

# MENSOR

Industrial  
Platform  
Laboratory  
Scales  
Catalogue



2012

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## About MENSOR company

*MENSOR is research and production company in the fields of measurement: mass, force, displacement, and low pressure, it has new design and new technological solutions in the field of inductive load cell and electronic scales. This research works has been following since 14 years and MENSOR company was created in 1977 year. Achieved experience in production measuring transmitters, electronic systems and computing programs permit to solve difficulty task in the fields of metrology and control systems. The main research and application subject is: "Inductive method for measure of mass".*

## New inductive method for measure of mass

All electronic scales of MENSOR company based on a new inductive method of measuring mass and inductive load cells of Polish production - we do not import from China strange gauge load cells. The main advantage of method regarding strange gauge electronic scales are as follow:

- high mechanical resistance to overload - for small measurement ranges up to 1000% - possible large sizes of pan.
- high accuracy resulting from the smaller than in the strain gauge transducers of measuring strain inside the beam - the resolution of 1mg
- small size and high resistance to overload the inductive measuring beams
- many times less own weight than the analogous scales equipped in weighing electromagnet system
- inductive beam is many times more resistant to side impact than the strain gauge beams

### These advantages have been verified

- as a result of fifteen years of production of inductive scales on Polish and German market
- by the Central Office of Weights and Measures Certificate of EC type-approval No PN 06 003
- by Polish Centre for Testing and Certification CE Certificate No. MD - 220/1/2009

-  by the users - Consumer Laurel Brown 2005
- inductive measurement system has been nominated in the competition of the Polish Product of the Future 1998 (in the category of product of the future)

Research on the Inductive method of measuring masses were co-financed by EU funds within the three national research projects and is currently continuing in an international project EUROSTARS E! 4637 - EXCALE.

## Platform and Storage Scales

Electronic platform scales, warehouse-based measurement inductive system particularly suitable for use in industrial environments due to its high resistance to mechanical overload, see introduction. These scales with ranges from 3 kg to 400 kg have the Certificate of EC type-approval No PL 003 2006 Central Office of Measures in Warsaw and on request a copy of each scales can be equipped with an EC type Examination certificate type WE (legalization) issued by the County Office of Weights and Measures in Warsaw.

Depending on the application of these scales the display unit may be variously located:

- combined with the scale of two-meter cable, an indication of P1



**example of P1 type**

- connected to the base scale, an indication of P2



**example of P2 type**

- mounted on a pole, the designation P3 **example of P3 type**



- mounted on a pole, the designation P4 example of P4 type



**Application example:**

Storage of electronic weighing platforms are made of stainless steel or can be lined with a special wear-resistant lining.

**Storage Scale WM(3-6kg)P2 15X17S**



**Functions and features of the scale:**



Additional stabilization result



Counting pieces



Remembering last result



Checkweighing



Backlit display



5 years warranty on load cell



2 years warranty



Possible legalization

**Overview:**

Storage scale is equipped with large backlight liquid crystal display, adjustable legs. Pan is removable and made from stainless steel. Scale features: tare, remember the last result of weighing, checkweighing, counting pieces with same unit mass on the basis of sample 1-500pcs, and an additional filter - this feature enables stable reading during of weighing moving objects or ground vibrations.

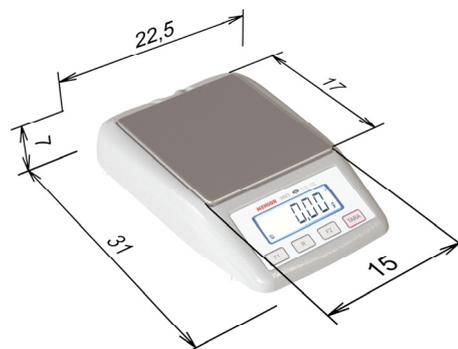
**Technical specification:**

Type	WM3P2 15X17S	WM6P2 15X17S
Max capacity	3kg	6kg
Min capacity	20g	40g
Tare range	-3kg	-6kg
Display resolution	1g / 0,2g	2g / 0,4g
Time stability indications	1-3s	
Mass	2kg	
Working temperature	+10°C - +40°C	
Storage temperature	-20°C - +60°C	
Dimension of pan	15x17cm	
Overall dimensions	22,5x31x7cm	
IP rating	IP54	
Power supply	stabilized adapter 12V/100mA	
Price	580,00zł	590,00zł

**Additional options:**

- up to 50h on lion battery power to continuously work
- RS 232 with cable 2m
- RS 485
- Genie program - [description](#)
- signal tower

**Figure - Overall dimensions and weight pan [cm]:**



**Platform scale WM(3-30kg) P1 30X40S**

**Functions and features of the scale:**


Additional stabilization result



Counting pieces



Remembering last result



Checkweighing



Backlit display



5 years warranty on load cell



2 years warranty



Possible legalization

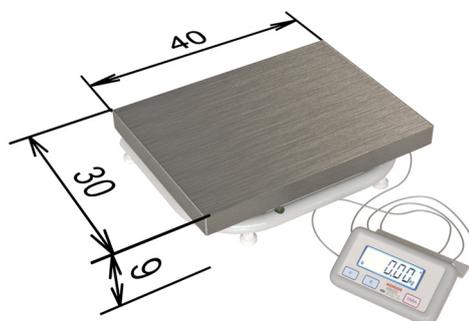
**Overview:**

Platform scale is equipped with large backlight liquid crystal display, adjustable legs. Pan is removable and made from stainless steel. Scale features: tare, remember the last result of weighing, checkweighing, counting pieces with same unit mass on the basis of sample 1-500pcs, and an additional filter - this feature enables stable reading during of weighing moving objects or ground vibrations.

Technical specification:	WM3P1 30X40S	WM6P1 30X40S	WM15P1 30X40S	WM30P1 30X40S
Max capacity	3kg	6kg	15kg	30kg
Min capacity	20g	40g	100g	200g
Tare range	-3kg	-6kg	-15kg	-30kg
Display resolution	0,2g / 1g	0,4g / 2g	1g / 5g	2g / 10g
Time stability indications	1-3s			
Mass	5,5kg			
Working temperature	+10°C - +40°C			
Storage temperature	-20°C - +60°C			
Dimension of pan	30x40cm			
Overall dimensions	30x40x9cm			
IP rating	scale platform IP 53, box with display IP 54			
Power supply	stabilized adapter 12V/100mA			
Price	720,00 zł			

**Additional options:**

- up to 50h on lion battery power to continuously work
- RS 232 with cable 2m
- RS 485
- Genie program - [description](#)
- signal tower
- higher IP rating for scale platform (IP 65)

**Figure - Overall dimensions and weight pan [cm]:**


**Platform scale WM(3-30kg)P2 30X40S**



**Functions and features of the scale:**



Additional stabilization result



Counting pieces



Remembering last result



Checkweighing



Backlit display



5 years warranty on load cell



2 years warranty



Possible legalization

**Overview:**

Platform scale is equipped with large backlight liquid crystal display, adjustable legs. Pan is removable and made from stainless steel. Scale features: tare, remember the last result of weighing, checkweighing, counting pieces with same unit mass on the basis of sample 1-500pcs, and an additional filter - this feature enables stable reading during of weighing moving objects or ground vibrations.

