SARTURIUS

Cubis® II MCA1005MC

Manual Mass Comparator

User Benefits

- Integrated workflow control for efficient and error-free mass comparison
- Fast measurement cycles according to the ABA, ABBA or AB_{1...B_n}A method

Highlighted Features

- Cubis® II MCA color touch screen for fast and simple configuration of parameters and workflows
- Integrated calibration workflows for ABA, ABBA, AB₁...B₀A cycles to ensure efficient, error-free mass comparison



- Fully integrated function for determining the measurement uncertainty in accordance with OIML and ASTM recommendations
- Filters for optimal adaptation of the mass comparator to ambient conditions
- Additional applications for density determination, statistics and individual identifiers are integrated as standard programs
- Automatic Motorized Leveling
- Easy logging of reference weight data

Technical Specifications

Metrological Specifications	
Maximum capacity	1110 g
Application range	0-1110 g
Electronic weighing range and tare range	610 g
Automatic substitution weight	500 g
Readability	10 μg
Repeatability, typical	15 μg
Repeatability, at nominal load (5 × ABA)	20 μg (1000 g)
Repeatability, at low load (5 × ABA)	15 μg (100g)
Linearity, tolerance	100 μg
Eccentric load deviation, typical	11.11 μg/mm (500 g)
Stabilization time, typical	3.5 s

Basic Equipment	
Interfaces	USB-A, USB-B and USB-C
isoCAL	Yes
Below-comparator weighing port	Yes
PC connection cable	USB-A
Hight reducing panel	Yes

Ambient Conditions	
Permissible operating temperature	5-40°C
Recommended operating temperature	22 °C
Temperature fluctuations	0.3 °C/h 0.5 °C/12 h
Max. air current	<0.2 m/s
Humidity range	40-80%
Humidity fluctuations	5% 4 h
Power supply	100-240 V; 50-60 Hz
Power consumption	64.5 W

Dimensions	
Weighing pan diameter	90 mm
Dimensions $(L \times W \times H)$	501 × 240 × 301 mm
Dimensions (L × W × H) with control unit removed	376.5 × 240 × 301 mm
Weight (approx.)	16 kg
Optimal height for setup	80 cm

Applications	
OIML calibration range RS	1000 g
OIML calibration range E1	200 g - 1000 g
OIML calibration range E2	20 g - 1000 g
OIML calibration range F1	500 mg - 1000 g
OIML calibration range F2	50 mg - 1000 g
OIML calibration range M1	1 mg - 1000 g
OIML calibration range M2	100 mg - 1000 g
OIML calibration range M3	1 g - 1000 g
ASTM E617 calibration range Class 000	300 g - 1000 g
ASTM E617 calibration range Class 00	200 g - 1000 g
ASTM E617 calibration range Class 0	50 g - 1000 g
ASTM E617 calibration range Class 1	20 g - 1000 g
ASTM E617 calibration range Class 2	20 g - 1000 g
ASTM E617 calibration range Class 3	500 mg - 1000 g
ASTM E617 calibration range Class 4	200 mg - 1000 g
ASTM E617 calibration range Class 5	20 mg - 1000 g
ASTM E617 calibration range Class 6	2 mg - 1000 g
ASTM E617 calibration range Class 7	10 mg - 1000 g

Optional Accessories	
External calibration weight	500 g E2 YCW552-02
Climate module, uncalibrated	YCM20MC
Calibration of a YCM20MC climate module with DAkkS calibration certificate	YCM20DAkkS
Climate module with DAkkS calibration certificate	YCM20MC-DAkkS
Tower for climate module, for mounting YCM20MC	YCM20MC-Tower
Weighing table	YWT03

Germany

Sartorius Lab Instruments GmbH & Co. KG Otto-Brenner-Strasse 20 37079 Goettingen Phone +49 551 308 0

⊕ For further information, visit

sartorius.com

USA

Sartorius Corporation 565 Johnson Avenue Bohemia, NY 11716 Phone +1 631 254 4249 Toll-free +1 800 635 2906