between +10°C to +30°C	±ppm/K	1	1	1	1	1	1
Typical stabilization time	s	< 1	< 1	< 1	< 1	< 1	< 1
Typical response time	s	< 3	< 3	< 3	< 3	< 3	< 3
External standard calibration weight value (min. accuracy class)	g	500 (E2)	500 (E2)	200+100 (E2)	200+100 (E2)	200 (E2)	100 (E2)
Display update rate (depending on the filter level setting)	s	0.1 – 0.4	0.1 – 0.4	0.1 – 0.4	0.1 – 0.4	0.1 – 0.4	0.1 – 0.4
Weighing pan size (W × D)	mm	85 × 85	85 × 85	85 × 85	85 × 85	85 × 85	85 × 85
Weighing chamber height (DU draft shield)	mm	261	261	261	261	261	261
Type of protection		IP54 in accordance with IEC 60529					

* = According to USP (United States Pharmacopeia) Chapter 41, the operating range is defined from 820 d to maximum weighing capacity. The optimal minimum weight is 820 d and, depending on the installation location and environmental conditions, this value may be higher.

Precision Balances, 1 mg

Model		5203S	5203P	3203S	2203S	2203P
Readability	mg	1	1 | 2 | 5	1	1	1 | 10
Weighing capacity	g	5,200	1,200 | 2,400 | 5,200	3,200	2,200	1,010 | 2,200
Tare range (subtractive)	g	- 5,200	- 5,200	– 3,200	– 2,200	– 2,200
Repeatability	≤±mg	1	1	1	1	1 | 6
Linearity	≤±mg	5	5	5	3	5
Off-center loading (eccentricity) (test load [g])	mg	2 (2,000)	2 (2,000)	2 (1,000)	2 (1,000)	3 (1,000)
Optimal minimum weight*	g	0.82	0.82	0.82	0.82	0.82
Sensitivity drift between +10°C to +30°C	±ppm/K	1	1	1	1	1
Typical stabilization time	s	≤ 1	≤ 1	≤ 1	≤ 1	≤ 1
Typical response time	s	≤ 2	≤ 2	≤ 2	≤ 1.5	≤ 1.5
External standard calibration weight value (min. accuracy class)	g	5,000 (E2)	5,000 (E2)	2,000 (E2)	2,000 (E2)	1,000 (E2)
Display update rate (depending on the filter level setting)	s	0.1 – 0.4	0.1 – 0.4	0.1 – 0.4	0.1 – 0.4	0.1 – 0.4
Weighing pan size (W × D)	mm	140 × 140	140 × 140	140 × 140	140 × 140	140 × 140
Weighing chamber height (DE draft shield)	mm	172	172	172	172	172
Type of protection		Protected against dust and water				

Model		1203S	623S	623P	323S
Readability	mg	1	1	1 | 2 | 5	1
Weighing capacity	g	1,200	620	150 | 300 | 620	320
Tare range (subtractive)	g	– 1,200	– 620	– 620	– 320
Repeatability	≤±mg	0.7	0.7	1 | 2 | 4	0.7
Linearity	≤±mg	2	2	5	2
Off-center loading (eccentricity) (test load [g])	mg	2 (500)	2 (200)	4 (200)	2 (200)
Optimal minimum weight*	g	0.82	0.82	0.82	0.82
Sensitivity drift between +10°C to +30°C	±ppm/K	1.5	2	2	2
Typical stabilization time	s	≤ 1	≤ 0.8	≤ 0.8	≤ 0.8
Typical response time	s	≤ 1.5	≤ 1	≤ 1	≤ 1
External standard calibration weight value (min. accuracy class)	g	1,000 (E2)	500 (E2)	500 (F1)	200 (E2)
Display update rate (depending on the filter level setting)	s	0.1 – 0.4	0.1 – 0.4	0.1 – 0.4	0.1 – 0.4
Weighing pan size (W × D)	mm	140 × 140	140 × 140	140 × 140	140 × 140
Weighing chamber height (DE draft shield)	mm	172	172	172	172
Type of protection		Protected against dust and water			

* = According to USP (United States Pharmacopeia) Chapter 41, the operating range is defined from 820 d to maximum weighing capacity. The optimal minimum weight is 820 d and, depending on the installation location and environmental conditions, this value may be higher.

Precision Balances, 10 mg

Model		14202S	14202P	10202S	8202S
Readability	mg	10	10 | 20 | 50	10	10
Weighing capacity	g	14,200	3,500 | 7,000 | 14,200	10,200	8,200
Tare range (subtractive)	g	- 14,200	- 14,200	– 10,200	– 8,200
Repeatability	≤±mg	10	10 | 20 | 40	7	7
Linearity	≤±mg	30	50	20	20
Off-center loading (eccentricity) (test load [g])	mg	20 (5,000)	40 (5,000)	20 (5,000)	20 (5,000)
Optimal minimum weight*	g	8.2	8.2	8.2	8.2
Sensitivity drift between +10°C to +30°C	±ppm/K	1.5	1.5	2	2
Typical stabilization time	s	1	1	1	1
Typical response time	s	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5
External standard calibration weight value (min. accuracy class)	kg	10 (E2)	10 (E2)	10 (E2)	5 (E2)
Display update rate (depending on the filter level setting)	s	0.1 – 0.4	0.1 – 0.4	0.1 – 0.4	0.1 – 0.4
Weighing pan size (W × D)	mm	206 × 206	206 × 206	206 × 206	206 × 206
Type of protection		IP54 in accordance with IEC 60529			

Model		6202S	6202P	5202S	4202S
Readability	mg	10	10 | 20 | 50	10	10
Weighing capacity	g	6,200	1,500 | 3,000 | 6,200	5,200	4,200
Tare range (subtractive)	g	– 6,200	– 6,200	- 5,200	– 4,200
Repeatability	≤±mg	7	7 | 20 | 40	6	7
Linearity	≤±mg	20	50	10	20
Off-center loading (eccentricity) (test load [g])	mg	20 (2,000)	50 (2,000)	10 (2,000)	30 (2,000)
Optimal minimum weight*	g	8.2	8.2	8.2	8.2
Sensitivity drift between +10°C to +30°C	±ppm/K	2	2	2	2
Typical stabilization time	s	1	1	0.8	**0.8**
Typical response time	s	≤ 1.5	≤ 1.5	≤ 1	≤ 1
External standard calibration weight value (min. accuracy class)	kg	5 (E2)	5 (F1)	5 (E2)	2 (E2)
Display update rate (depending on the filter level setting)	s	0.1 – 0.4	0.1 – 0.4	0.1 – 0.4	0.1 – 0.4
Weighing pan size (W × D)	mm	206 × 206	206 × 206	140 × 140	206 × 206
Type of protection		IP54 in accordance with IEC 60529			

* = According to USP (United States Pharmacopeia) Chapter 41, the operating range is defined from 820 d to maximum weighing capacity. The optimal minimum weight is 820 d and, depending on the installation location and environmental conditions, this value may be higher.

Precision Balances, 10 mg

Model		2202S	1202S
Readability	mg	10	10
Weighing capacity	g	2,200	1,200
Tare range (subtractive)	g	– 2,200	– 1,200
Repeatability	≤±mg	7	7
Linearity	≤±mg	20	20
Off-center loading (eccentricity) (test load [g])	mg	20 (1,000)	20 (500)
Optimal minimum weight*	g	8.2	8.2
Sensitivity drift between +10°C to +30°C	±ppm/K	2	2
Typical stabilization time	s	0.8	0.8
Typical response time	s	≤ 1	≤ 1
External standard calibration weight value (min. accuracy class)	kg	2 (F1)	1 (F1)
Display update rate (depending on the filter level setting)	s	0.1 – 0.4	0.1 – 0.4
Weighing pan size (W × D)	mm	206 × 206	206 × 206
Type of protection		IP54 in accordance with IEC 60529	

Precision Balances, 100 mg

Model		12201S	8201S	5201S
Readability	mg	100	100	100
Weighing capacity	g	12,200	8,200	5,200
Tare range (subtractive)	g	– 12,200	– 8,200	– 5,200
Repeatability	≤±mg	50	50	50
Linearity	≤±mg	100	100	100
Off-center loading (eccentricity) (test load [g])	mg	200 (5,000)	200 (5,000)	200 (2,000)
Optimal minimum weight*	g	82	82	82
Sensitivity drift between +10°C to +30°C	±ppm/K	4	4	4
Typical stabilization time	s	0.8	0.8	0.8
Typical response time	s	≤ 1	≤ 1	≤ 1
External standard calibration weight value (min. accuracy class)	kg	10 (F1)	5 (F2)	5 (F2)
Display update rate (depending on the filter level setting)	s	0.1 – 0.4	0.1 – 0.4	0.1 – 0.4
Weighing pan size (W × D)	mm	206 × 206	206 × 206	206 × 206
Type of protection		IP54 in accordance with IEC 60529		

* = According to USP (United States Pharmacopeia) Chapter 41, the operating range is defined from 820 d to maximum weighing capacity. The optimal minimum weight is 820 d and, depending on the installation location and environmental conditions, this value may be higher.

High-Capacity Precision Balances, 100 mg

Model		70201S	36201S	36201P	20201S
Readability	mg	100	100	100 | 1,000	100
Weighing capacity	g	70,200	36,200	10,200 | 36,200	20,200
Tare range (subtractive)	g	– 70,200	– 36,200	- 36,200	– 20,200
Repeatability	≤±mg	100	100	100 | 500	100
Linearity	≤±mg	500	200	200	200
Off-center loading (eccentricity) (test load [g])	mg	500 (20,000)	300 (10,000)	300 (10,000)	300 (5,000)
Optimal minimum weight*	g	82	82	82	82
Sensitivity drift between +10°C to +30°C	±ppm/K	3	2	2	2
Typical response time	s	1.5	1.5	1.5	1.5
External standard calibration weight value (min. accuracy class)	kg	20 (F1)	10 (F1)	10 (F1)	10 (F1)
Display update rate (depending on the filter level setting)	s	0.1 – 0.4	0.1 – 0.4	0.1 – 0.4	0.1 – 0.4
Weighing pan size (W × D)	mm	400 × 300	400 × 300	400 × 300	400 × 300
Type of protection		IP54 in accordance with IEC 60529			

* = According to USP (United States Pharmacopeia) Chapter 41, the operating range is defined from 820 d to maximum weighing capacity. The optimal minimum weight is 820 d and, depending on the installation location and environmental conditions, this value may be higher.

High-Capacity Precision Balances, 1 g

Model		70200S	36200S
Readability	g	1	1
Weighing capacity	g	70,200	36,200
Tare range (subtractive)	g	– 70,200	– 36,200
Repeatability	≤±mg	500	500
Linearity	≤±mg	1,000	1,000
Off-center loading (eccentricity) (test load [g])	mg	1,000 (20,000)	1,000 (10,000)
Optimal minimum weight*	g	820	820
Sensitivity drift between +10°C to +30°C	±ppm/K	2	3
Typical response time	s	1	1
External standard calibration weight value (min. accuracy class)	kg	20 (F1)	10 (F1)
Display update rate (depending on the filter level setting)	s	0.1 – 0.4	0.1 – 0.4
Weighing pan size (W × D)	mm	400 × 300	400 × 300
Type of protection		IP54 in accordance with IEC 60529	

* = According to USP (United States Pharmacopeia) Chapter 41, the operating range is defined from 820 d to maximum weighing capacity. The optimal minimum weight is 820 d and, depending on the installation location and environmental conditions, this value may be higher.