<b>Technical specification:</b>	<b>WM3P1 30X40S</b>	<b>WM6P1 30X40S</b>	<b>WM15P1 30X40S</b>	<b>WM30P1 30X40S</b>
Max capacity	3kg	6kg	15kg	30kg
Min capacity	20g	40g	100g	200g
Tare range	-3kg	-6kg	-15kg	-30kg
Display resolution	0,2g / 1g	0,4g / 2g	1g / 5g	2g / 10g
Time stability indications	1-3s			
Mass	5,5kg			
Working temperature	+10°C - +40°C			
Storage temperature	-20°C - +60°C			
Dimension of pan	30x40cm			
Overall dimensions	30x40x9cm			
IP rating	scale platform IP 53, box with display IP 54			
Power supply	stabilized adapter 12V/100mA			
Price	720,00 zł			

**Additional options:**

- up to 50h on lion battery power to continuously work
- RS 232 with cable 2m
- RS 485
- Genie program - [description](#)
- signal tower
- higher IP rating for scale platform (IP 65)

**Figure - Overall dimensions and weight pan [cm]:**



**Platform scale WM(3-30kg)P2 30X40S**



**Functions and features of the scale:**



Additional stabilization result



Counting pieces



Remembering last result



Checkweighing



Backlit display



5 years warranty on load cell



2 years warranty



Possible legalization

**Overview:**

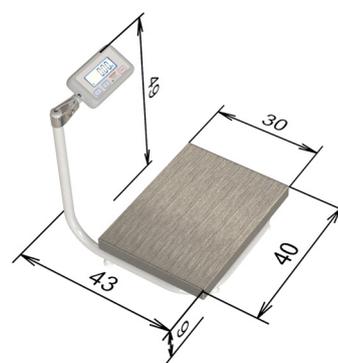
Platform scale is equipped with large backlight liquid crystal display, adjustable legs. Pan is removable and made from stainless steel. Scale features: tare, remember the last result of weighing, checkweighing, counting pieces with same unit mass on the basis of sample 1-500pcs, and an additional filter - this feature enables stable reading during of weighing moving objects or ground vibrations.

Technical specification:	WM3P3 30X40S	WM6P3 30X40S	WM15P3 30X40S	WM30P3 30X40S
Max capacity	3kg	6kg	15kg	30kg
Min capacity	20g	40g	100g	200g
Tare range	-3kg	-6kg	-15kg	-30kg
Display resolution	0,2g / 1g	0,4g / 2g	1g / 5g	2g / 10g
Time stability indications	1-3s			
Mass	5,5kg			
Working temperature	+10°C - +40°C			
Storage temperature	-20°C - +60°C			
Dimension of pan	30x40cm			
Overall dimensions	30x43x49cm			
IP rating	scale platform IP 53, box with display IP 54			
Power supply	stabilized adapter 12V/100mA			
Price	750,00 zł			

**Additional options:**

- up to 50h on lion battery power to continuously work
- RS 232 with cable 2m
- RS 485
- Genie program - [description](#)
- signal tower
- higher IP rating for scale platform (IP 65)

**Figure - Overall dimensions and weight pan [cm]:**



**Platform scale WM(60-150kg)P2 30X40S**



**Functions and features of the scale:**

-  Additional stabilization result
-  Counting pieces
-  Remembering last result
-  Checkweighing
-  Backlit display
-  5 years warranty on load cell
-  2 years warranty
-  Possible legalization

**Overview:**

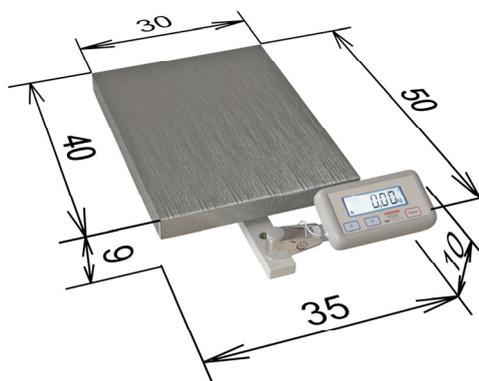
Platform scale is equipped with large backlight liquid crystal display, adjustable legs. Pan is removable and made from stainless steel. Scale features: tare, remember the last result of weighing, checkweighing, counting pieces with same unit mass on the basis of sample 1-500pcs, and an additional filter - this feature enables stable reading during of weighing moving objects or ground vibrations.

Technical specification:	WM60P2 30X40S	WM150P2 30X40S
Max capacity	60kg	150kg
Min capacity	400g	1kg
Tare range	-60kg	-150kg
Display resolution	4g / 20g	10g / 50g
Time stability indications	1-3s	
Mass	9,5kg	
Working temperature	+10°C - +40°C	
Storage temperature	-20°C - +60°C	
Dimension of pan	30x40cm	
Overall dimensions	35x50x10cm	
IP rating	scale platform IP 53, box with display IP 54	
Power supply	stabilized adapter 12V/100mA	
Price	790,00 zł	

**Additional options:**

- up to 50h on lion battery power to continuously work
- RS 232 with cable 2m
- RS 485
- Genie program - [description](#)
- signal tower
- higher IP rating for scale platform (IP 65)

**Figure - Overall dimensions and weight pan [cm]:**



**Platform scale WM(60-150kg)P2 30X40S**



**Functions and features of the scale:**

- 

Additional stabilization result
- 

Counting pieces
- 

Remembering last result
- 

Checkweighing
- 

Backlit display
- 

5 years warranty on load cell
- 

2 years warranty
- 

Possible legalization

**Overview:**

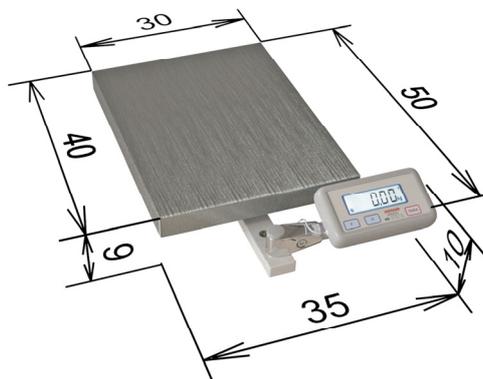
Platform scale is equipped with large backlight liquid crystal display, adjustable legs. Pan is removable and made from stainless steel. Scale features: tare, remember the last result of weighing, checkweighing, counting pieces with same unit mass on the basis of sample 1-500pcs, and an additional filter - this feature enables stable reading during of weighing moving objects or ground vibrations.

