

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.

Trusted Results

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

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
- After purchase hardware upgradeability of Cubis[®] II MCA high-capacity and semi-micro balances

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 *available with the MCA interface

Find out more For more information, please visit www.sartorius.com/cubis-ii



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 more than 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.

Hardware

High-capacity micro and semi-micro balances are equipped with licensable motorized draft shield and ionizer. A manual or automatic inner draft shield is available as an accessory.



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 & Semi-Micro Balances

Max. capacity between 32 g and 220 g | scale interval with a range of 0.001 mg to 0.001 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 Analytical Balances & Semi-Micro Balance 125P

01

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

01

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

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

02

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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
- QApp Package Hardware for High-Capacity Micro and Semi-Micro Balances
- 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.

High-Capacity Micro and Semi-Micro Balances

These balances offer outstanding weighing performance under real laboratory conditions, low minimum sample weight and fast stabilization time. Automatic motorized leveling and titanium inner parts. Weighing ranges from 1 µg to 220 g.











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|-----------|--|---|----|
| | Device information | | |
| | Model name MCA224S-2S00-A Serial number 0000110114 Package number 09-03-01.12.01 CN:b236 QApp Center version 02.00.05 | | Ļţ |
| 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.

Disassembling ? Source data tabilités 1. Open the data tabilité 2. Bencore the lá da the data the d

Cleanability

Cleaning has never been

Balances. All MCA models

offer tool-free disassembly

with its in-built guidance

easy and traceable.

with all necessary

an accessory.

and the Cleaning QApp that

makes the cleaning process

Optional, the Cleaning kit

components is available as

easier with Cubis[®] II

Status Center Notifications*

The Status Center shows all information about your balance such as calibration, leveling, service and cleaning status and environmental conditions (temperature, humidity, air pressure) centralized in a dashboard.

In case of warnings or errors, you get detailed help and support.



Sample Holders

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 File transfer | 100% | Ø | |
|-----------|--|------|---|--|
| | File transfer successful | | | |
| | ок | | | |

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 supports automatic time synchronization via Network Time Protocol (NTP). An accurate time stamp is elemental for trustable records.

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 Packages | Hardware Options | | |
|---|------------------|---|---------------|------------------|----------------------------------|-------------------------|
| M C A 116 | - 3* S 0 | 0 - D Q | P1 QP2 QP3 | HWL | | |
| | Leveling | Approval | Draft shield | | Software packages*** | Hardware options ****** |
| Balance type Weighing module*** | automatic manual | S00, S01, CEU, CFR, CCN, OBR, OIN, OJP, or ORU | A D E F | IMRUO | QP1, QP2, QP3, QP4 or QP99 | HWL, ION or MDS |
| Ultramicro & micro 2.7S, 10.6S, 6.6S, 3.6P | • | • | • | • | • | |
| High-capacity micro 36S, 36P, 66S, 66P, 116S | • | **** | • | | | • |
| Semi-micro 125P ****** | • | • | | • • | • | |
| Semi-micro 226S, 225S, 225P, 125S | • | *** * | • | | • | • |
| 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 & semi-micro balances (except module 125P), 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 125P available with QP99 only) **** Weighing module 116S & 226S available with MCA display only ***** No ORU approval

****** Hardware Options available for High-capacity & semi-micro balances only (except module 125P)

******* Weighing module 125P available with approvals S00, S01 & CCN only

| User Interface | Description | Draft Shield | Description | Approval | Description | Hardware Options | Description |
|-------------------|-----------------------------|-----------------|---|----------------------------|--|---------------------|---------------------------|
| МСА | 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 | | |
| | | F | Filter draft shield micro balances | OJP | India Verifiable Version | | |
| | | D | Draft shield for High- capacity micro balances with upgradable hardware | ORU | Japan Verifiable Version Russia | | |
| Q | nin usp ✔ Pharma | comp Chap | harma software applica Iliance with pharmaceut ter 41. The Pharma pack tures, audit trail, USP mi | ical-releva age includ | nt guidelines as 21 CF es applications such a | R Part 11 and | d USP 39, |
| | △ | applic perce | dvanced software appli cations incl. evaluation. T entage weighing, countin veighing, checkweighin | This include ng, backwe | es applications used f eighing, residual dirt a | or density d | etermination, |
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QP4

codes.

The Connectivity software application package includes applications for data exchange, **Connectivity** for example to Windows file server, FTPS, etc.

QP10 The Hardware package offers licensable hardware functions such as motorized draft shield Hardware and ionizer at high-capacity micro & semi-micro balances (except for weighing module 125P)

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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