Cubis® Leveling	
Ø	Cubis® shows the level indicator on the display and provides support for rapid leveling (a standard feature on MSA and MSU display and control units; for MSE units, only symbols are provided to support manual leveling).
1	Fully automatic, motorized leveling at the touch of a key (available on all Cubis® weighing modules with a weighing capacity of > 6.1 g and ≤ 6,200 g).

Test Certificates	
ØØ	Standard certificate of conformity to specifications
TR	Like ØØ, but with a detailed test report

Cubis® Draft Shields	
DØ	Flat, stainless steel weighing pan without a draft shield; for weighing modules with a pan size of 206 × 206 mm and 400 × 300 mm.
DR	Flat, stainless steel weighing pan draft shield (removable, with no glass components) for all precision balances with a readability of 1 mg and for weighing module 5202S.
DE	Manual, glass draft shield for all precision balances with a readability of 1 mg and for weighing module 5202S.
DU	Manual, glass analytical draft shield with smooth-action doors that open wide and provide unimpeded access to the weighing chamber without interfering braces. For all models with 0.01 mg, 0.1 mg, and 1 mg readability and for weighing module 5202S.
DA	Automatic, glass motorized draft shield with learning capability for user-friendly operation and easy customization to the changing requirements of different applications. For all models with 0.01 mg, 0.1 mg, and 1 mg readability and for weighing module 5202S.
DI	Identical to the DA draft shield, but also includes an integrated ionizer to eliminate interfering electrostatic charges on samples and sample containers.
DM	Automatic, motorized, round all-glass draft shield with learning capability for ultra-micro and micro balances with a readability of 0.0001 mg and 0.001 mg (2.7S, 6.6S and 3.6P weighing modules).
DF	Manual, stainless steel draft shield for weighing filters with diameters of up to 50 mm (75 mm and 90 mm pans optional) on ultra-micro and micro balances with a readability of 0.0001 mg and 0.001 mg (not for weighing module 3.6P). Designed to minimize the effects of static electricity.
DH	Automatic, motorized glass draft shield with learning capability for user-friendly operation and easy customization to the changing requirements of different applications. For models with a readability of 0.001 mg (weighing modules 66S, 66P, 36S, 36P only).

Interface Module Options*	
IR	RS-232 interface, 25-pin
IB	*Bluetooth*® interface
IP	RS-232 interface, 9-pin, incl. PS/2 port

* = Interface module options not applicable for high-capacity precision balance models

The brand name and logo for *Bluetooth*® wireless technology are owned by Bluetooth SIG Inc. The use of this brand name and trademark by Sartorius AG is under license. Other brand names and trademarks are the property of their respective owners.

Cubis® Optional Accessories

Printers and Communication	
Thermal transfer/direct thermal printer Thermal Printer (order paper separately)	YDP30
Standard paper & ink ribbon set for YDP30 (fade-resistant)	69Y03285
Self-adhesive paper & ink ribbon set for YDP30 (fade-resistant)	69Y03286
Self-adhesive labels for YAPP11 & YDP30, 58 × 100 mm (qty. of 350)	69Y03094
Self-adhesive labels for YAPP11 & YDP30, 58 × 76 mm (qty. of 500)	69Y03093
Self-adhesive labels for YAPP11 & YDP30, 58 × 30 mm (qty. of 1,000)	69Y03092
Standard paper for direct thermal printing on YDP30, set of 5 rolls	69Y03287
Self-adhesive paper for direct thermal printing on YDP30, set of 5 rolls	69Y03288
Cubis® data printer, for connection to RS-232, 25-pin, accessory interface	YDP10-0CE
Cubis® data printer, with *Bluetooth*® data transmission (with YDO01MS-B or option IB only)	YDP10BT-0CE
Data printer, with statistics and time | date function	YDP20-0CE
Ink ribbon for YDP10-0CE, YDP10BT-0CE, and YDP20-0CE	6906918
Paper rolls for printer YDP10-0CE, YDP10BT-0CE, and YDP20-0CE; 5 rolls, each with 50 m	6906937
Bluetooth® data interface for wireless connection of data printer YDP10BT-0CE	YDO01MS-B
RS-232 data interface, 9-pin including PS/2 for connecting a computer or keyboard	YDO01MS-P
RS-232 data interface, 25-pin for connection of Cubis® accessories	YDO01MS-R
Display cable, ~ 10 ft. (3 m), for Cubis® MSA and MSU models for detached setup of display and weighing unit (installation by Sartorius Service or in factory [order VF4016])	YCC01-MSD3
Display cable, ~ 10 ft. (3 m), for Cubis® MSE models, for detached setup of display and weighing unit (installation by Sartorius Service or in factory [order VF4016])	YCC01-MSED3
Cable, ~ 10 ft. (3 m), between weighing module and electronics module for Cubis® models with 0.01 mg | 0.001 mg | 0.0001 mg readability	YCC01-MSM3
Installation display cable, ~ 10 ft. (3 m), for Cubis® models, for detached setup of display and weighing unit	VF4016
25-pin RS-232 to USB cable	YCC01-USBM2
RS-232 interface cable to connect computer with 9-pin COM interface; 5 feet (1.5 m)	YCC05-001M2
Sartorius Wedge for Windows, software for data communication via USB and Ethernet (does not include cable)	YSW02

Displays and Input | Output Elements	
MSA control unit with color TFT graphic display and touch screen	YAC01MSA
MSE control unit with backlit liquid-crystal display and tactile keys (not for weighing modules 66S, 66P, 36S, 36P)	YAC01MSE
MSU control unit with backlit black | white graphic display and tactile navigation keys	YAC01MSU
Barcode scanner with connecting cable for PS2, 120 mm reading range (1D only)	YBR03PS2
QR | barcode reader with connecting cable for PS2	YBR04PS2
Foot switch for printing, taring, or using a different function key; key function selectable by menu code, incl. T-connector	YFS01
Infrared sensor for touch-free activation of functions (e.g., controlling the draft shield)	YHS01MS
Hand switch for printing, taring, or using a different function key; key function selectable by menu code, incl. T-connector	YHS02
Foot switch for activating the OPEN|CLOSE draft shield functions (only in combination with DA and DI draft shield), taring and printing	YPE01RC
Additional display, LCD, digit height 13 mm, backlit	YRD03Z
3-segment checkweighing display, red – green – red, for over | under measurements, incl. T-connector	YRD11Z

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Software for Dosing	
Q-App for preparing stock solutions (only for MSA display and control unit)	YAPP16

Pipette Calibration Hardware	
Pipette calibration kit (hardware) for models with 0.1 mg and 0.01 mg readability Consists of moisture trap and all required adapters	YCP04MS
Pipette calibration kit (hardware) for micro balance weighing module 6.6S Consists of moisture trap and all required adapters	VF988
Pipette Check light V1. Pipette testing according to ISO 8655 (for MSA display only)	YAPP04
Pipette Check Advanced. Pipette testing according to ISO 8655, with pipette database and analysis of the last test series via HTML (for MSA display only)	YAPP042

Filter Weighing and Anti-static Accessories	
Anti-static weighing pan, 130 mm diameter, for weighing modules with a readability of 0.1 mg or 0.01 mg	YWP01MS
Filter weighing pan, 75 mm diameter, for ultra-micro and micro balance models (weighing modules 6.6S, 2.7S; only for DF draft shield)	VF2562
Filter weighing pan, 90 mm diameter, for ultra-micro and micro balance models (weighing modules 6.6S, 2.7S; only for DF draft shield)	VF2880
Ionization blower to eliminate electrostatic charges on sample containers and samples	YIB01-0UR
Stat-Pen ionization probe for discharging electrostatically charged samples and filters	YSTP01
Ionizer with U-shaped electrode manufactured by HAUG, for 115V only	YIB02-115V

Special Applications	
Density determination kit for solids and liquids for weighing modules with a readability of 0.01 mg and 0.1 mg	YDK01MS
Density determination kit for solids and liquids for weighing modules with a readability of 1 mg	YDK02MS
Q-Grip, universal holder for containers used for weighing and filters up to a diameter of 120 mm (replaces the original weighing pan; for Cubis® models with 0.01 and 0.1 mg readability)	YFH01MS
Q-Grid weighing pan for Cubis® models with a readability of 10 mg or 100 mg (pan size of 206 × 206 mm) for weighing in laboratory fume hoods, safety powder hoods or workbenches (reduces exposure of the weighing pan to lift by strong air current; replaces standard weighing pan)	YWP03MS
Climate module, uncalibrated, for high-capacity micro balances (only for weighing modules 66S, 66P, 36S, 36P)	YCM20MC
Climate module for high-capacity micro balances (only for weighing modules 66S, 66P, 36S, 36P) with DAkkS calibration certificate*	YCM20MC-DAkkS
Calibration of climate module YCM20MC with DAkkS calibration certificate*	YCM20DAkkS
Titanium sample holder for flexibility in accommodating different container sizes comes standard for 66S, 66P, 36S, 36P and 116P weighing modules	YSH02
Slotted titanium weighing pan with 50 mm diameter (standard on weighing modules 66S, 66P, 116P) for large sample containers	YWP09
Slotted titanium weighing pan with 90 mm diameter (only for 116P weighing module)	YWP10