Technical specification:	WM60P2 30X40S	WM150P2 30X40S
Max capacity	60kg	150kg
Min capacity	400g	1kg
Tare range	-60kg	-150kg
Display resolution	4g / 20g	10g / 50g
Time stability indications	1-3s	
Mass	9,5kg	
Working temperature	+10°C - +40°C	
Storage temperature	-20°C - +60°C	
Dimension of pan	30x40cm	
Overall dimensions	35x50x10cm	
IP rating	scale platform IP 53, box with display IP 54	
Power supply	stabilized adapter 12V/100mA	
Price	790,00 zł	

**Additional options:**

- up to 50h on lion battery power to continuously work
- RS 232 with cable 2m
- RS 485
- Genie program - [description](#)
- signal tower
- higher IP rating for scale platform (IP 65)

**Figure - Overall dimensions and weight pan [cm]:**



**Platform scale WM(60-150kg)P1 50X90S**



**Functions and features of the scale:**

-  Additional stabilization result
-  Counting pieces
-  Remembering last result
-  Checkweighing
-  Backlit display
-  5 years warranty on load cell
-  2 years warranty
-  Possible legalization

**Overview:**

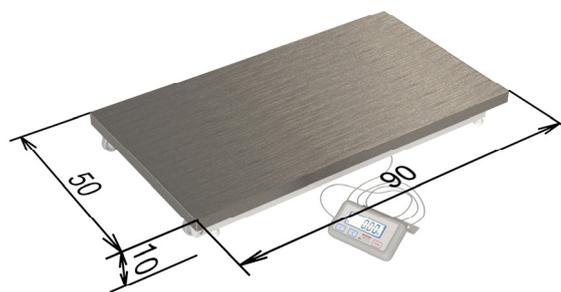
Platform scale is equipped with large backlight liquid crystal display, adjustable legs. Pan is removable and made from stainless steel. Scale features: tare, remember the last result of weighing, checkweighing, counting pieces with same unit mass on the basis of sample 1-500pcs, and an additional filter - this feature enables stable reading during of weighing moving objects or ground vibrations.

Technical specification:	WM60P1 50X90S	WM150P1 50X90S
Max capacity	60kg	150kg
Min capacity	400g	1kg
Tare range	-60kg	-150kg
Display resolution	4g / 20g	10g / 50g
Time stability indications	1-3s	
Mass	18,5kg	
Working temperature	+10°C - +40°C	
Storage temperature	-20°C - +60°C	
Dimension of pan	50x90cm	
Overall dimensions	50x90x10cm	
IP rating	scale platform IP 53, box with display IP 54	
Power supply	stabilized adapter 12V/100mA	
Price	1300,00 zł	

**Additional options:**

- up to 50h on lion battery power to continuously work
- RS 232 with cable 2m
- RS 485
- Genie program - [description](#)
- signal tower
- higher IP rating for scale platform (IP 65)

**Figure - Overall dimensions and weight pan [cm]:**



**Platform scale WM(60-150kg)P2 30X40S**



**Functions and features of the scale:**

-  Additional stabilization result
-  Counting pieces
-  Remembering last result
-  Checkweighing
-  Backlit display
-  5 years warranty on load cell
-  2 years warranty
-  Possible legalization

**Overview:**

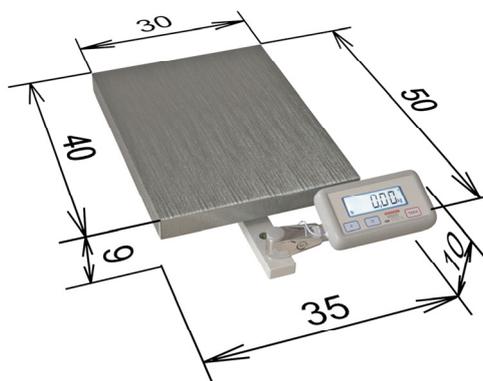
Platform scale is equipped with large backlight liquid crystal display, adjustable legs. Pan is removable and made from stainless steel. Scale features: tare, remember the last result of weighing, checkweighing, counting pieces with same unit mass on the basis of sample 1-500pcs, and an additional filter - this feature enables stable reading during of weighing moving objects or ground vibrations.

Technical specification:	WM60P2 30X40S	WM150P2 30X40S
Max capacity	60kg	150kg
Min capacity	400g	1kg
Tare range	-60kg	-150kg
Display resolution	4g / 20g	10g / 50g
Time stability indications	1-3s	
Mass	9,5kg	
Working temperature	+10°C - +40°C	
Storage temperature	-20°C - +60°C	
Dimension of pan	30x40cm	
Overall dimensions	35x50x10cm	
IP rating	scale platform IP 53, box with display IP 54	
Power supply	stabilized adapter 12V/100mA	
Price	790,00 zł	

**Additional options:**

- up to 50h on lion battery power to continuously work
- RS 232 with cable 2m
- RS 485
- Genie program - [description](#)
- signal tower
- higher IP rating for scale platform (IP 65)

**Figure - Overall dimensions and weight pan [cm]:**



**Platform scale WM(30-150kg)P2 40X50S**

**Functions and features of the scale:**


Additional stabilization result



Counting pieces



Remembering last result



Checkweighing



Backlit display



5 years warranty on load cell



2 years warranty



Possible legalization

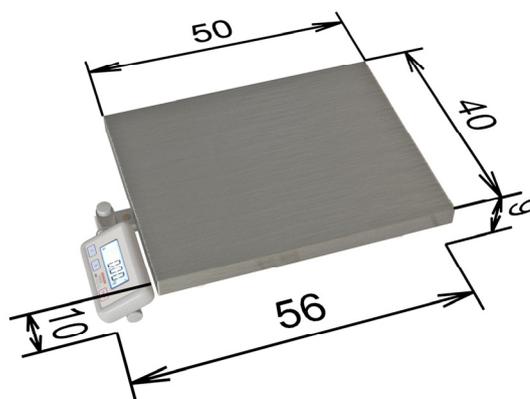
**Overview:**

Platform scale is equipped with large backlight liquid crystal display, adjustable legs. Pan is removable and made from stainless steel. Scale features: tare, remember the last result of weighing, checkweighing, counting pieces with same unit mass on the basis of sample 1-500pcs, and an additional filter - this feature enables stable reading during of weighing moving objects or ground vibrations.

