

Cubis[®] || Your Balance, Your Way

Simplifying Progress

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Cubis® II

The New Generation of Modular Premium Balances

For scientists in R&D or analytical laboratories needing the most reliable lab weighing results, the Cubis® II platform from Sartorius is a completely configurable, high-performance portfolio of both lab weighing hardware and software. The Cubis® II will align with your unique demands and compliance requirements to help maximize your operational efficiency and experimental outcomes.

The Cubis[®] II platform is the only laboratory balance with customizable hardware, software, and connectivity. It offers modern user interfaces, pharmaceutical and GxP compliance, including data handling, data integrity and connectivity, ergonomic sample handling, easy process integration, and unlimited communication at the highest level of accuracy and precision.

Customizable Modularity

- Thousands of hardware and software configurations supporting your personal preferences.
- Thematically structured software packages for your optimized workflows.
- Seamless connectivity and digital data management to diverse laboratory information systems without the need of additional software.
- Long-term flexibility guarantees adaptation of software and accesories to evolving regulatory and laboratory needs.

Intelligence by Design

- Built-in applications guide you through your workflows.
- Fast and easy leveling guaranteed with automatic, motorized leveling function.
- Innovative draft shield technology with motion | gesture
- sensor and memory function.
- Climate sensor for environmental monitoring. Built-in ionizer for automatic electrostatic
- elimination.
 Status Center for user notifications and alerts*.
- Ultramicro- and micro balances with innovative technology for top-edge performance.
 High-capacity micro balances offer benchmarking performance under real laboratory conditions.

Confident Compliance*

- Full data integrity following ALCOA+ principles.
- Complete traceability via advanced audit trail and reporting function for efficient reviews.
- Submission-ready data with remote data selection on web browser.
- User management including centralized password management support ("single-sign-on" via LDAP), high security password configuration, login rules.
- Electronic signature in compliance with 21 CFR Part 11.

Trusted Results

- Leading Performance
- High Speed Accuracy
- Error-Free Operations
- Full End-to-End Data Integrity
- Reliable Support



Customizable Modularity – Thousands of Configurations

In 2009, Sartorius introduced the first modular balance with the Cubis®, and today continues that tradition by offering the Cubis® II lab balance series featuring a completely modular design:

Weighing Modules

Choose from a range of 50 different weighing modules that best fit your preferences.

Draft Shields

Choose from 8 different options, depending on your balance type – each with unique features to support maximal balance performance and user-centric design.

Display

Choose between advanced and essential user interface, based on your weighing applications and requirements.

Software

With up to 60 QApps, and with continuous software development, we support your workflows now and in the future.



01 Ultra-Micro & Micro Balances

Max. capacity between 2.1 g and 10.1 g | scale interval with a range of 0.1 μ g to 1 μ g.

- Automatic, motorized, round, glass draft shield with learning capability, illumination and integrated motion sensor.
- Manual stainless steel draft shield for filter weighing applications.

02 High-capacity Micro Balances

Max. capacity between 32 g and 111 g | scale interval with a range of 0.001 mg to 0.002 mg.

- Glass draft shield with licensable built-in ionizer to eliminate electrostatic charges and licensable automatic draft shield function for fast and easy operation.
- Automated inner draft shield offered as an offered as an accessory guarantees performance under challenging environmental conditions.
- Integrated motion sensor for touch free operation.

03 Semi-Micro & Analytical Balances

Max. capacity between 120 g and 520 g | scale interval with a range of 0.01 mg to 0.1 mg.