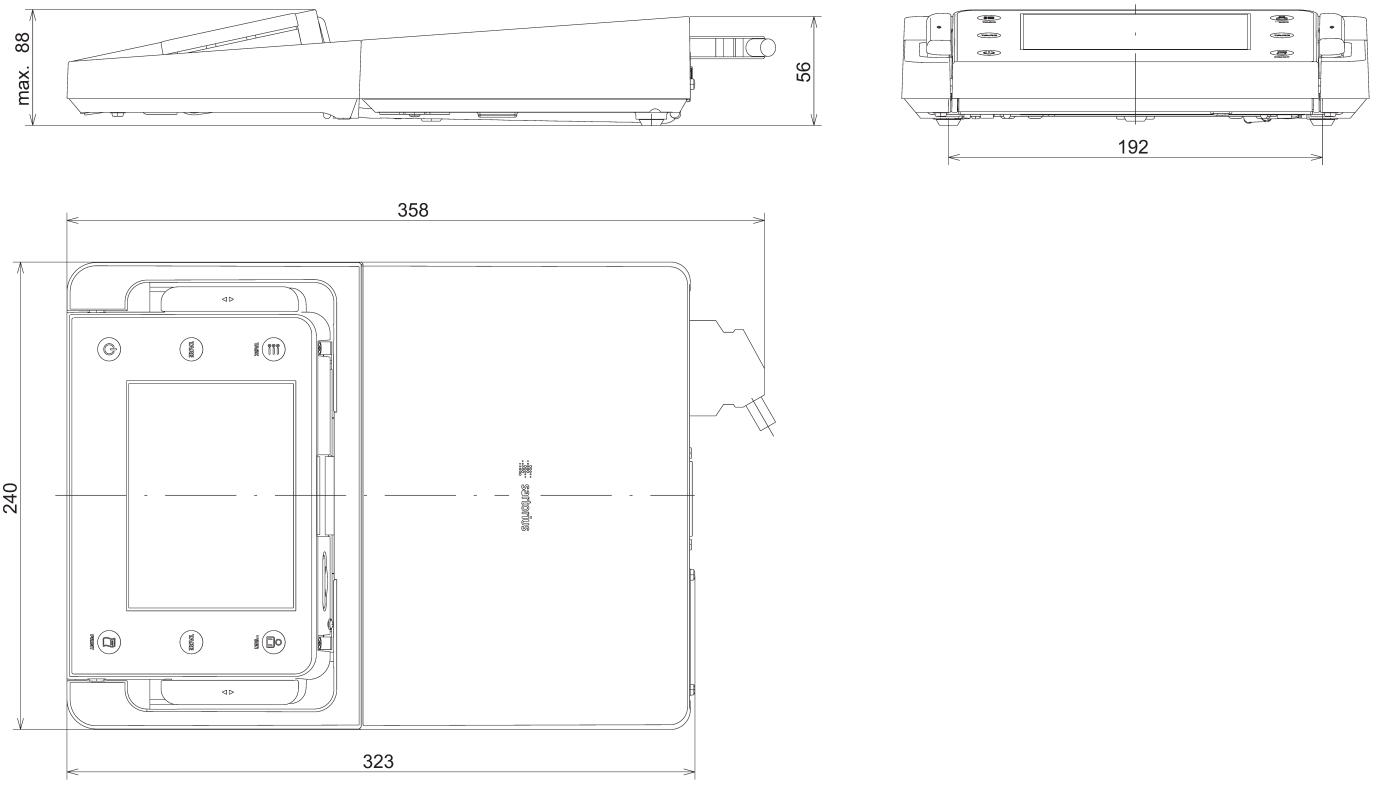
*Certificate issued by the internationally recognized German national calibration body

Anti-Vibration Solutions	
Balance table made of granite, for weighing with vibration dampening	YWT03
Weighing table made of wood, with decoupled centered granite plate	YWT09
Granite platform (13" × 15") with vibration isolators	U1-21201315
Granite platform (16" × 21") with vibration isolators	U1-24201621

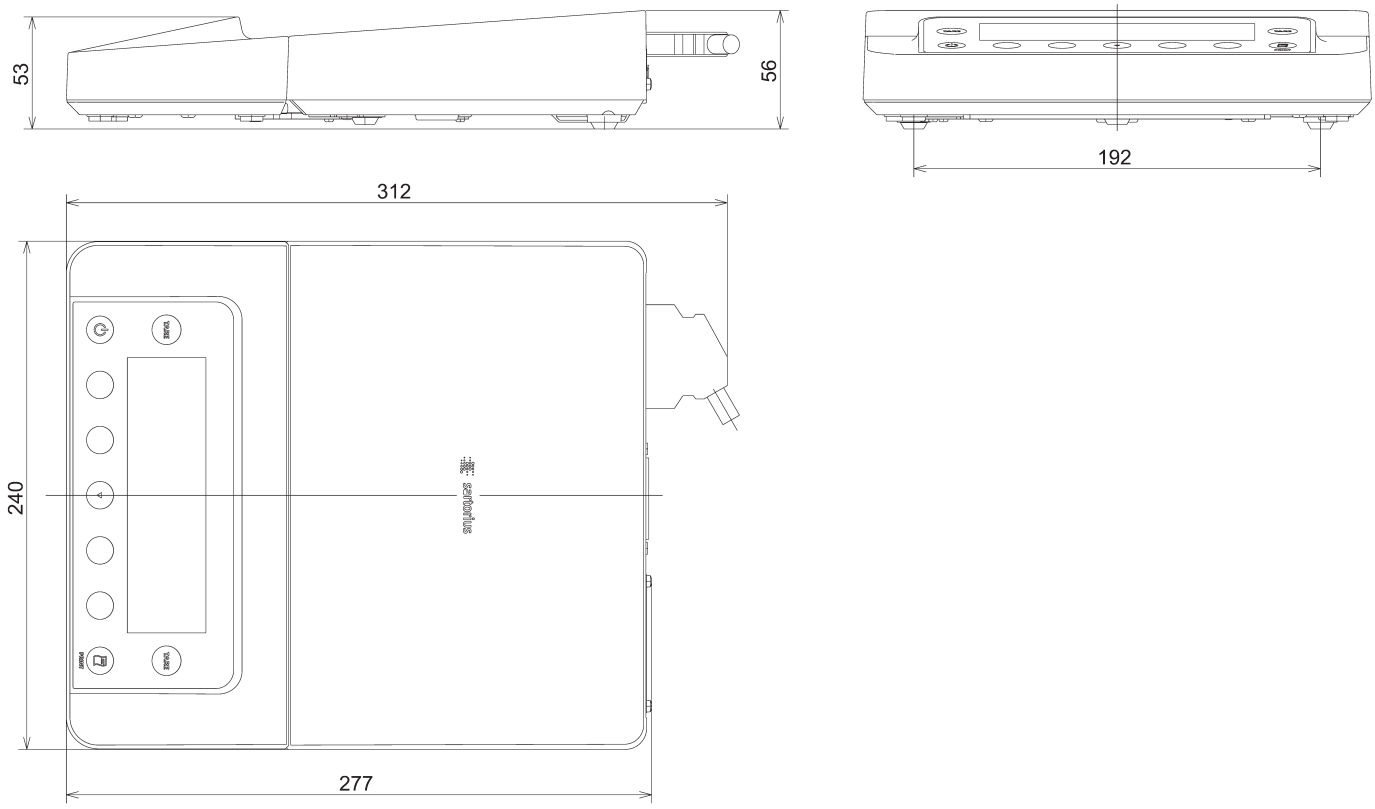
Weighing Accessories	
Aluminum weigh boats, 4.5 mg (quantity of 250) for ultra-micro and micro balance models	U1-6565-250
Support arm for 10 | 100 mg precision weighing modules for raised mounting of MSE, MSU and MSA display and control units	YDH01MS
Support arm for precision weighing modules with 100 mg | 1 g readability and weighing capacity ≥ 20 kg; for raised mounting of MSE, MSU, and MSA display and control units	YDH02MS
Hook for below-balance weighing; for precision weighing modules with 100 mg | 1 g readability and for a weighing capacity ≥ 20 kg	69EA0040

Balance Dimensions

Ultra-Micro Balance | Micro Balance – with MSA|MSU Display and Control Unit and Electronics Module
All dimensions are given in millimeters

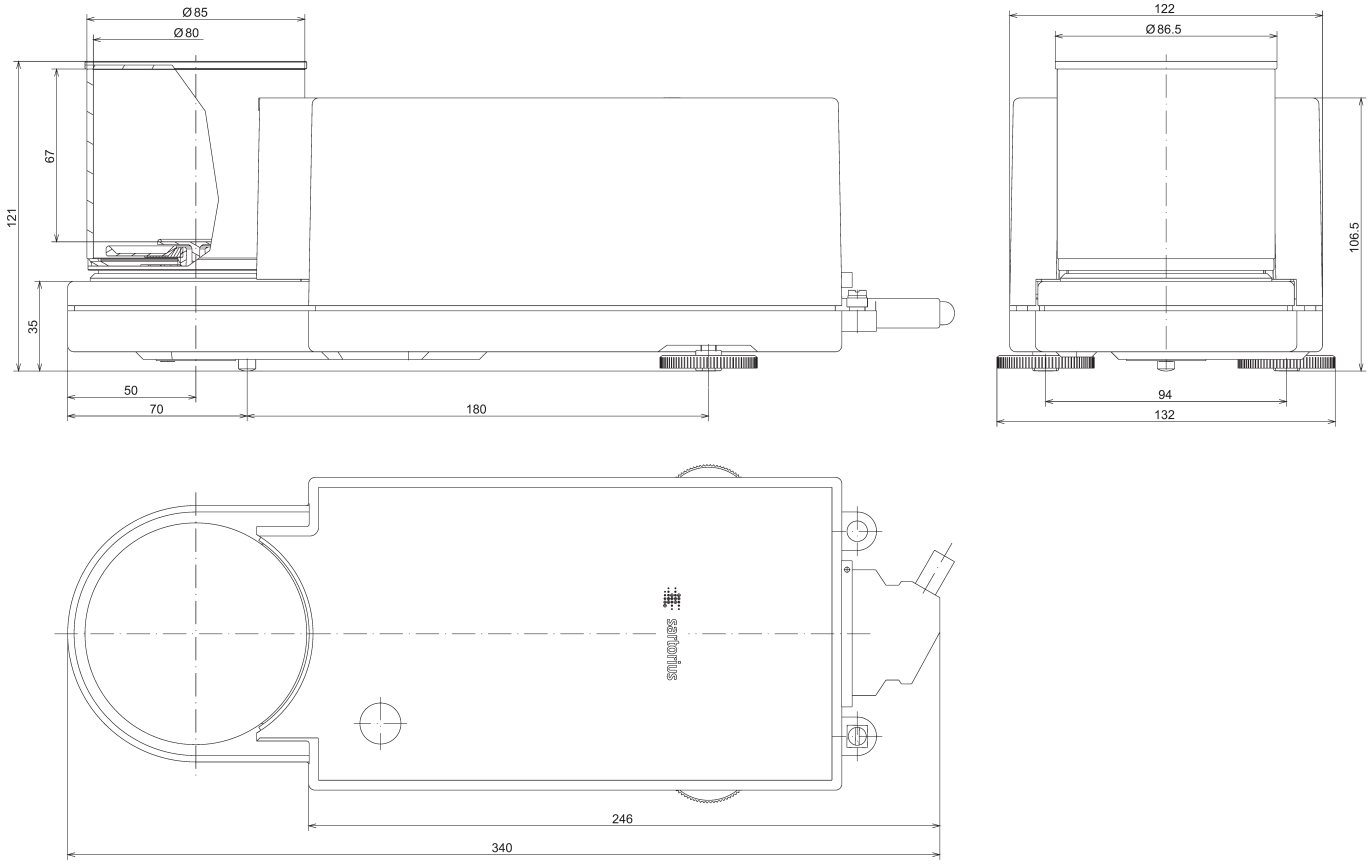


Ultra-Micro Balance | Micro Balance – with MSE Display and Control Unit and Electronics Module
All dimensions are given in millimeters