Technical specification:	WM30P2 40X50S	WM60P2 40X50S	WM150P2 40X50S
Max capacity	30kg	60kg	150kg
Min capacity	200g	400g	1kg
Tare range	-30kg	-60kg	-150kg
Display resolution	2g / 10g	4g / 20g	10g / 50g
Time stability indications	1-3s		
Mass	9,9kg		
Working temperature	+10°C - +40°C		
Storage temperature	-20°C - +60°C		
Dimension of pan	40x50cm		
Overall dimensions	42x56x10cm		
IP rating	scale platform IP 53, box with display IP 54		
Power supply	stabilized adapter 12V/100mA		
Price	790,00 zł		

**Additional options:**

- up to 50h on lion battery power to continuously work
- RS 232 with cable 2m
- RS 485
- Genie program - [description](#)
- signal tower
- higher IP rating for scale platform (IP 65)

**Figure - Overall dimensions and weight pan [cm]:**


**Platform scale WM(30-150kg)P3 30X40S**



**Functions and features of the scale:**

-  Additional stabilization result
-  Counting pieces
-  Remembering last result
-  Checkweighing
-  Backlit display
-  5 years warranty on load cell
-  2 years warranty
-  Possible legalization

**Overview:**

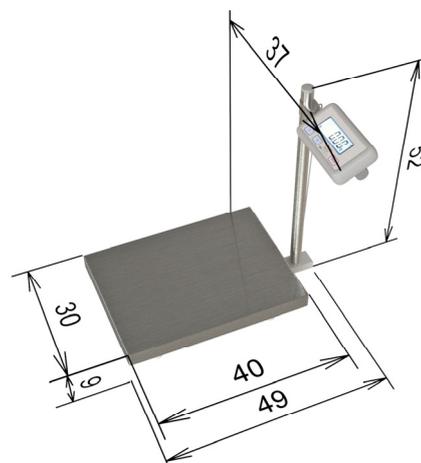
Platform scale is equipped with large backlight liquid crystal display, adjustable legs. Pan is removable and made from stainless steel. Scale features: tare, remember the last result of weighing, checkweighing, counting pieces with same unit mass on the basis of sample 1-500pcs, and an additional filter - this feature enables stable reading during of weighing moving objects or ground vibrations.

Technical specification:	WM30P3 30X40S	WM60P3 30X40S	WM150P3 30X40S
Max capacity	30kg	60kg	150kg
Min capacity	200g	400g	1kg
Tare range	-30kg	-60kg	-150kg
Display resolution	2g / 10g	4g / 20g	10g / 50g
Time stability indications	1-3s		
Mass	10,5kg		
Working temperature	+10°C - +40°C		
Storage temperature	-20°C - +60°C		
Dimension of pan	30x40cm		
Overall dimensions	37x49x52cm		
IP rating	scale platform IP 53, box with display IP 54		
Power supply	stabilized adapter 12V/100mA		
Price	790,00 zł		

**Additional options:**

- up to 50h on lion battery power to continuously work
- RS 232 with cable 2m
- RS 485
- Genie program - [description](#)
- signal tower
- higher IP rating for scale platform (IP 65)

**Figure - Overall dimensions and weight pan [cm]:**



**Platform scale WM(30-150kg)P3 40X50S**

**Functions and features of the scale:**


Additional stabilization result



Counting pieces



Remembering last result



Checkweighing



Backlit display



5 years warranty on load cell



2 years warranty



Possible legalization

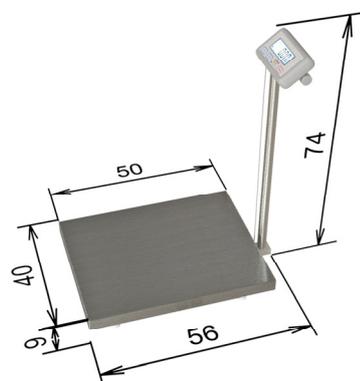
**Overview:**

Platform scale is equipped with large backlight liquid crystal display, adjustable legs. Pan is removable and made from stainless steel. Scale features: tare, remember the last result of weighing, checkweighing, counting pieces with same unit mass on the basis of sample 1-500pcs, and an additional filter - this feature enables stable reading during of weighing moving objects or ground vibrations.

<b>Technical specification:</b>	<b>WM30P3 40X50S</b>	<b>WM60P3 40X50S</b>	<b>WM150P3 40X50S</b>
Max capacity	30kg	60kg	150kg
Min capacity	200g	400g	1kg
Tare range	-30kg	-60kg	-150kg
Display resolution	2g / 10g	4g / 20g	10g / 50g
Time stability indications	1-3s		
Mass	10,9kg		
Working temperature	+10°C - +40°C		
Storage temperature	-20°C - +60°C		
Dimension of pan	40x50cm		
Overall dimensions	40x56x74cm		
IP rating	scale platform IP 53, box with display IP 54		
Power supply	stabilized adapter 12V/100mA		
Price	900,00 zł		

**Additional options:**

- up to 50h on lion battery power to continuously work
- RS 232 with cable 2m
- RS 485
- Genie program - [description](#)
- signal tower
- higher IP rating for scale platform (IP 65)

**Figure - Overall dimensions and weight pan [cm]:**


**Platform scale WM(30-150kg)P4 40X50S**

**Functions and features of the scale:**


Additional stabilization result



Counting pieces



Remembering last result



Checkweighing



Backlit display



5 years warranty on load cell



2 years warranty



Possible legalization

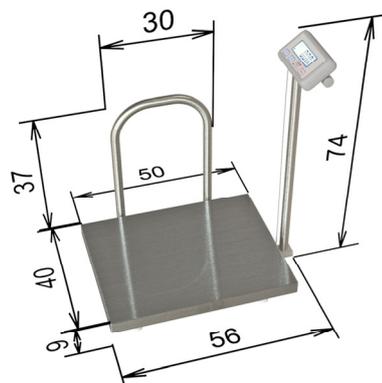
**Overview:**

Platform scale is equipped with large backlight liquid crystal display, adjustable legs. Pan is removable and made from stainless steel. Scale features: tare, remember the last result of weighing, checkweighing, counting pieces with same unit mass on the basis of sample 1-500pcs, and an additional filter - this feature enables stable reading during of weighing moving objects or ground vibrations.