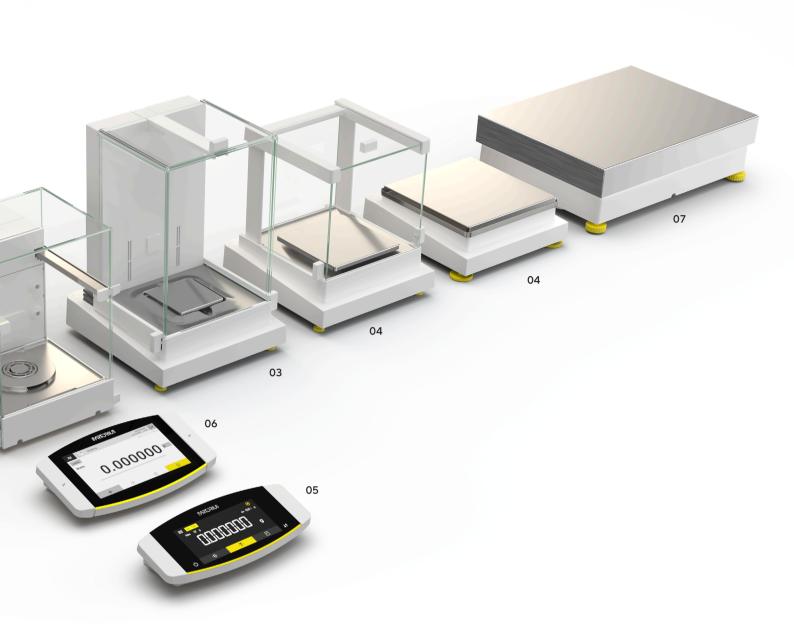
- Automatic glass draft shield with or without integrated ionizer to eliminate interfering electrostatic charges on samples and sample containers.
- Manual glass draft shield with smooth-action doors.

04 Precision Balances

Max. capacity between 320 g and 14,200 g | scale interval with a range of 1 mg to 100 mg.

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- Easy to use manual glass draft shield.
- Removable flat stainless steel draft shield frame (not shown in the picture).



05 MCE Essential User Interface

Touch display with factoryinstalled essential weighing applications for easy operation.

06 MCA Advanced User Interface

Large 7" color touch display including touch, scroll, swipe functionality with factory-installed essential weighing applications and diverse QApp Packages for optional software extension.

07 High-Capacity Balances

Max. capacity between 11200 g and 70,200 g | scale interval with a range of 100 mg to 1 g.

Software Options

Choose between different packages to fulfill your demands. Each package contains powerful applications or functions to enhance and individualize your balance for your workflows.

- QApp Package Pharma
- QApp Package Advanced Applications
- QApp Package Utilities
- QApp Package Connectivity
- All Inclusive QApp Package (with new orders only)

Find out more For more information, please visit www.sartorius.com/cubis-ii Intelligence by Design – Adaptable Lab Balance to Your Specific Needs

Onboard QApp Center

Choose your applications or individual balance functions from QApp packages clustered by different topics. License your selected package and integrate them into the tasks you can run on the balance.





Automatic, Motorized Leveling

Avoid the burdensome process of preparing your balance for use with the Cubis[®] II balance's quick and easy, motorized, auto-levelling function.

Gesture Control

The gesture sensor recognizes four gestures and can be positioned near the balance, directly in the flow of motion at your work space. It allows you to open and close the automatic draft shield, start the ionizer, or send a document to a device.

Ultra-Micro and Micro Balances

The world's first ultra-micro and micro balances with automatic motorized levelling, gesture controlled and illuminated draft shield, and titanium inner parts. Weighing ranges from 0.1 µg to 10.1 g.

NEW! High-Capacity Micro Balances

These balances offer outstanding weighing performance under real laboratory conditions, low minimum sample weight, intuitive cleaning thanks to the Cleaning QApp. Automatic motorized leveling and titanium inner parts. Weighing ranges from 1 µg to 111 g.











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	2019-01-25	14:14	
	Device information		
	Model name MCA224S-2S00-A Serial number 0000110114		
	Package number 09-03-01.12.01 CN:b236		1†
	QApp Center version 02.00.05		
s leveled	IP address 172.16.68.236		
leveling	Service information		
-			

Built-in Ionizer for Electrostatic Elimination

Remove balance stabilization frustrations caused by electrostatic effects with the built-in ionizing technology of the Cubis® II balance. Electrostatic charges on samples and vessels are removed effectively, just by pressing one key or automatically when the draft shield door closes.

Cleanability

Cleaning has never been easier in the new Cubis® II Ultra-High Resolution Balances. They come with a cleaning kit, and offer a toolfree disassembly. Additonally, every MCA model offers the Cleaning QApp that with its in-built guidance makes the cleaning process intuitive and hassle free.

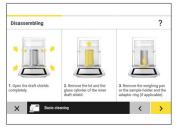
Status Center Notifications*

The Status Center shows all information about your balance and environmental conditions, e.g. calibration, leveling, temperature, humidity, air pressure and service, centralized in a dashboard. In case of warnings or errors, you get detailed help and support.

