AUTOMATIC MASS COMPARATOR AK-4

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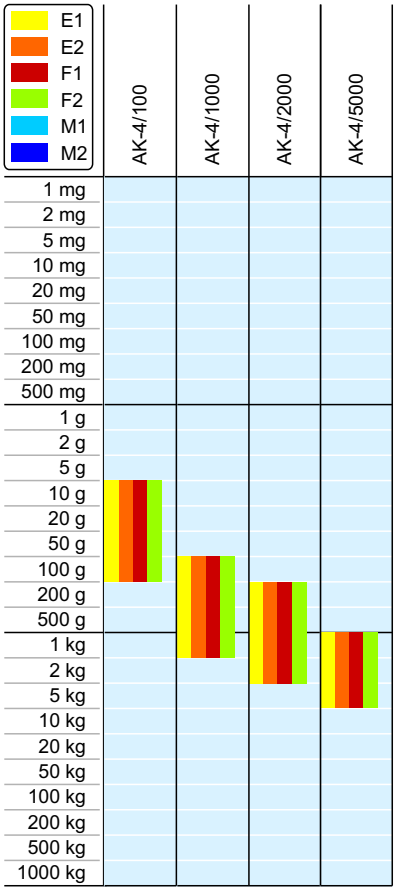
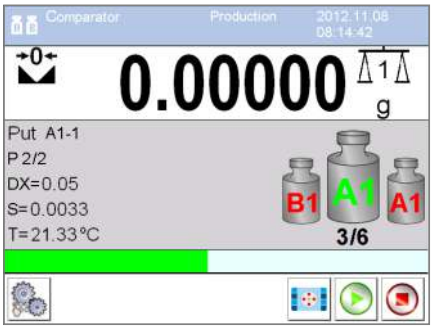
Automatic mass comparators series AK-4/X are intended to automatic determination of mass deviations in weights with operator's activity limited to the minimum. The comparators enable determining deviations of three tested weights in a signle cycle. AK-4/X are designed to compare weights from 100 g to 1 kg. The instruments are commonly applicable in mass measuring laboratories, and particularly in certification units for weights classes E and F.



The supervising part of a mass comparator is a digital module which cooperates with a controller of instrument's mechanical components. The digital module and the automatic loader are located in mass comparator's weighing chamber. The instrument is operated from level of mass indicating digital display which is plugged to mass comparator's contoller. The supervising elements are not integrated with mass comparator's mechanical parts, thus enabling separation of instrument's weighing chamber from ambient conditions influence.



Measurement record

Technical data:

	AK-4/100	AK-4/1000	AK-4/2000	AK-4/5000
Max capacity	110 g	1,2 kg	2,02 kg	5,05 g
Readability	0,001 mg	0,01 mg	0,01 mg	0,02 mg
Repeatability*	0,002 mg	0,02 mg	0,03 mg	0,05 mg
Electric compensation range	-1g ÷ +10 g	-10g ÷ +20 g	-10g ÷ +20 g	-10g ÷ +50 g
Supplementary weights internal	50 g; 30 g; 10 g	500 g; 300 g; 100 g	1 kg; 500 g; 300 g	3 kg; 1 kg
Stabilization time	20 s			
Adjustment/calibration	external			
Power supply	13,5 ÷ 16 V DC / 2,1 A			
Pan size	ø 30 mm	ø 50 mm	ø 70 mm	ø 70 mm
Weighing unit dimensions	385 × 215 × 420 mm			
Control unit dimensions	206 × 140 × 70 mm			
Net weight/Gross weight	25 kg / 41 kg			
Packaging size	860 × 760 × 560 mm			
Ambient conditions:				
Working temperature	+10° ÷ +40°C			
Change rate of working temperatures	± 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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