Technical specification:	WM30P4 40X50S	WM60P4 40X50S	WM150P4 40X50S
Max capacity	30kg	60kg	150kg
Min capacity	200g	400g	1kg
Tare range	-30kg	-60kg	-150kg
Display resolution	2g / 10g	4g / 20g	10g / 50g
Time stability indications	1-3s		
Mass	11,5kg		
Working temperature	+10°C - +40°C		
Storage temperature	-20°C - +60°C		
Dimension of pan	40x50cm		
Overall dimensions	40x56x74cm		
IP rating	scale platform IP 53, box with display IP 54		
Power supply	stabilized adapter 12V/100mA		
Price	1000,00 zł		

**Additional options:**

- up to 50h on lion battery power to continuously work
- RS 232 with cable 2m
- RS 485
- Genie program - [description](#)
- signal tower
- higher IP rating for scale platform (IP 65)

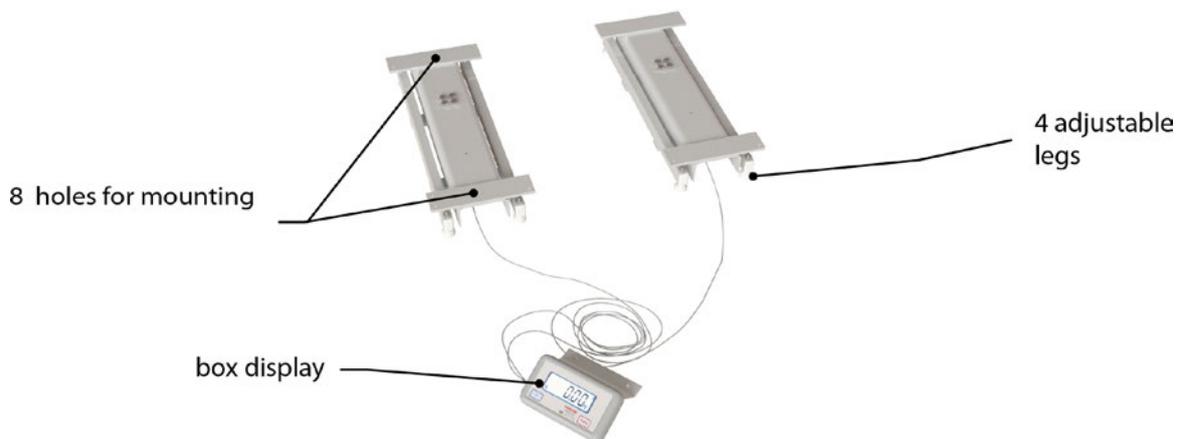
**Figure - Overall dimensions and weight pan [cm]:**


## Electronic Platform Scales with larger pan

Electronic platform scales built using the inductive measuring beams are a special, unique group of scales which is impossible to implement on the basis of the strain gauge load cells. High resistance to overload the inductive load cells, axial and weave (twine) moments allows for the construction of weighing platforms of almost any size in the range of loads to 500kg. Over it is possible to build large platform with a small capacity and high resolution. Below are shown examples of platform scales, which do not close all the possible design solutions.

### Platform scales - modules

A large group of platform scales can be built (even by the user) using the platform modules scales and plates Fig. 1 (platform) - the scale does not need a base made from steel - making it relatively lightweight



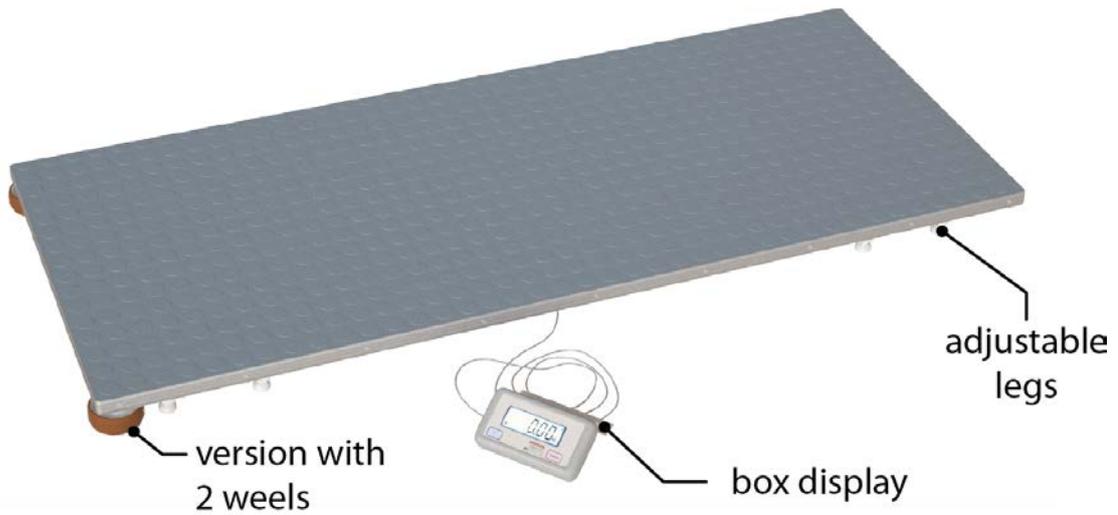
**Fig.1 Two modules of the weight platform and the display assemble**



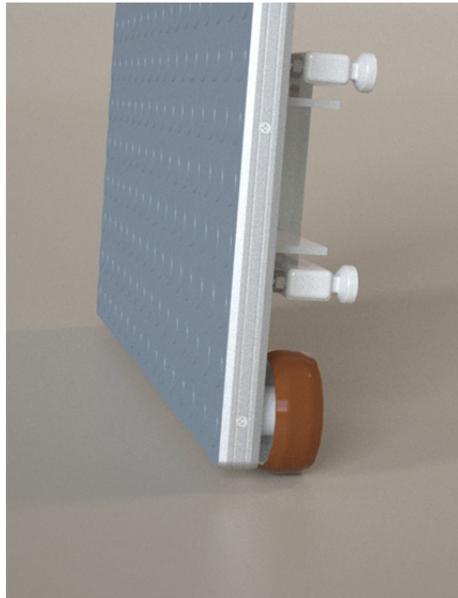
**Fig. 2 Weighing platform, eg. panel of plywood**



**Fig. 3 Wheel bolted to the platform, along the longer or shorter side (in the case need to move the scale)**



**Fig. 4 Scale platform; you see two wheels along the shorter side of the scale; platform covered with rubber lining; on the side of scale there is the display unit;**



**Fig. 5 Moving the scale on the wheels**

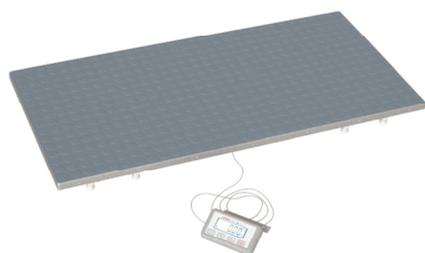
Electronic platform scales are equipped with the following features: an additional filtration, by remembering the last weighing and counting of elements.