Sample Holders The great variety

The great variety of sample holders ensure that samples of various types (e.g. safe-lock tubes, vials, flask, syringes) can be weighed directly on the balance. In this way workflows can be executed much easier, safer and faster. Made of titanium, not only the highest material quality is guaranteed, but notably the repeatability is not jeopardized because of the non-magnetic properties.





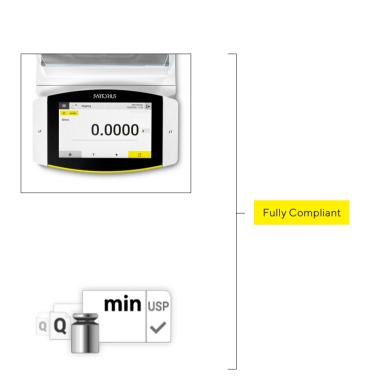




Confident Compliance – Complete Traceability

All data generated by the Cubis[®] II balance follow the key principles ALCOA (+), which defines data integrity standards and relates to GxPs. Therefore, the Cubis[®] II balance ensures safe and accurate data storage and supports all requirements for FDA directive 21 CFR part 11 and EU Annex 11 compliance.

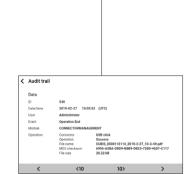
The Cubis[®] II balance, with pharma package, contains all the technical controls to support compliance with common regulations. Full compliance can be achieved with additional procedural controls and systems for long-term data storage.



\oslash	Data backup Add meta-data Create backup file File transfer	100%	0	
	File transfer successful OK			

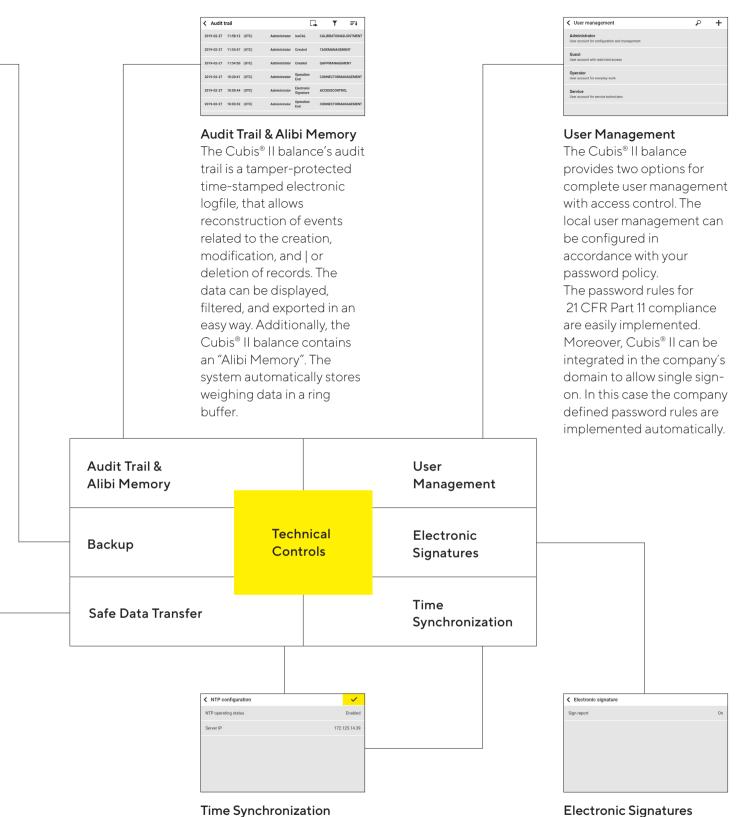
Backup

Cubis® II can automatically execute time-controlled actions for backup. The system is able to upload data on a file share or export the data to other systems. Archiving is easily possible and fully compliant.



Safe Data Transfer

An electronic record should be protected against any manipulation. The Cubis[®] II balance saves all files, together with a calculated MD5 checksum which is stored in the audit trail files and additionally in a separate MD5 file.



The Cubis[®] II balance

Time Protocol (NTP).

records.