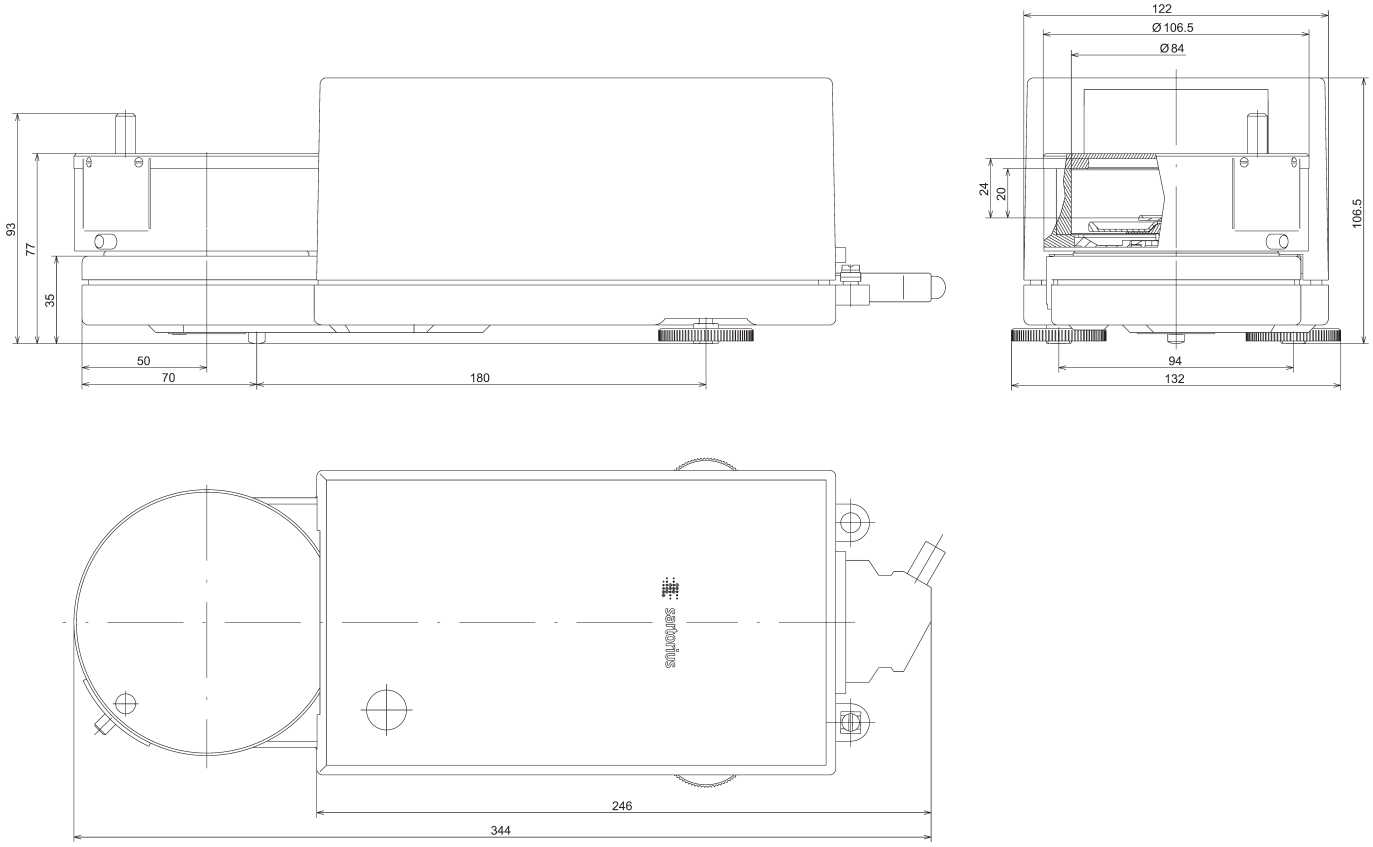


Ultra-Micro Balance | Micro Balance Weighing Module with DM Draft Shield

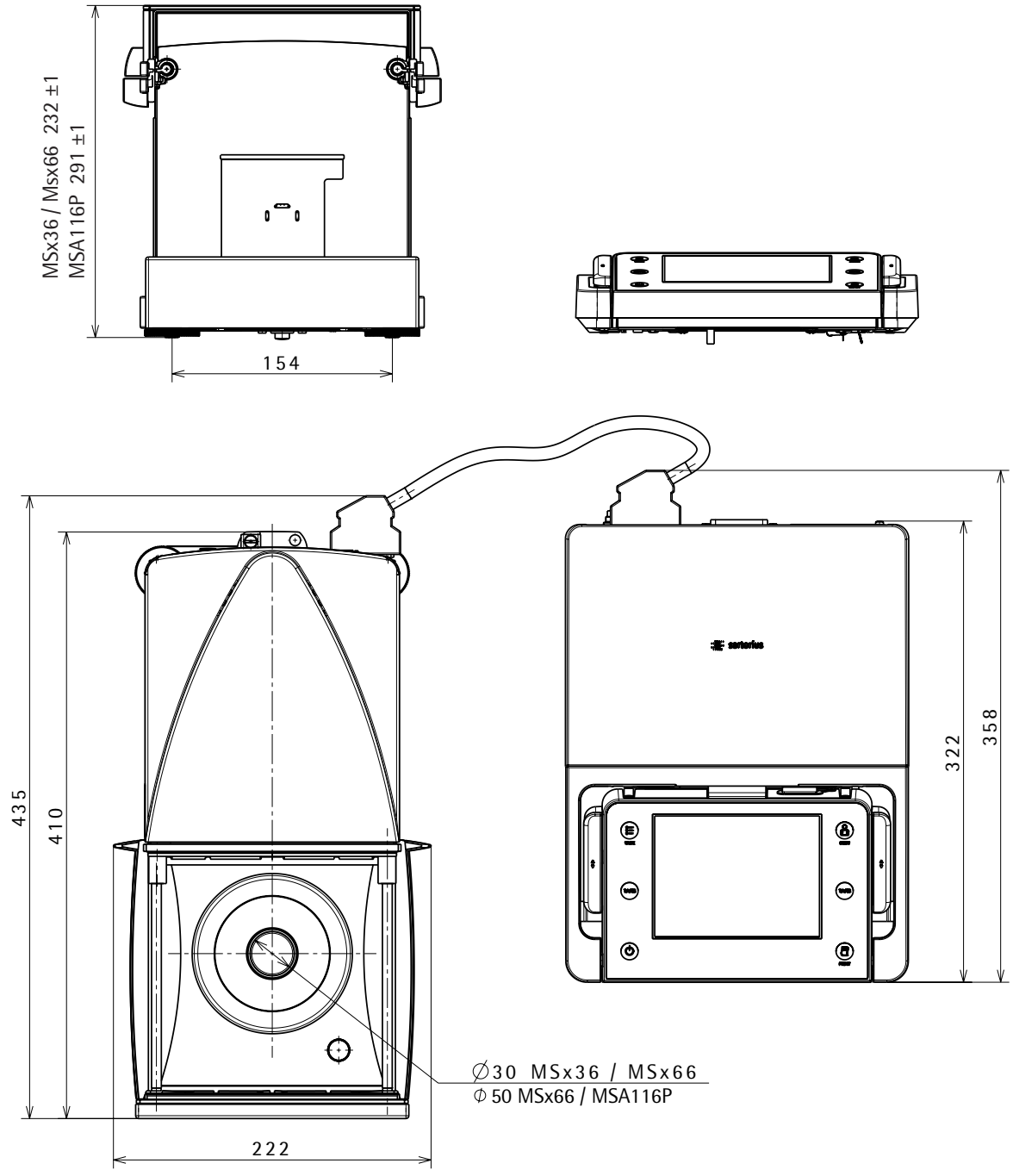
All dimensions are given in millimeters

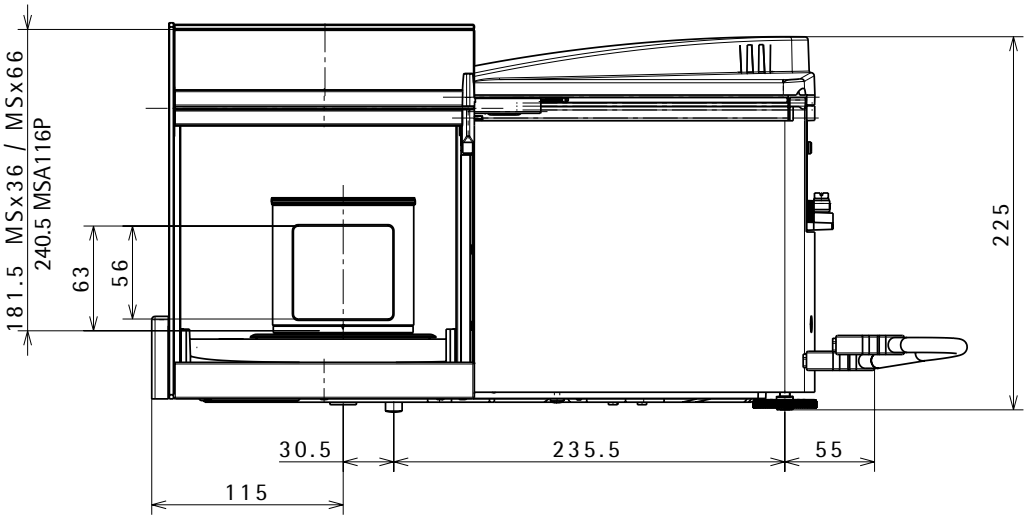


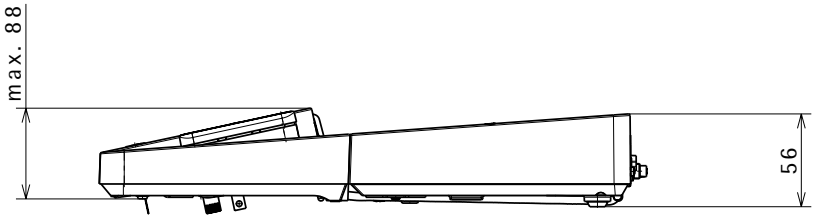
Ultra-Micro Balance | Micro Balance Weighing Module with DF Draft Shield
All dimensions are given in millimeters