Note: The possible implementation of smaller measuring ranges for example, 3kg, 30kg, 60kg .... with large dimensions and a platform made from stainless steel or corrugated aluminum.



**Platform scales covered with corrugated aluminum**

**Platform Scale WM150P1 60X120G**



**Functions and features of the scale:**



Additional stabilization result



Counting pieces



Remembering last result



Checkweighing



Mini USB



Backlit display



5 years warranty on load cell



2 years warranty



Possible legalization

Price contact as

**Overview:**

The pan of scale platform is covered with grooved rubber, can also be made ??of stainless steel. The display on the cable 2m with a stand that can also be hanged. Other elements of scale are covered with bright pearl powder coating. The scale may have wheels, which facilitate the shipment of scale.

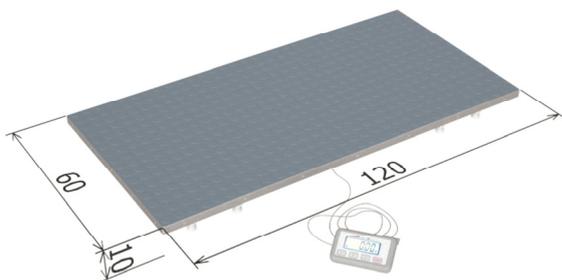
**Technical specification:** WM150P1 WM200P1 WM300P1 WM400P1

Max capacity	150kg	200kg	300kg	400kg
Min capacity	2kg	4kg	8kg	10kg
Tare range	-150kg	-200kg	-300kg	-400kg
Display resolution	50g	100g	200g	400g
Time stability indications	1-3s			
Mass	-			
Working temperature	+10°C - +40°C			
Storage temperature	-20°C - +60°C			
Dimension of pan	see to table on next page			
Overall dimensions	height 10cm			
IP rating	scale platform IP 53, box with display IP 54			
Power supply	zasilacz stabilizowany, 12V/100mA			

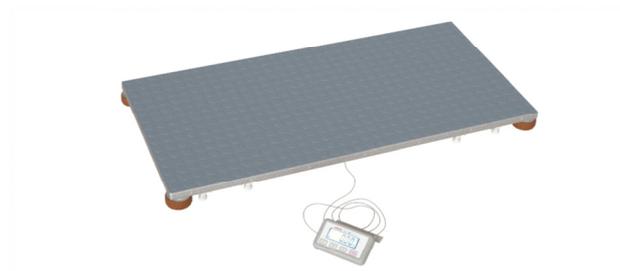
**Additional options:**

- up to 50h on lion battery power to continuously work
- RS 232 with cable 2m
- RS 485
- Genie program - [description](#)
- signal tower
- higher IP rating for scale platform (IP 65)

**Figure - Overall dimensions and weight pan in example of WM150P1 60X120G[cm]:**



**Scale platform version with three supporting wheels**



**Possible diemension of pan (with ranges:  
150kg,200kg,300kg,400kg):**

60x120cm 70x120cm  
60x130cm 70x130cm  
60x140cm 70x140cm  
60x150cm 70x150cm  
60x160cm 70x170cm  
60x170cm 70x170cm  
60x180cm 70x180cm  
60x190cm 70x190cm

MENSOR Poland, 04-689 Warsaw, Węglarska 50, tel/fax +48 22 613-08-74, tel.+48 22 424-33-23 [www.mensor.pl](http://www.mensor.pl) ;  
[mensor@mensor.pl](mailto:mensor@mensor.pl) [2011-10-05]

## Laboratory and industrial scales class II with automatic calibration.

*developed with the help of the Secretariat of the EU EUROSTARS and the National Center for Research and Development*



Laboratory scale connected to the computer.

Series Class II scales based on the modernized inductive measuring beams, which have been testing in manufacturing class III scales since 1990 and based on the original construction of a new type of beam IMB2 (*Inductive measuring beam made from two beams*)



Inductive load cell.

A special group of class II scales with high capacity (60kg to 400kg), which are not produced by any company in worldwide

Modular construction - the scale of the smallest capacity 25g has the same measurement system like scale with a capacity of 400kg

Similarly, the original group is the II class scales with ranges from 25 g to 5 kg which are at present manufactured by all company using electromagnetic servo-motor. Implementation of these scales based on the inductive measurement beam greatly

simplifies the mechanical construction, increases reliability, **increases the resistance to external mechanical overload up to 1000%** and reduces manufacturing costs. The maximum resolution of 50 000 obtained in this series is sufficient in most practical applications



**Laboratory scale range 250g, safety overload 10kg.**

**Class II laboratory and industrial series of scales can be divided into three groups:**

- the scales of measuring ranges from 25 g to 150 g equipped in typical inductive measuring beam and automatic calibration system with a round pan diameter of 80 mm



**Laboratory scales with small load capacities 25-50g.**

- the scales of measuring ranges from 150 g to 5 kg equipped in typical inductive measuring beam and automatic calibration system with rectangular pans made from stainless steel dimensions of 150x170 mm.



**Laboratory scales with automatic calibration from 150g to 5kg.**

- the scales with measuring ranges from 10 kg to 250 kg have a new type of inductive measurement beam IMB2 and internal automatic calibration system, these scales have an outer mechanical design as the scales class III, described on the page [www.mensor.pl](http://www.mensor.pl) , moreover it is possible to use here large and light platform scales eg. 1,2x2,5 m



**Laboratory and Industrial Scales, Class II mounted in their enclosures scale class III.**

**Laboratory Scale LWM (25-50g)**



**Functions and features of the scale:**

-  Additional stabilization result
-  Counting pieces
-  Remembering last result
-  Backlit display
-  2 years warranty
-  Possible legalization

**Overview:**

Laboratory Scale LWM is equipped with backlight liquid crystal display, adjustable legs. Pan is removable, is made of stainless steel. Scale features: tare, remember the last result of weighing, counting pieces with same unit mass on the basis of sample 1 - 500pcs, and an additional filter - this feature enables stable reading during of weighing moving objects or ground vibrations.

