

Mass comparators EWP-ZN

Elektroniczne Wagi Przemysłowe (Electronic Industrial Scales) is a manufacturer of portable mass comparators of its own design. This unique and innovative design is patented - with application number 387046.



EWP-ZN mass comparator have been designed to calibration of standard weights in M1 class: 100kg, 200kg, 500kg, 1000kg, 2000kg, 2500kg and 5000kg

Target audience: calibration laboratories, standard weights rentals, companies with standard weights for own use



● Technical parameters of the EWP-ZN mass comparator

EWP-ZN mass comparator consists of :

1. Measure head with a load cell of a special precision
2. Electronic weight indicator TRIKOMP with high external resolution - up to 1 000 000 divisions
3. Thermostatic system, which is used to stabilize temperature during measurement

	EWP-ZN 100/200/500	EWP-ZN 500/1000	EWP-ZN 1000	EWP-ZN 2000/2500	EWP-ZN 5000
Max capacity	110 / 220 / 530 kg	530 / 1030 kg	1030 kg	2100 / 2600 kg	5100 kg
standard division	1 / 2 / 5 g	5 / 10 g	10 g	20 / 50 g	50 g
high resolution division	0,1 / 0,2 / 0,5 g	0,5 / 1 g	1 g	2 / 5 g	5 g
calibration range	M1: 100 / 200 / 500 kg	M1: 500 / 1000 kg	M1: 1000 kg	M1: 2000 / 2500 kg	M1: 5000 kg
stabilization time	10 s				
working temperature	- 10°C / + 40°C				
max temperature changes	10°C na 12 h				
calibration	external				
display	7 digit, red LED 13 mm				
interface	1 x RS232				
power supply	240 V AC				
size	Ø 200 x 190 mm + 2 x 120 mm holders				
net weight / gross weight	10,5 / 40 kg				
cabinet dimensions	350 x 350 x 1000 mm				

Version to standard weights F2 class available soon!

www.komparator.com.pl
www.masscomparator.eu

Calibration of standard weights in M1 class with the use of mass comparator EWP-ZN is done by a series of comparative measurements in the A-B-B-A technique. Standard weights in F2 class are used as a reference weight in the measurements. Standard weights are suspended below the mass comparator.

Main features EWP-ZN mass comparator:

- compact design
- easy to transport and installation
- quick preparation for the calibration
- very high accuracy and repeatability measurements
- self-centering
- easy measurement data export to Excel and Access

Scope use:

M1	100 kg	200 kg	500 kg	1000 kg	2000 kg	2500 kg	5000 kg
EWP-ZN 100/200/500	■	■	■				
EWP-ZN 500 / 1000			■	■			
EWP-ZN 1000				■	■		
EWP-ZN 2000 / 2500					■	■	
EWP-ZN 5000							■



phone +48 58 340-00-61 do 65 | fax +48 58 739-54-70 | biuro@ewp.com.pl
ul. Zacna 31 | 80-283 Gdańsk | Poland

Elektroniczne Wagi Przemysłowe - Electronic Industrial Scales

Mass comparators EWP-ZN

● System components:

- mass comparator EWP-ZN with a chosen measuring range
- electronic weight indicator TRIKOMP
- thermostatic system with control panel
- wooden transport case
- certified slings and shackles
- connection accessories
- calibration certificate issued by the Polish Office of Weights and Measures
- declaration of conformity



Version to standard weights F2 class available soon!

www.komparator.com.pl
www.masscomparator.eu



● Testing and calibration certificates:

Mass comparators EWP-ZN have been tested by the Mass Laboratory, Department of Mechanics and Acoustics, the Central Office of Measures in Warsaw. Certificates of expertise confirm the high accuracy and repeatability of the measurements by the release of their decision of applicability to the calibration of standard weights in the M1 class.

Model	Load	Standard deviation
ZN - 500 / 1000	500 / 1000 kg	1,0 / 1,2 g
ZN - 2000 / 2500	2000 kg	9 g
ZN - 5000	5000 kg	5,5 g

Each of the EWP-ZN mass comparators, prior to shipping to the customer, is calibrated by the Faculty of Mass Forces of Length and Angle Measures in the Regional Office of Gdańsk - the customer receives a Certificate of Calibration.

● Options:

We offer also fully equipped laboratory for calibration:

1. Software to PC allowing:

- setup and calibration of the mass comparator
- easy measurement data export to Excel or Access database
- keeping records of measurements and metrics standard weights
- software for measurement of sling geometr

2. Control station for environmental measurements (wired or wireless version):

- temperature measurement
- air pressure measurement
- relative humidity measurement

3. Reference standard weights of 500 and 1000 kg made from stainless steel in F2 class with certificate of calibration of Polish Office of Weights and Measures

4. Staff trainings including use the mass comparator, measurement and reporting



phone +48 58 340-00-61 do 65 | fax +48 58 739-54-70 | biuro@ewp.com.pl
ul. Zacna 31 | 80-283 Gdańsk | Poland

Elektroniczne Wagi Przemysłowe - Electronic Industrial Scales