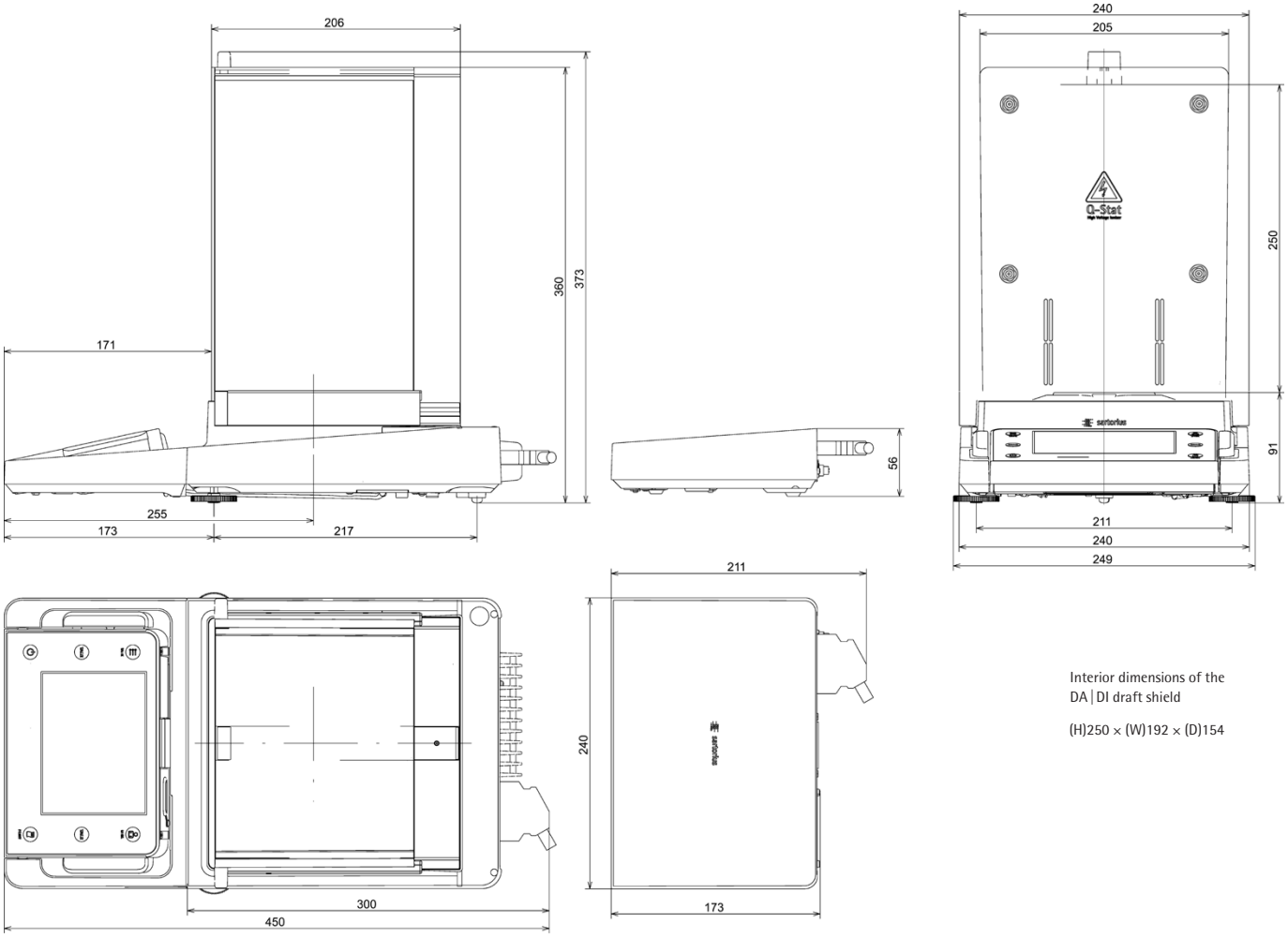
High-Capacity Micro Balances with DH Draft Shield
All dimensions are given in millimeters




181.5 MSx36 / MSx66
240.5 MSA116P
63
56
225
30.5
235.5
55
115


max. 88
56

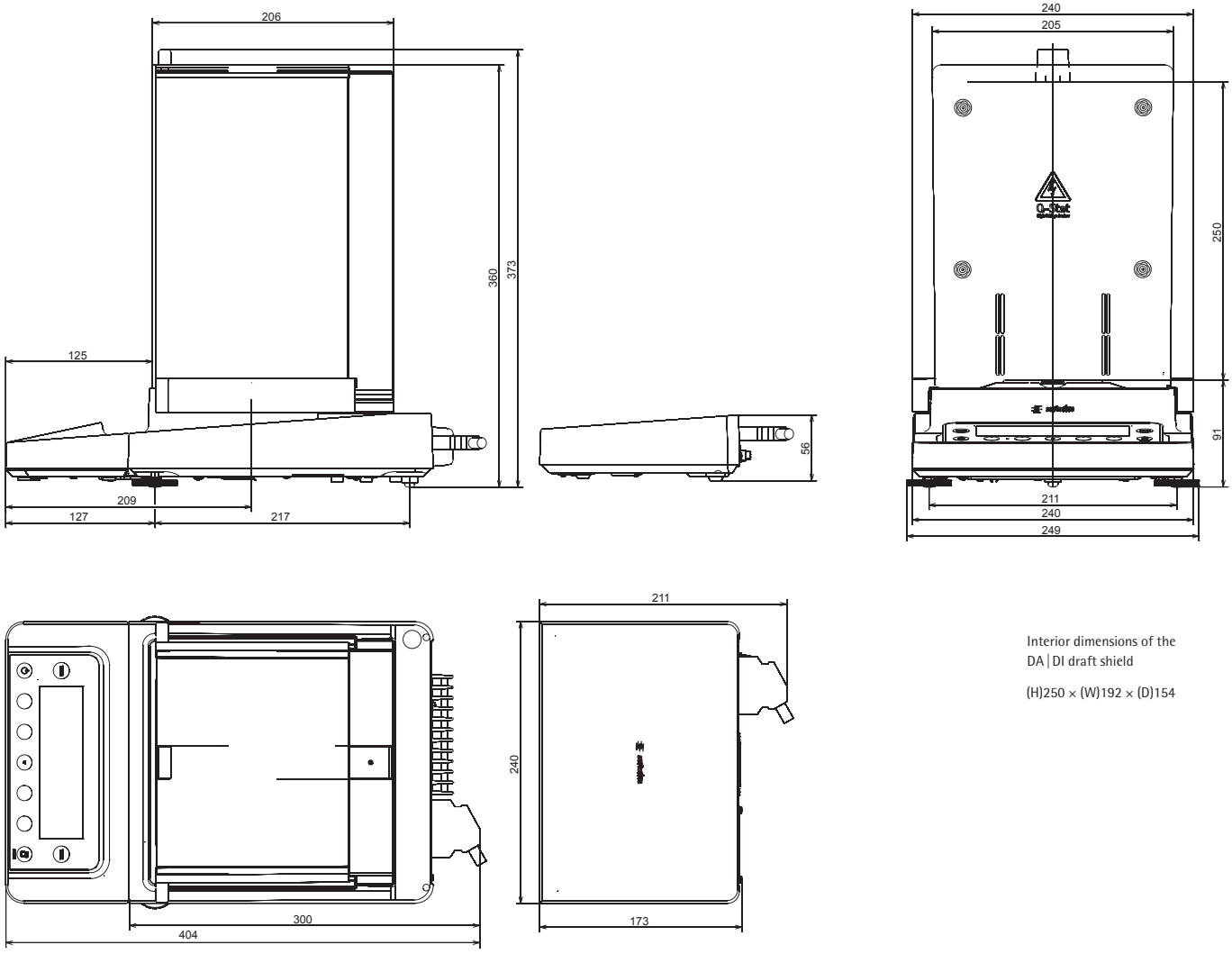
Semi-Micro Balances with Motorized Draft Shield – with MSA|MSU Display and Control Unit and Electronics Module
All dimensions are given in millimeters



Interior dimensions of the
DA|DI draft shield

(H)250 × (W)192 × (D)154

Semi-Micro Balances with Motorized Draft Shield – with MSE Display and Control Unit and Electronics Module
All dimensions are given in millimeters

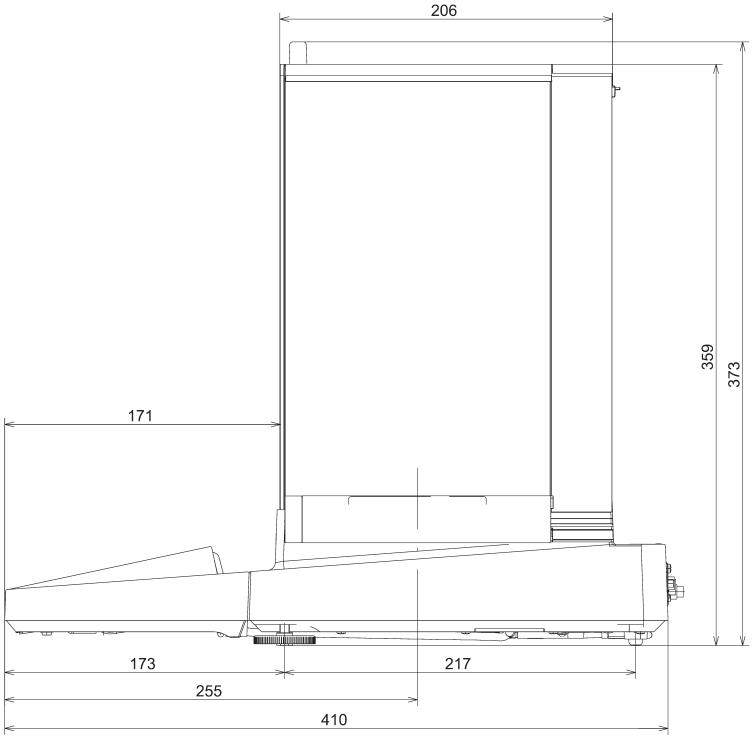


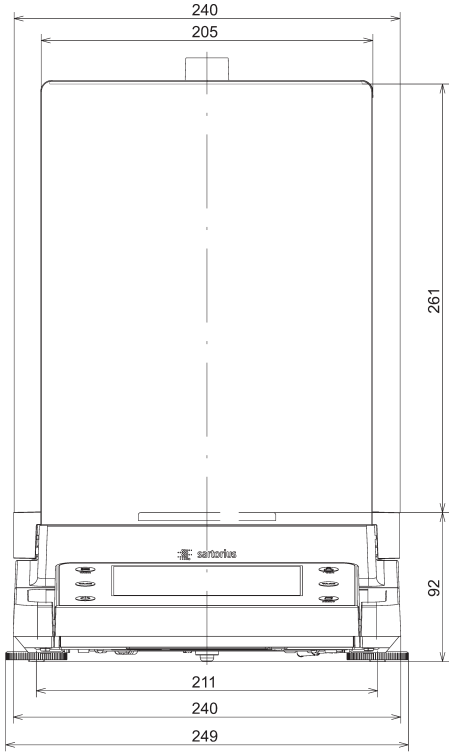
Interior dimensions of the
DA | DI draft shield

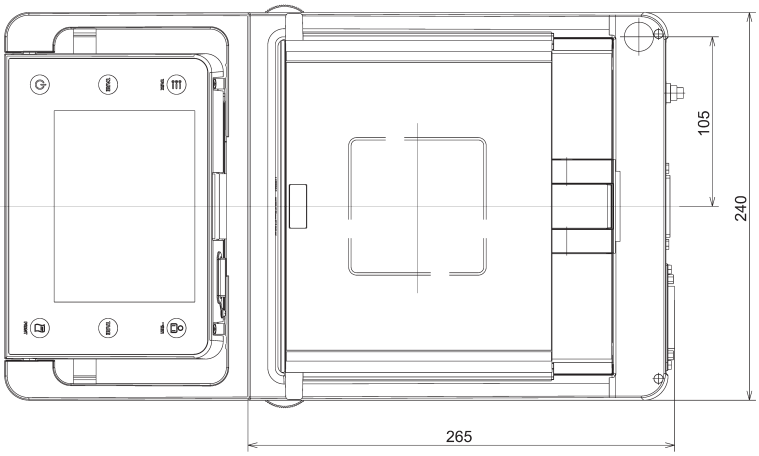
(H)250 × (W)192 × (D)154

Analytical Balances with Manual DU Draft Shield – with MSA|MSU Display and Control Unit

