

Cubis® Optional Accessories

Printers and Communication

Verifiable data printer for connection to RS-232, 25-pin accessory interface	YDP10-OCE
Verifiable data printer with <i>Bluetooth</i> ® data transmission (with YD001MS-B or option IB only)	YDP10BT-OCE
Color ribbon for YDP10-OCE and YDP10BT-OCE	6906918
Paper rolls for printer YDP10-OCE; 5 rolls, each with 50 m	6906937
Data interface <i>Bluetooth</i> ® for wireless connection of data printer YDP10BT-OCE	YD001MS-B
RS-232C data interface, 9-pin including PS/2 for connecting a computer or keyboard	YD001MS-P
RS-232C data interface, 25-pin for connection of Cubis® accessories	YD001MS-R
Display cable, 3 m, for Cubis® MSA and MSU models, for remote setup of display and weighing unit (installation by Sartorius Service or in factory [order VF4016])	YCC01-MSD3
Display cable, 3 m, for Cubis® MSE models, for remote setup of display and weighing unit (installation by Sartorius Service or in factory [order VF4016])	YCC01-MSED3
Cable, 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, 3 m, for Cubis® models, for remote setup of display and weighing unit	VF4016
RS-232C interface cable to connect computer with a 9-pin COM port, length 1.5 m	7357314
SartoCollect software for data communication between balance and PC	YSC02

Displays and Input|Output Elements

MSA control unit with color TFT graphic display and touch screen	YAC01MSA
MSE display unit with backlit liquid-crystal and tactile keys	YAC01MSE
MSU control unit with backlit b w graphic display and tactile navigation keys	YAC01MSU
Barcode scanner with connecting cable, 120 mm reading range	YBR03PS2
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 plus minus measurements, incl. T-connector	YRD11Z

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Pipette Calibration Hardware and Software

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 microbalance weighing modules 6.6S and 3.6P Consists of moisture trap and all required adapters	VF988
Pipette Tracker pipette calibration software. Software and user manual in English.	YCP04-PT
Pipette Tracker Pro pipette calibration software. For use in regulated areas, networkable and validatable, according to the 21 CFR Part 11 regulations. Software and user manual in English.	YCP04-PTPro
Basic documents for validation (IQ, OQ) of Pipette Tracker Pro version. All documents are in English.	YCP04-VTK

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-microbalance or microbalance models (weighing modules 6.6S, 2.7S; only together with DF draft shield)	VF2562
Filter weighing pan, 90 mm diameter, for ultra-microbalance or microbalance models (weighing modules 6.6S, 2.7S; only together with DF draft shield)	VF2880
Ionization blower to eliminate electrostatic charges on sample containers and samples	YIB01-ODR
Stat-Pen ionization probe for discharging electrostatically charged samples and filters	YSTP01

Special Applications

Density determination kit for solids and liquids: for weighing modules with a readability < 1 mg	YDK01MS
Density determination kit for solids and liquids: for weighing modules with a readability = 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 hoods, safety weighing cabinets or workbenches (reduces exposure of the weighing pan to lift by strong air current; replaces standard weighing pan)	YWP03MS

Balance Tables

Balance table made of cast stone, for weighing with vibration dampening	YWT03
Wall console	YWT04
Balance table made of wood with cast-stone inset for precise, reliable weight measurements	YWT09

Weighing Accessories

Weighing scoop of chrome nickel steel, 90 × 32 × 8 mm	641214
Aluminum weighing scoop, 4.5 mg (250 units) for ultra-microbalance and microbalance models	6565-250
Aluminum weighing scoop, 52 mg (50 units) for ultra-microbalance and microbalance models	6566-50
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 weighing capacity ≥ 20 kg (not for models verified for use in legal metrology; selectable CE features)	69EA0040

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Cubis[®] MCM Manual Mass Comparators

Up to 1 kg



Order number, with uncalibrated climate sensors	MCM6.7	MCM36	MCM66	MCM106
Order number, with calibrated climate sensors and DAkkS certificate	MCM6.7-DAkkS	MCM36-DAkkS	MCM66-DAkkS	MCM106-DAkkS
Design	1	2	2	2
Maximum capacity	6.1 g	31 g	61 g	111 g
Readability	0.1 µg	1 µg	1 µg	1 µg
Range of use	0 – 6 g	0 – 30 g	0 – 60 g	0 – 111 g

Repeatability "s"

– under optimal conditions ¹⁾	0.15 µg	1 µg	1 µg	1 µg
– under standard conditions E ²⁾	0.3 µg	1.5 µg	2 µg	2 µg
– at 1/3 load ²⁾	0.2 µg			
– at 1/10 load ²⁾		0.7 µg	0.7 µg	0.7 µg
– under standard conditions F ³⁾	0.6 µg	4 µg	5 µg	5 µg
Electronic weighing tare range	6.1 g	31 g	61 g	61 g
Substitution weights				50 g
Linearity	1 µg	6 µg	8 µg	8 µg
Eccentric (off-center) load deviation	0.25 µg/mm	1 µg/mm	1 µg/mm	1 µg/mm
Stabilization time	10 s	3 s	3 s	5 s
Cycle time (ABA)	90 s	90 s	90 s	90 s

Standard Accessories

Data interfaces	RS-232C, USB, Ethernet, SD card (optional RS-232C, PS2, <i>Bluetooth</i> [®])
Draft shield	• • • •
Additional application programs	Weighing, mass unit conversion, individual identifiers, density determination, statistics
Port for below-balance weighing hook	• • • •
Climate sensors	Integrated into draft shield

Optional Accessories

Calibration weight	5 g E2 YCW352-00	20 g E2 YCW422-00	50 g E2 YCW452-00	50 g E2 YCW452-00
Climate module	YMC20MC	YMC20MC	YMC20MC	YMC20MC
Calibrated climate module	YMC20MC-DAkkS	YMC20MC-DAkkS	YMC20MC-DAkkS	YMC20MC-DAkkS
2nd draft shield	YDS20C	YDS24C	YDS24C	YDS24C
Balance table	YWT03	YWT03	YWT03	YWT03

Dimensions

Weighing pan size	∅ 16 mm	∅ 30 mm	∅ 30 mm	∅ 50 mm
Maximum object size (D×H)	16×70 mm	30×120 mm	30×120 mm	50×120 mm
Weigh cell (W×D×H)	122×343×141 mm	222×431×301 mm	222×431×301 mm	222×431×301 mm
Electronic unit (W×D×H)	239×320×56 mm	239×320×56 mm	239×320×56 mm	239×320×56 mm

Repeatability is the standard deviation "s"; it is calculated from 5 ABA cycles under the following conditions:

¹⁾ Optimal conditions: Automatic measurement without operator influence measured in a laboratory under E1 conditions, on a decoupled weighing stone, no drafts from above

²⁾ Standard conditions E: Measurement performed manually under a laboratory under E1 conditions, on a decoupled weighing stone, no drafts from above

³⁾ Standard conditions F: Measurement performed manually under a laboratory under at least F1 conditions, on a non-decoupled weighing stone, air conditioning and minimal drafts from above