

UCM 5MC MASS COMPARATOR



Citizen®
ISO 9001 : 2008 CERTIFIED



UCM 5MC mass comparators enable calibration of mass patterns and weights ranged from 1mg to 5 g with readout precision from 0.1 µg. Comparators are equipped with built-in procedure of ABBA method for maximum 20 repetitions. after which a report containing the results is generated.

A modern weighing module with graphic display is responsible for control of comparator operating. UCM 5MC comparator is equipped with new software that is operated intuitively and user-friendly.

Comparator is also equipped with an esthetic and spacious glass weighing chamber with side and top doors. The chamber elements are made of glass and metal, which minimizes electrostatics influence on weighing result.

What is typical of UCM 5MC comparators, is a two-element structure with electronic module separated from high-precision mechanical measurement system.

Possibility of separating head from weighing chamber considerably reduces vibrations transfer to the chamber and thanks to possibility of locating it in optional place-it improves operating ergonomics and device operating comfort.

Comparators are used for providing coherence of mass measurements as well as for weights verification in accordance to legal metrology requirements. CITIZEN mass comparators won approval of calibrating laboratories of many countries in the world.

Technical Data :

UCM 5MC		 UCM 5MC
Max capacity	5.1g	1 mg
Electric balancing range	3.9 - 5.1g	2 mg
Readout precision	0.1 µg	5 mg
Repeatability*	0.4 µg	10 mg
Linearity	0.5 µg	20 mg
Pan size	Ø14mm	50 mg
Stabilization time	10 s	100 mg
Ballast weights	3g. 1g	200 mg
Calibration range	E1-M1: 1mg-5g	500 mg
	M2-M3: 1g - 5g	1 g
Sensitivity drifter	2ppm/C in temp+150° ±35°C	2 g
Operating temperature	+15° ±30°C	5 g
Maximal temperature changes	±0.5°C / 12h	10 g
Relative humidity	40 - 70%	20 g
Speed of humidity change	±5% / 4h	50 g
Supply	110+230V AC / 50+60Hz / 13.5+15V DC / 12W	100 g
Calibration	external	200 g
Display	graphic display	500 g
Interface	RS 232 / USB	1 kg
Net/Gross mass	10.2 / 14.7kg	2 kg
Packing size	565x565x355mm	5 kg
		10 kg
		20 kg
		50 kg
		100 kg
		200 kg
		500 kg
		1000 kg

* 6 cycles ABBA

Additional equipment :

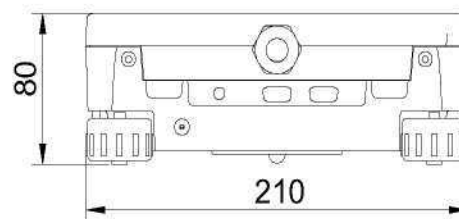
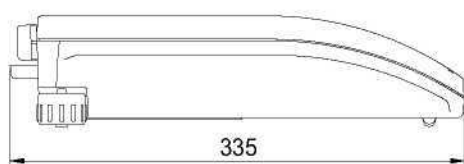
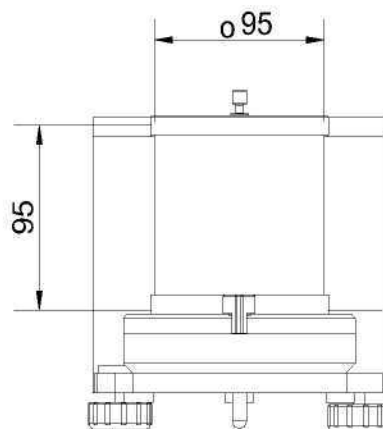
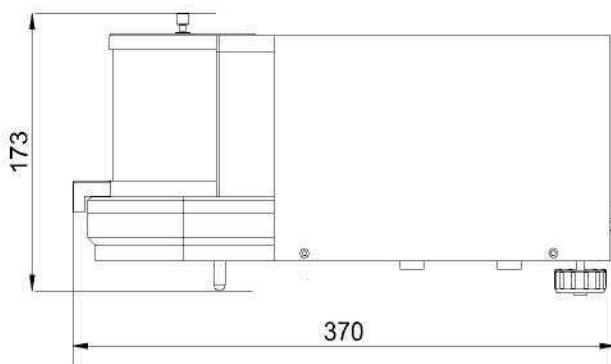
External calibration weight

Weightrack Computer Software

Temperature and weighing chamber humidity sensor



Microbalances CM & UCM series is equipped with infrared sensors enabling opening of measuring chamber door and activating user defined functions of tare or printout.



WORLDWIDE MARKETING:

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