All dimensions are given in millimeters



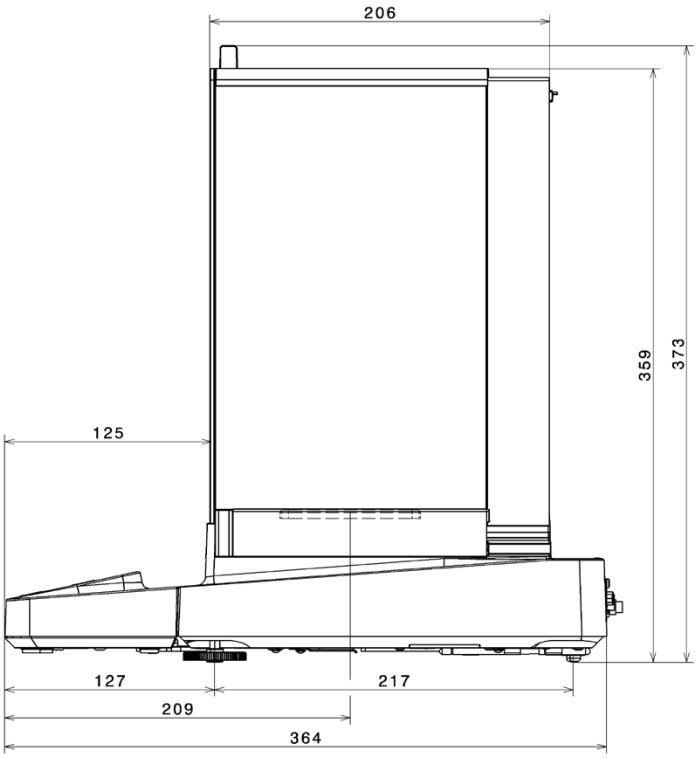


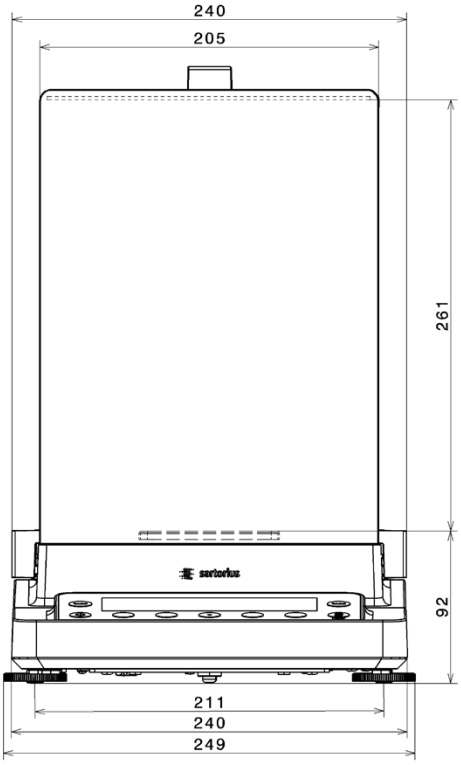


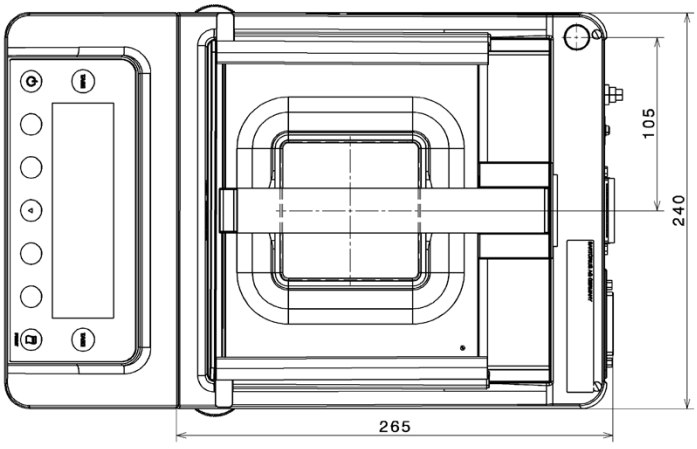
Interior dimensions of the
DU draft shield

(H)261 × (W)193 × (D)191

Analytical Balances with a Manual DU Draft Shield – with MSE Display and Control Unit
All dimensions are given in millimeters





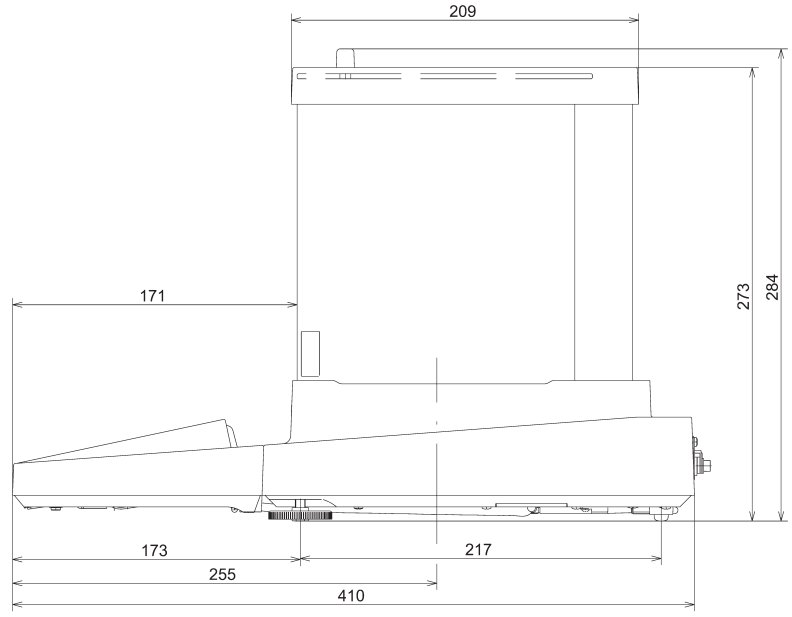


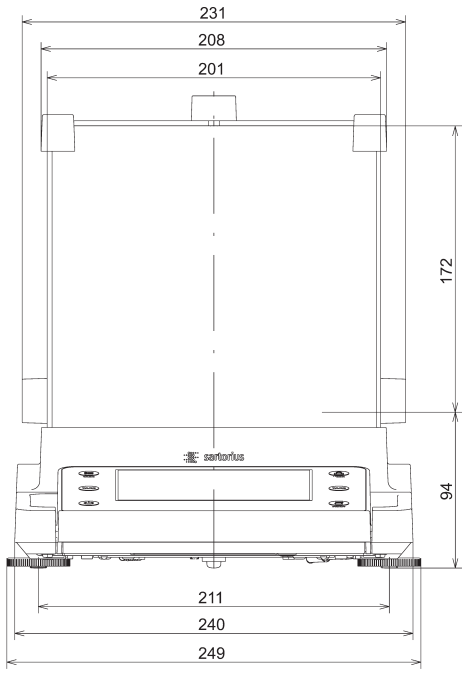
Interior dimensions of the
DU draft shield

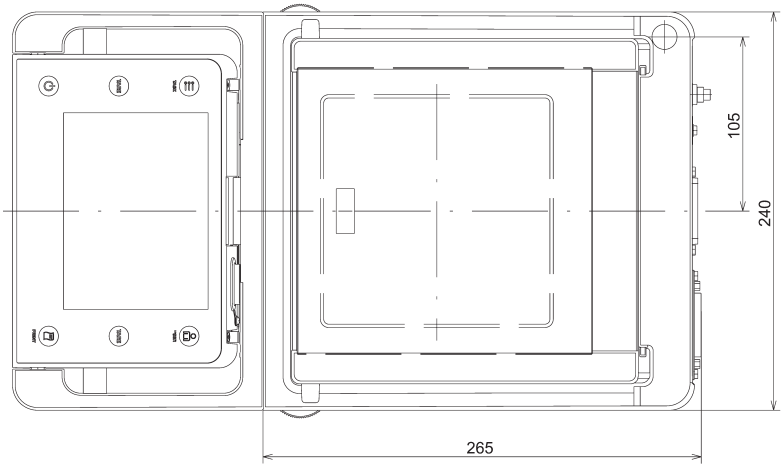
(H)261 × (W)193 × (D)191

Precision Balances with a Readability of 1 mg or Model 5202S (with a Readability of 10 mg) and DE Draft Shield – with MSA|MSU Display and Control Unit