An accurate time stamp

is elemental for trustable

supports automatic time

synchronization via Network

Electronic Signatures

In the Cubis[®] II balance, an electronic signature can be used to sign the final report for weighing processes. Based on a secure password, the combination of username and password is fully compliant with 21 CFR.

Configure Your Cubis® II Balance

User interface Weighing	module Approv	al Draft shield	QApp Pao	ckages	Hardv	vare Op	tions		
M C A 116		0 - D Q	P1 QP2	2 QP3	HWL	-			
	Leveling	Approval	Draft sh	ield				Software packages***	Hardware options *****
Balance type Weighing module***	automatic manual	S00, S01, CEU, CFR, CCN, OBR, OIN, OJP, or ORU	A D	E F	I M	R U	0	QP1, QP2, QP3, QP4 or QP99	HWL, ION or MDS
Ultramicro & micro 2.7S, 0.6S, 6.6S, 3.6P	•	•		-				•	
High-capacity micro 36S, 36P, 66S, 66P, 116S	•	***	•					•	•
Semimicro 2255, 225P, 125S, 125P	•	•	•		•	•	•	•	
Analytical 524S, 524P, 324S, 324P, 224S, 124S	•	•	•		•		•	•	
Precision 1 mg 5203S, 5203P, 3203S, 2203S, 2203P, 1203S, 623S, 623P, 323S	•	•	•	•	•	•	•	•	
Precision 10 mg 5202S	•	•	•	•	•		•	•	
Precision 10 mg 8202S, 6202S, 6202P, 4202S, 2202S, 1202S	•	•					-	•	
Precision 10 mg 32202P**, 14202S, 14202P, 10202S	•	•						•	
Precision 100 mg 5201S, 8201S	•							•	
Precision 100 mg 12201S	•	•					-	•	
High Capacity 70201S, 50201S, 36201S, 36201P, 20201S, 11201S, 70200S, 36200S	•	•					•	•	

* Generation code 3 for High-capacity micro balances, code 2 for all other balance categories

** Weighing module 32202P available with approvals S00 or S01 only

*** Software packages available for balances with MCA display only

**** Weighing module 116S available with MCA display only ***** No ORU approval

****** Hardware Options available for High-capacity micro balances only

User Interface	Description	Draft Shield	Description	Approval	Description	Hardware Options	Description
MCA	Advanced user interface	0	Balance without draft shield	S00	Standard version worldwide	HWL	All hardware licenses
MCE	Essential user interface	E	Small glass draft shield	S01	Standard only metric units	ION	lonizer
		R	Stainless steel draft shield frame	CEU	Verified version Europe (except FR)	MDS	Motorized draft shield
		U	Manual glass draft shield	CFR	Verified Version France		
		A	Motorized draft shield	CCN	Verified Version China		
		I	Motorized draft shield & lonizer	OBR	Verifiable Version Brazil		
		М	Motorized draft shield micro balances	OIN	Verifiable Version India		
		F	Filter draft shield micro balances	OJP	Verifiable Version Japan		
		D	Draft shield for High- capacity micro balances with upgradable hardware	ORU	Verifiable Version Russia		

OP1 The Pharma software application package contains applications concerning the topic min use Pharma compliance with pharmaceutical-relevant guidelines as 21 CFR Part 11 and USP 39, Chapter 41. The Pharma package includes applications such as user management, digital signatures, audit trail, USP minimum weight. QP2 The Advanced software application package includes various complex weighing Advanced applications incl. evaluation. This includes applications used for density determination, Applications percentage weighing, counting, backweighing, residual dirt analysis, residue on ignition, sieve analysis, filter weighing, checkweighing, formulation, averaging, etc. OP3 The Utility software application package contains weighing applications and function Utilities extensions such as bootscreen, color scheme, free formula, fiber coarseness, diameter determination, air buyoancy correction, paper weight, statistics and printing of QR | bar codes. QP4 The Connectivity software application package includes applications for data exchange, Server Connectivity for example to Windows file server, FTPS, StarLims, etc. QP99 The software application package All inclusive includes 4 different sub-packages for compliance (Pharma (QP1)), complex weighing applications (Advanced (QP2)), weighing applications and helpful tools (Utilities (QP3)) and connectors for data exchange (Connectivity (QP4)).

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