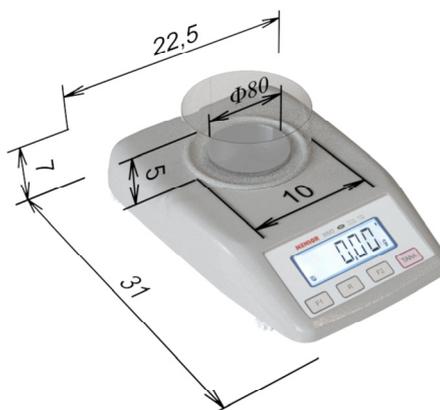
**Technical specification:**

	LWM0025	LWM0050	LWM0050D
Max capacity	25g	50g	50g
Min capacity	0,02g	0,04g	0,02g
Tare range	-25g	-50g	-50g
Verification Unit (e)	0,01g	0,02g	0,01g
Reading unit (d)	0,001g	0,002g	0,001g
Time stability indications	1-3s		
Mass	2,5kg		
Working temperature	+10°C - +40°C		
Storage temperature	-20°C - +60°C		
Dimension of pan	Ø8cm		
Overall dimensions	22,5x31x12cm		
Calibration	Automatic control calibration		
IP rating	scale platform IP 53		
Power supply	stabilized adapter 12V/100mA		

**Additional options:**

- up to 50h on lion battery power to continuously work
- RS 232 with cable 2m
- RS 485
- Genie program - [description](#)

**Figure - Overall dimensions and weight pan [cm]:**



**Laboratory Scale LWM (150-500g)**



**Functions and features of the scale:**

-  Additional stabilization result
-  Counting pieces
-  Remembering last result
-  Checkweighing
-  Backlit display
-  5 years warranty on load cell
-  2 years warranty
- 

**Overview:**

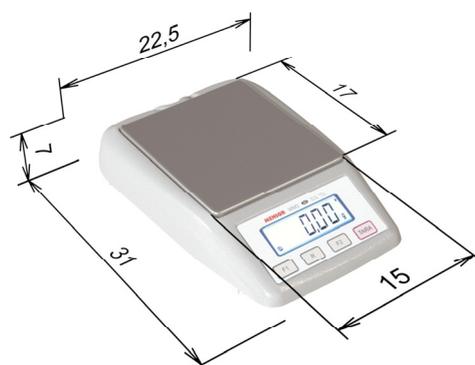
Laboratory Scale LWM is equipped with backlight liquid crystal display, adjustable legs. Pan is removable, is made of stainless steel. Scale features: tare, remember the last result of weighing, counting pieces with same unit mass on the basis of sample 1 - 500pcs, and an additional filter - this feature enables stable reading during of weighing moving objects or ground vibrations.

Technical specification:	LWM015P2 15X17	LWM025P2 15X17	LWM015P2 15X17	LWM05DP2 15X17
Max capacity	150g	250g	500g	500g
Min capacity	1g	1g	5g	5g
Tare range	-150g	-250g	-500g	-500g
Verification Unit (e)	0,05g	0,05g	0,1g	0,1g
Reading unit (d)	0,005g	0,01g	0,02g	0,01g
Time stability indications	1-3s			
Mass	2,8kg			
Working temperature	+10°C - +40°C			
Storage temperature	-20°C - +60°C			
Dimension of pan	15x17cm			
Overall dimensions	22,5x31x7cm			
Calibration	automatic calibration			
IP rating	IP 54			
Power supply	stabilized adapter 12V/100mA			

**Additional options:**

- up to 50h on lion battery power to continuously work
- RS 232 with cable 2m
- RS 485
- Genie program - [description](#)

**Figure - Overall dimensions and weight pan [cm]:**



**Laboratory Scale LWM (1-5kg)**



**Functions and features of the scale:**

-  Additional stabilization result
-  Counting pieces
-  Remembering last result
-  Checkweighing
-  Backlit display
-  5 years warranty on load cell
-  2 years warranty
- 

**Overview:**

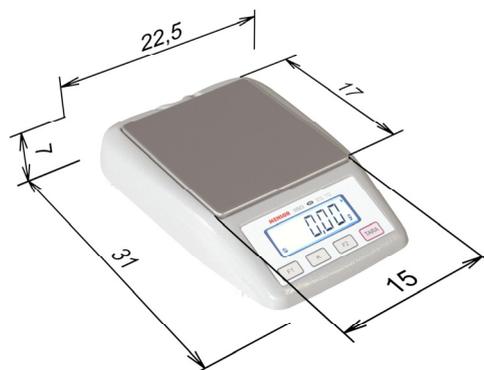
Laboratory Scale LWM is equipped with backlight liquid crystal display, adjustable legs. Pan is removable, is made of stainless steel. Scale features: tare, remember the last result of weighing, checkweighing, counting pieces with same unit mass on the basis of sample 1 - 500pcs, and an additional filter - this feature enables stable reading during of weighing moving objects or ground vibrations.

Technical specification:	LWM1P2 15X17	LWM2,5P2 15X17	LWM5P2 15X17	LWM5DP2 15X17
Max capacity	1kg	2,5kg	5kg	5kg
Min capacity	10g	25g	50g	50g
Tare range	-1kg	-2,5kg	-5kg	-5kg
Verification Unit (e)	0,2g	0,5g	1g	1g
Reading unit (d)	0,1g	0,1g	0,2g	0,1g
Time stability indications	1-3s			
Mass	2,8kg			
Working temperature	+10°C - +40°C			
Storage temperature	-20°C - +60°C			
Dimension of pan	15x17cm			
Overall dimensions	22,5x31x7cm			
Calibration	Automatic control calibration			
IP rating	IP 54			
Power supply	stabilized adapter 12V/100mA			

**Additional options:**

- up to 50h on lion battery power to continuously work
- RS 232 with cable 2m
- RS 485
- Genie program - [description](#)

**Figure - Overall dimensions and weight pan [cm]:**



**Industrial Scale LWM (2,5-25kg) P1**



**Functions and features of the scale:**

- Additional stabilization result
- Counting pieces
- Remembering last result
- Checkweighing
- Backlit display
- 5 years warranty on load cell
- 2 years warranty
- 

**Overview:**

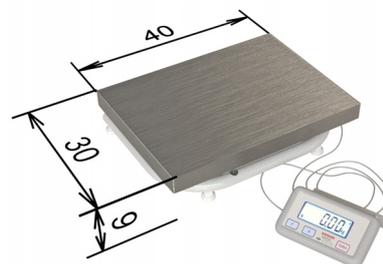
Laboratory Scale LWM is equipped with backlight liquid crystal display, adjustable legs. Pan is removable, is made of stainless steel. Scale features: tare, remember the last result of weighing, checkweighing, counting pieces with same unit mass on the basis of sample 1 - 500pcs, and an additional filter - this feature enables stable reading during of weighing moving objects or ground vibrations.