All dimensions are given in millimeters





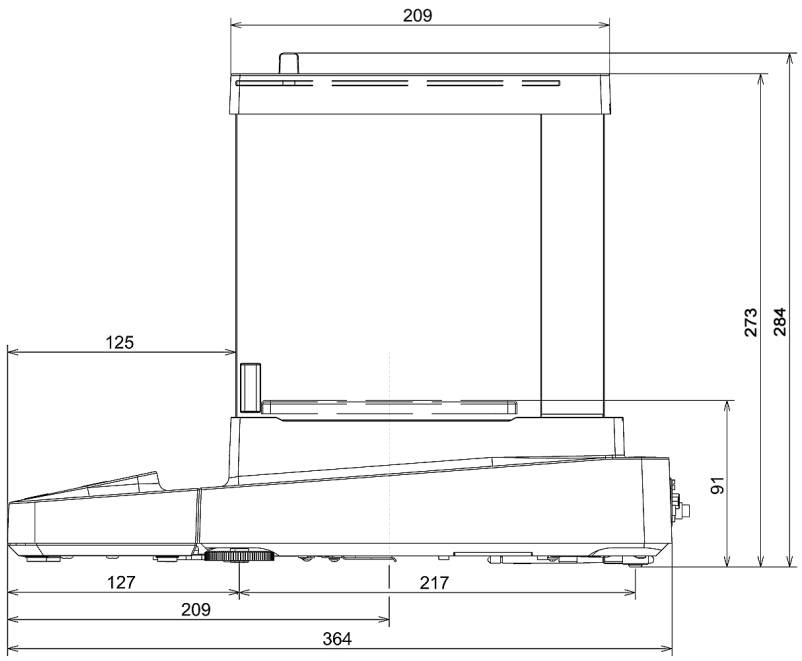


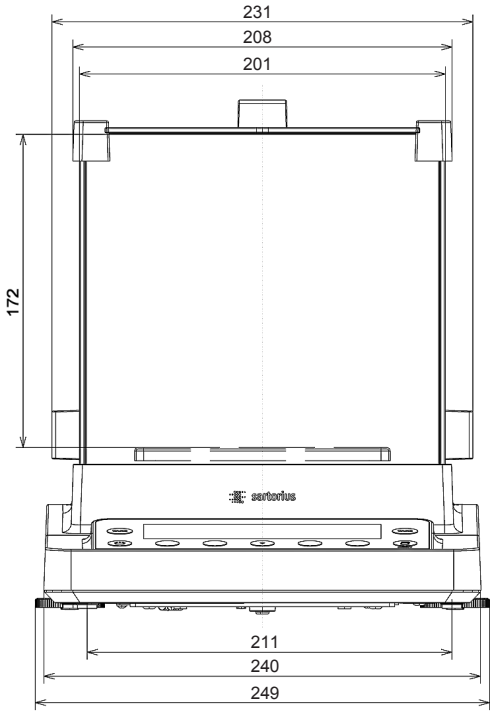
Draft shield interior dimensions

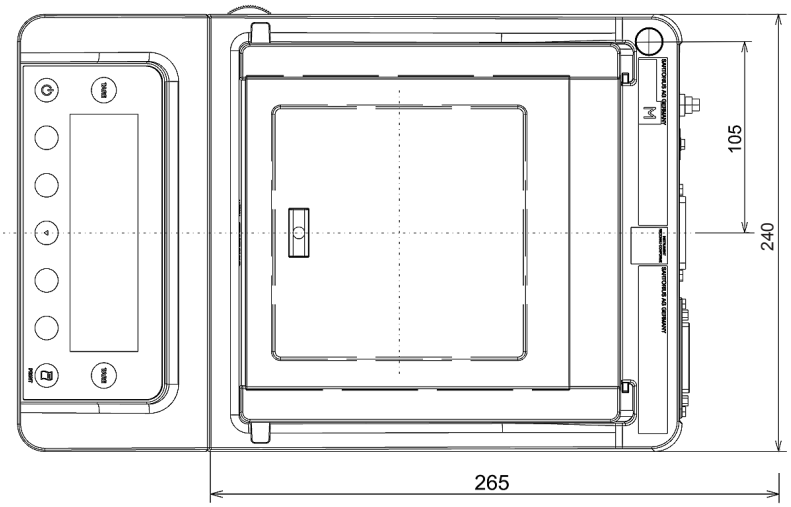
(H)172 × (W)193 × (D)191

Precision Balances with a Readability of 1 mg or Model 5202S (with a Readability of 10 mg) and DE Draft Shield – with MSE Display and Control Unit

All dimensions are given in millimeters





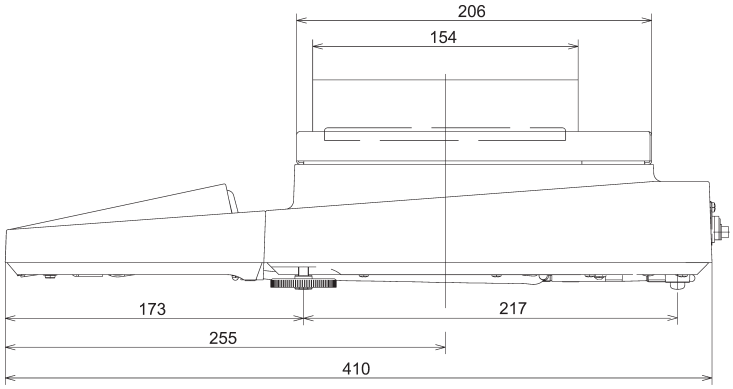


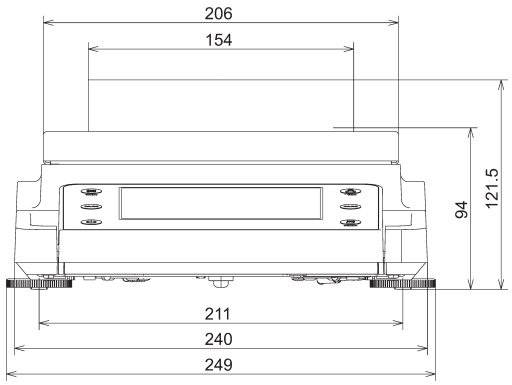
Draft shield interior dimensions

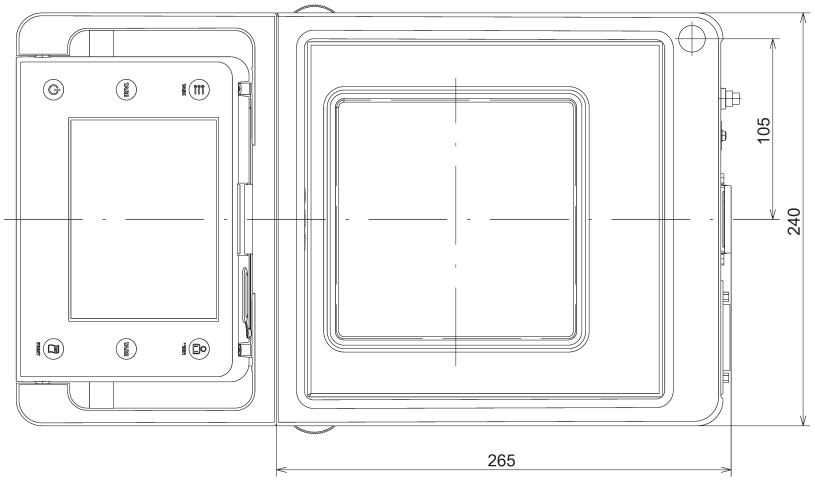
(H)172 × (W)193 × (D)191

Precision Balances with a Readability of 1 mg or Model 5202S (with a Readability of 10 mg) and DR Draft Shield – with MSA|MSU Display and Control Unit

All dimensions are given in millimeters

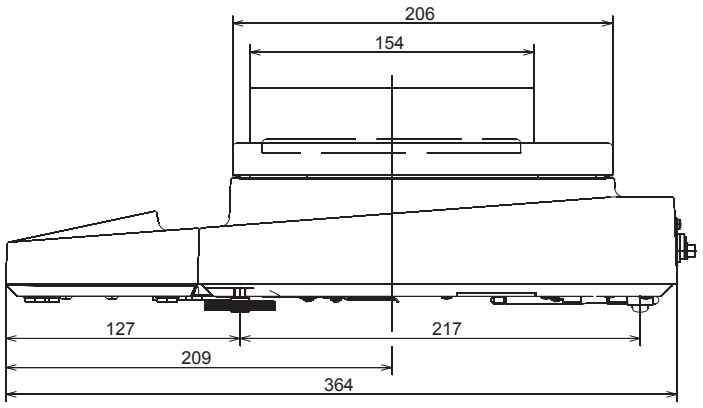


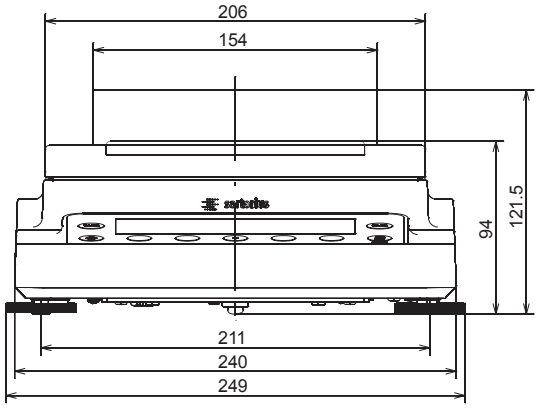


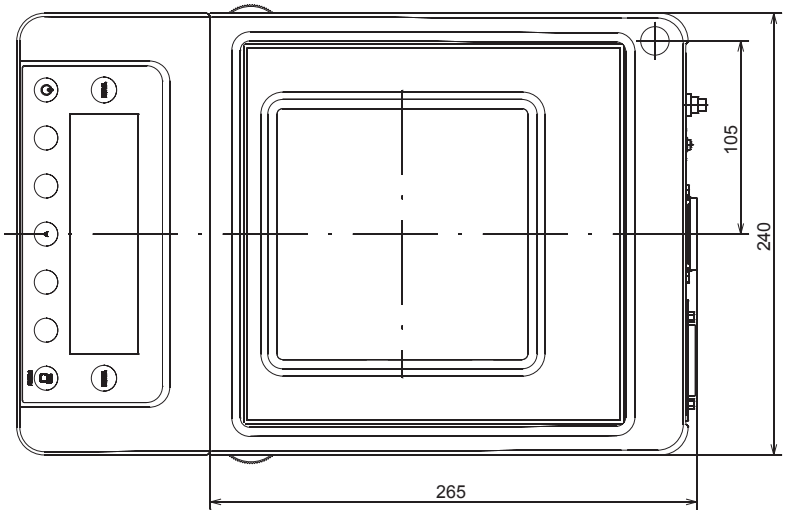


Precision Balances with a Readability of 1 mg or Model 5202S (with a Readability of 10 mg) and DR Draft Shield – with MSE Display and Control Unit

