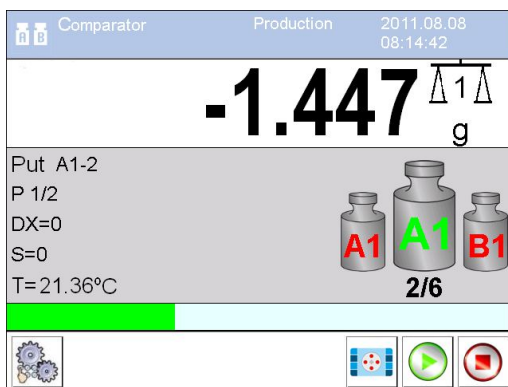


AUTOMATIC MASS COMPARATOR AKM-2

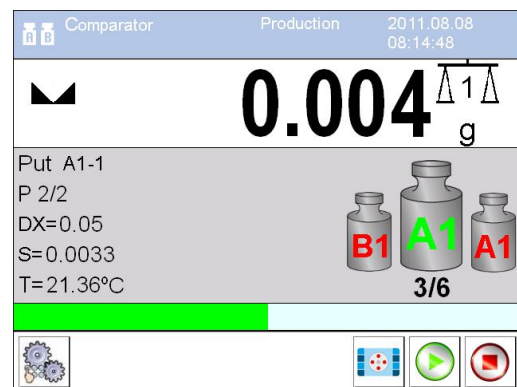


Mass comparators AKM-2/X series featuring automatic mass loaders enable automatic determining of mass deviations of a single weight in a single cycle. The AKM-2/X is designed to compare weights from 5 kg to 50 kg. The system of automatic mass comparator is commonly applicable in mass measuring laboratories, and particularly in certification units for weights classes E, F and M.

The supervising part of a mass comparator is a digital module which cooperates with a controller of instrument's mechanical components. The automatic mass loader features a basis with self-centring fields, a robot and steel body. The digital module and the robot are located in mass comparator's weighing chamber. The robot is controlled by the computer's controller. The instrument is operated from level of mass indicating digital display which is plugged to mass comparator's controller. Lengthwise shift of the robot with weights is carried out automatically using solenoid actuators. Additional software functions enable loading and taking off the weights, data processing and storing, and data export to instrument's memory.



Weight loaded on instrument's platform by the robot



Measurement record

Technical specification:

	AKM-2/10	AKM-2/20	AKM-2/50
E1	2 kg ÷ 10 kg	5 kg ÷ 20 kg	20 kg ÷ 50 kg
E2	500 g ÷ 10 kg	1 kg ÷ 20 kg	5 kg ÷ 50 kg
F1	500 g ÷ 10 kg	1 kg ÷ 20 kg	5 kg ÷ 50 kg
F2	500 g ÷ 10 kg	1 kg ÷ 20 kg	5 kg ÷ 50 kg
M1	-	-	-
M2	-	-	-
Max capacity	10,2 kg	20,5 kg	51 kg
Reading interval	0,1 mg	0,1 mg	1 mg
Repeatability*	0,2 mg	0,4 mg	2 mg
Electric compensation range	- 100 g ÷ +200 g	+/- 500 g	+/- 1000 g
Supplementary weights	5 kg; 3 kg; 1 kg; 0,5 kg	10 kg; 5 kg; 3 kg; 1 kg	30 kg; 10 kg; 5 kg
Stabilization time	30 s		
Adjustment	external		
Power supply	13,5 ÷ 16 V DC / 2,1 A		
Pan size	ø70 mm		ø100 mm
Weighing unit dimensions	1220 × 1050 × 700 mm		
Control unit dimensions	350 × 200 × 400 mm		
Packaging size automatic load alternator kitu	1050×770×1320 mm		
Net weight/Gross weight (comparator)	30 kg / 59 kg	39 kg / 68 kg	60 kg / 94 kg
Net weight/Gross weight (automatic load alternator kit)	230 kg / 350 kg	235 kg / 352 kg	250 kg / 380 kg
Ambient conditions:			
Working temperature	+10° ÷ +40°C		
Change rate of working temperature	± 0,5°C/12h		
Atmospheric humidity	40% ÷ 60%		
Change rate of atmospheric humidity	± 2% / 12h		

* Repeatability expressed as standard deviation from 6 measuring cycles ABBA (according to OIML R111) in stable laboratory operating conditions.

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