Technical specification:	LWM2,5P1 30X40S	LWM5P1 30X40S	LWM5DP1 30X40S	LWM10P1 30X40S	LWM25P1 30X40S
Max capacity	2,5kg	5kg	5kg	10kg	25kg
Min capacity	25g	50g	50g	100g	250g
Tare range	-2,5kg	-5kg	-5kg	-5kg	-5kg
Verification Unit (e)	0,5g	1g	1g	2g	5g
Reading unit (d)	0,1g	0,2g	0,1g	1g	1g
Time stability indications	1-3s				
Mass	6kg				
Working temperature	+10°C - +40°C				
Storage temperature	-20°C - +60°C				
Dimension of pan	30x40cm				
Overall dimensions	30x40x9cm				
Calibration	Automatic control calibration				
IP rating	scale platform IP 53, box with display IP 54				
Power supply	stabilized adapter 12V/100mA				

**Additional options:**

- up to 50h on lion battery power to continuously work
- RS 232 with cable 2m
- RS 485
- Genie program - [description](#)
- higher IP rating for scale platform (IP 65)

**Figure - Overall dimensions and weight pan [cm]:**



**Industrial Scale LWM (2,5-25kg) P2**



**Functions and features of the scale:**

-  Additional stabilization result
-  Counting pieces
-  Remembering last result
-  Checkweighing
-  Backlit display
-  5 years warranty on load cell
-  2 years warranty
- 

**Overview:**

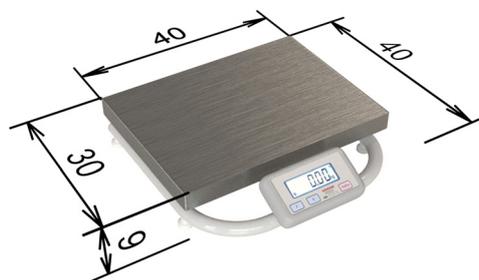
Laboratory Scale LWM is equipped with backlight liquid crystal display, adjustable legs. Pan is removable, is made of stainless steel. Scale features: tare, remember the last result of weighing, checkweighing, counting pieces with same unit mass on the basis of sample 1 - 500pcs, and an additional filter - this feature enables stable reading during of weighing moving objects or ground vibrations.

Technical specification:	LWM2,5P2 30X40S	LWM5P2 30X40S	LWM5DP2 30X40S	LWM10P2 30X40S	LWM25P2 30X40S
Max capacity	2,5kg	5kg	5kg	10kg	25kg
Min capacity	25g	50g	50g	100g	250g
Tare range	-2,5kg	-5kg	-5kg	-5kg	-5kg
Verification Unit (e)	0,5g	1g	1g	2g	5g
Reading unit (d)	0,1g	0,2g	0,1g	1g	1g
Time stability indications	1-3s				
Mass	6kg				
Working temperature	+10°C - +40°C				
Storage temperature	-20°C - +60°C				
Dimension of pan	30x40cm				
Overall dimensions	40x40x9cm				
Calibration	Automatic control calibration				
IP rating	IP 54				
Power supply	stabilized adapter 12V/100mA				

**Additional options:**

- up to 50h on lion battery power to continuously work
- RS 232 with cable 2m
- RS 485
- Genie program - [description](#)
- higher IP rating for scale platform (IP 65)

**Figure - Overall dimensions and weight pan [cm]:**



**Industrial Scale LWM (2,5-25kg) P3**



**Functions and features of the scale:**



Additional stabilization result



Counting pieces



Remembering last result



Checkweighing



Backlit display



5 years warranty on load cell



2 years warranty



**Overview:**

Laboratory Scale LWM is equipped with backlight liquid crystal display, adjustable legs. Pan is removable, is made of stainless steel. Scale features: tare, remember the last result of weighing, checkweighing, counting pieces with same unit mass on the basis of sample 1 - 500pcs, and an additional filter - this feature enables stable reading during of weighing moving objects or ground vibrations.

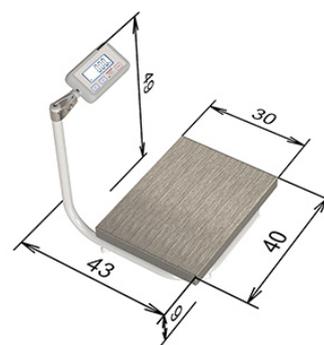
**Technical specification:**

	LWM2,5P3 30X40S	LWM5P3 30X40S	LWM5DP3 30X40S	LWM10P2 30X40S	LWM25P2 30X40S
Max capacity	2,5kg	5kg	5kg	10kg	25kg
Min capacity	25g	50g	50g	100g	250g
Tare range	-2,5kg	-5kg	-5kg	-5kg	-5kg
Verification Unit (e)	0,5g	1g	1g	2g	5g
Reading unit (d)	0,1g	0,2g	0,1g	1g	1g
Time stability indications	1-3s				
Mass	6,2kg				
Working temperature	+10°C - +40°C				
Storage temperature	-20°C - +60°C				
Dimension of pan	30x40cm				
Overall dimensions	43x40x49cm				
Calibration	Automatic calibration				
IP rating	scale platform IP 53, box with display IP 54				
Power supply	stabilized adapter 12V/100mA				

**Additional options:**

- up to 50h on lion battery power to continuously work
- RS 232 with cable 2m
- RS 485
- Genie program - [description](#)
- higher IP rating for scale platform (IP 65)

**Figure - Overall dimensions and weight pan [cm]:**



**Industrial Scale LWM (25-100kg) P1**



**Functions and features of the scale:**

-  Additional stabilization result
-  Counting pieces
-  Remembering last result
-  Checkweighing
-  Backlit display
-  5 years warranty on load cell
-  2 years warranty
- 

**Overview:**

Industrial Scale LWM is equipped with backlight liquid crystal display, adjustable legs. Pan is removable, is made of stainless steel. Scale features: tare, remember the last result of weighing, checkweighing, counting pieces with same unit mass on the basis of sample 1 - 500pcs, and an additional filter - this feature enables stable reading during of weighing moving objects or ground vibrations.

**Technical specification:**

	LWM25P1 40X50S	LWM50P1 40X50S	LWM50DP1 40X50S	LWM100P1 40X50S
Max capacity	25kg	50kg	50kg	100kg
Min capacity	250g	500g	500g	1000g
Tare range	-25kg	-50kg	-50kg	-5kg
Verification Unit (e)	5g	10g	10g	20g
Reading unit (d)	1g	2g	1g	10g
Time stability indications	1-3s			
Mass	9kg			
Working temperature	+10°C - +40°C			
Storage temperature	-20°C - +60°C			
Dimension of pan	40x50cm			
Overall dimensions	40x50x10cm			
Calibration	Automatic control calibration			
IP rating	scale platform IP 53, box with display IP 54			
Power supply	stabilized adapter 12V/100mA			

**Additional options:**

- up to 50h on lion battery power to continuously work
- RS 232 with cable 2m
- RS 485
- Genie program - [description](#)
- higher IP rating for scale platform (IP 65)

**Figure - Overall dimensions and weight pan [cm]:**