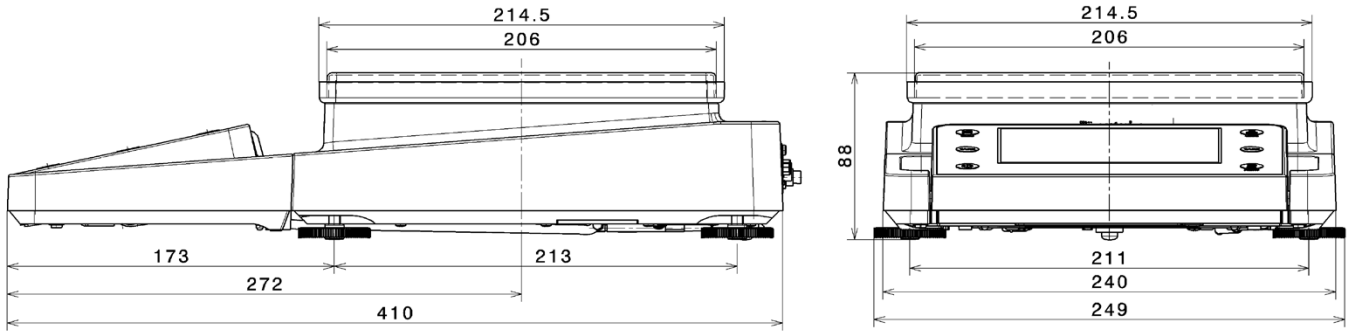
All dimensions are given in millimeters

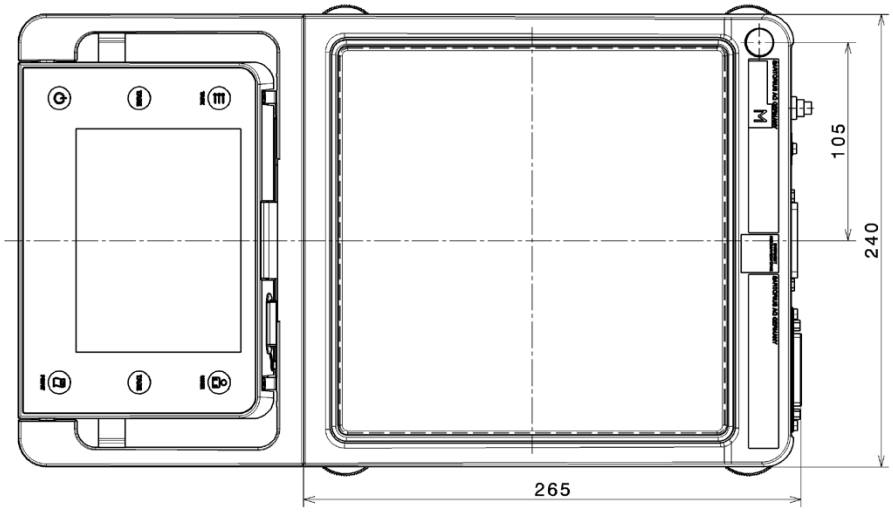




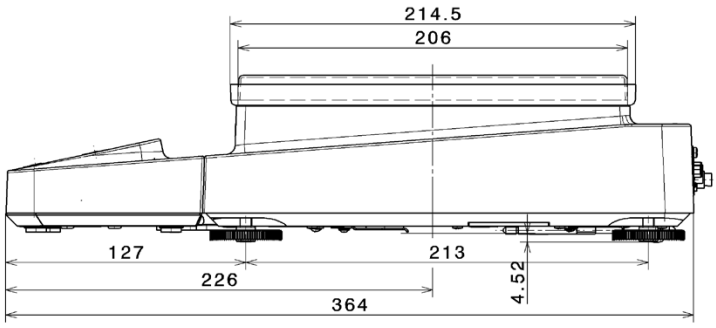


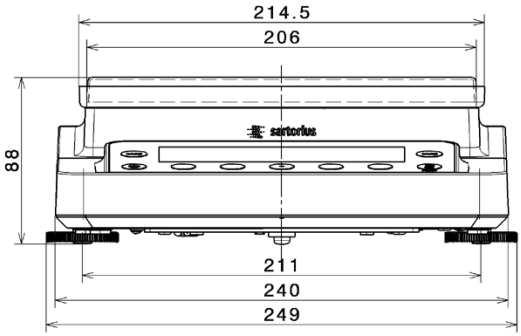
Precision Balances Without a Draft Shield (D0) (Toploader) – with MSA|MSU Display and Control Unit
All dimensions are given in millimeters

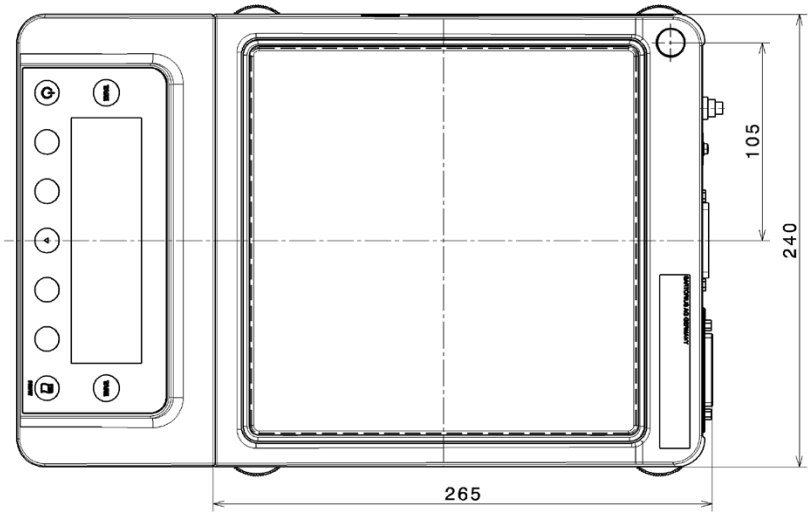




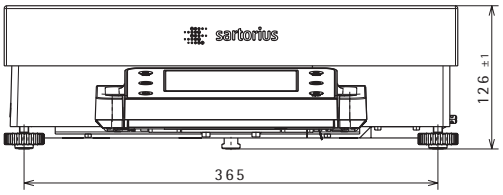
Precision Balances Without a Draft Shield (DO) (Toploader) – with MSE Display and Control Unit
All dimensions are given in millimeters

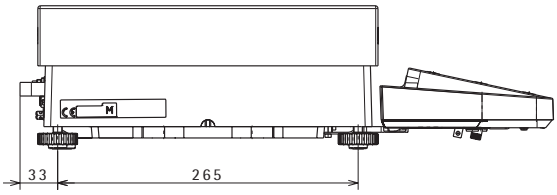


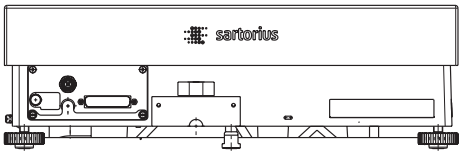


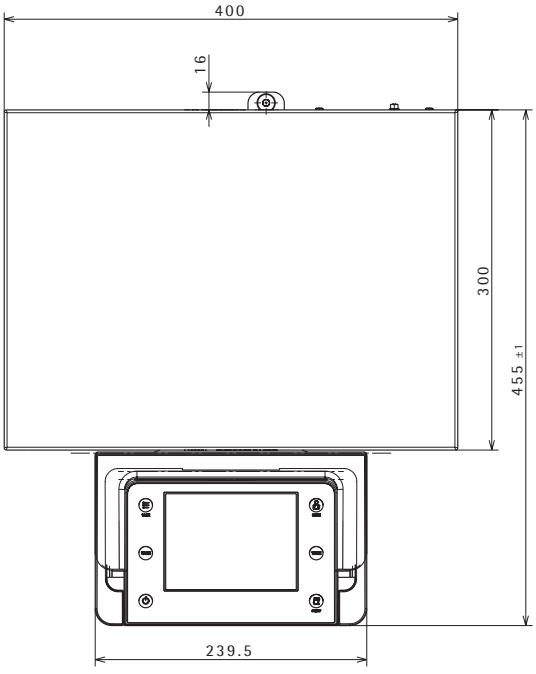


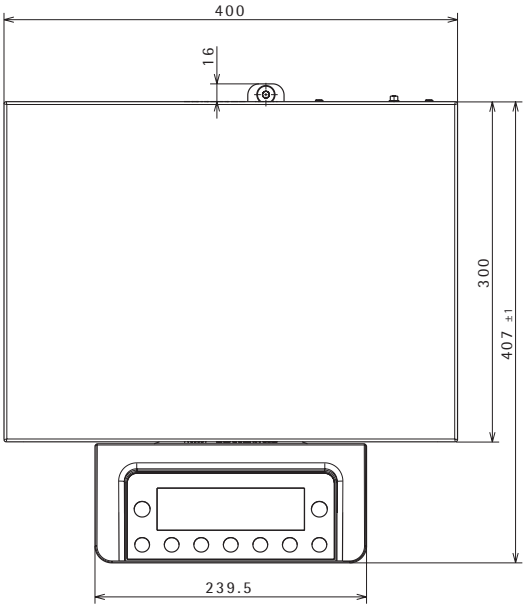
High-Capacity Precision Balances
All dimensions are given in millimeters



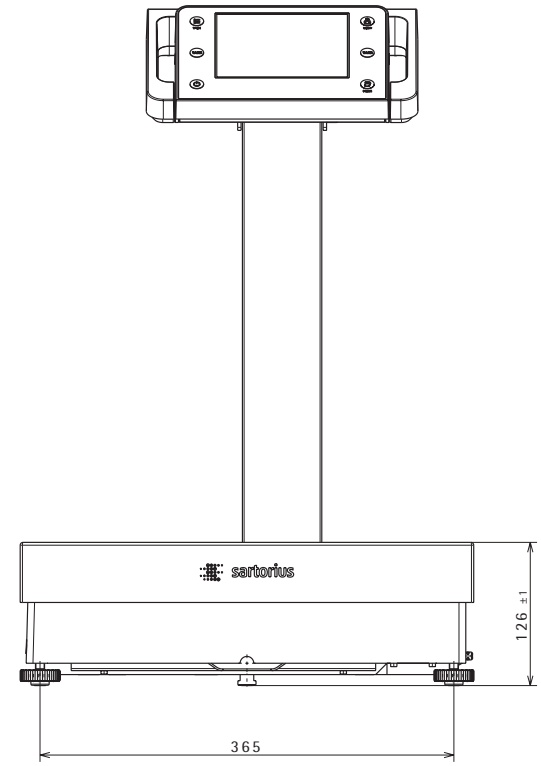


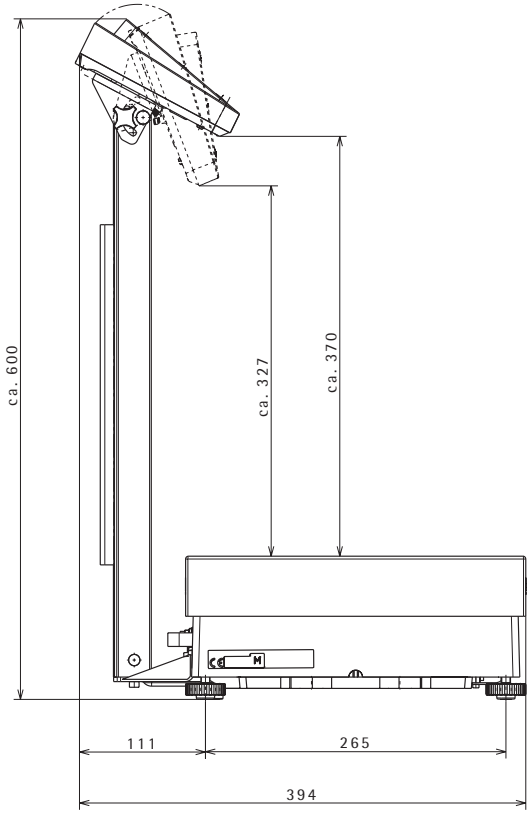


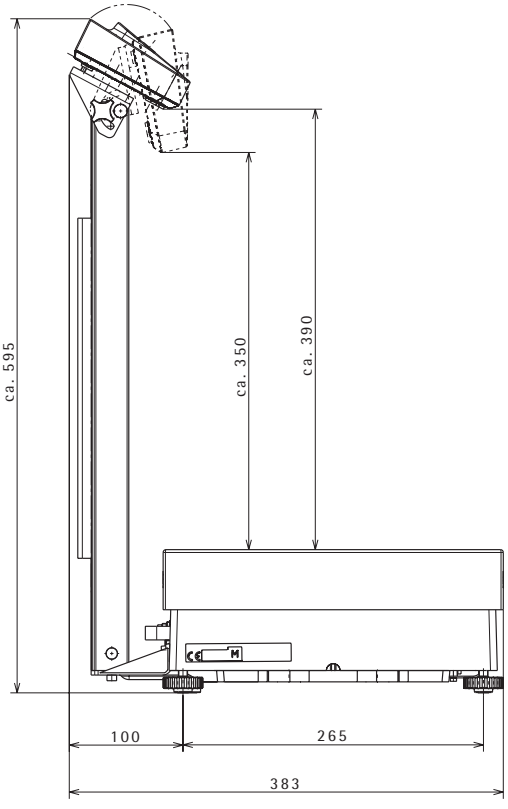




High-Capacity Precision Balances
All dimensions are given in millimeters







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