

USER MANUAL

ITKU-123-02-04-22-EN



SERIES:

Model	Мхх	Max	d=e	Weighing pan dimensions
WPY 0,6/D2	✓	0.6kg	0.2g	195x195mm
WPY 1,5/D2	✓	1.5kg	0.5g	195x195mm
WPY 1,5/F1	✓	1.5kg	0.5g	300x300mm
WPY 1,5/F1/K	✓	1.5kg	0.5g	300x300mm
WPY 1,5/F1/R	✓	1.5kg	0.5g	300x300mm
WPY 3/D2	✓	3kg	1g	195x195mm
WPY 3/F1	✓	3kg	1g	300x300mm
WPY 3/F1/K	✓	3kg	1g	300x300mm
WPY 3/F1/R	✓	3kg	1g	300x300mm
WPY 6/D2	✓	6kg	2g	195x195mm
WPY 6/F1	✓	6kg	2g	300x300mm
WPY 6/F1/K	✓	6kg	2g	300x300mm
WPY 6/F1/R	✓	6kg	2g	300x300mm
WPY 15/D2	✓	15kg	5g	195x195mm
WPY 15/F1	✓	15kg	5g	300x300mm
WPY 15/F1/K	✓	15kg	5g	300x300mm
WPY 15/F1/R	✓	15kg	5g	300x300mm
WPY 15/C2	✓	15kg	5g	400x500mm
WPY 15/C2/K	✓	15kg	5g	400x500mm
WPY 15/C2/R	✓	15kg	5g	400x500mm
WPY 15/C3	✓	15kg	5g	500x700mm
WPY 15/C3/K	✓	15kg	5g	500x700mm
WPY 30/F1	✓	30kg	10g	300x300mm
WPY 30/F1/K	✓	30kg	10g	300x300mm
WPY 30/F1/R	✓	30kg	10g	300x300mm
WPY 30/C2	✓	30kg	10g	400x500mm
WPY 30/C2/K	✓	30kg	10g	400x500mm
WPY 30/C2/R	✓	30kg	10g	400x500mm
WPY 30/C3	✓	30kg	10g	500x700mm
WPY 30/C3/K	✓	30kg	10g	500x700mm
WPY 60/C2	✓	60kg	20g	400x500mm

WPY 60/C2/K	✓	60kg	20g	400x500mm
WPY 60/C2/R	✓	60kg	20g	400x500mm
WPY 60/C3	✓	60kg	20g	500x700mm
WPY 60/C3/K	✓	60kg	20g	500x700mm
WPY 150/C2	✓	150kg	50g	400x500mm
WPY 150/C2/K	✓	150kg	50g	400x500mm
WPY 150/C2/R	✓	150kg	50g	400x500mm
WPY 150/C3	✓	150kg	50g	500x700mm
WPY 150/C3/K	✓	150kg	50g	500x700mm
WPY 300/C2	✓	300kg	100g	400x500mm
WPY 300/C2/K	✓	300kg	100g	400x500mm
WPY 300/C2/R	✓	300kg	100g	400x500mm
WPY 300/C3	✓	300kg	100g	500x700mm
WPY 300/C3/K	✓	300kg	100g	500x700mm



For detailed technical specifications refer to RADWAG website www.radwag.com.

PRECAUTIONS

Prior to installation, use or maintenance activities, carefully read this user manual. Use the PUE 7.1 Indicator only as intended.

Prior to the first use, carefully read this user manual. Use the device only as intended.
Place loads in the centre of the weighing pan.
Load the weighing pan with loads of gross weight which does not exceed the maximum capacity.
Mind not to leave heavy loads on the weighing pan for longer periods of time.
Do not operate the touch panel using sharp-edged tools (knife, screwdriver, etc.).
Protect the indicator against considerable temperature variation, solar and UV radiation, substances causing chemical reactions.
The device must not be operated in hazardous areas endangered with explosion of gases, and in dusty environments.
In case of damage, immediately unplug the device from the mains.
Scales to be decommissioned must be decommissioned in accordance with valid legal regulations.
If the scale is to be operated in conditions that are difficult due to electrostatics (e.g. printing house, packing centre, etc.), you must connect it to the earth wire. To enable this, the device features functional earthing terminal, marked with $\frac{1}{-}$ symbol.
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1. INTENDED USE

The scales are a response to growing market demands for an instrument offering simplicity of operation and weighing process automated to the maximum. WPY series scales enable fast and accurate mass measurement in industry. Modern, electronic weighing module with a colour 5,7" graphic display (with a touch screen) offers intuitive and user-friendly software.

The scale is equipped with 2 USB connectors, 2 RS232 connectors, Ethernet port, 4 IN/OUT, Wi-Fi[®] b,g,n. It can connect with barcode scanners, receipt printers, label printers, RFID readers and PC accessories (a mouse, a keyboard, a USB flash drive).

2. WARRANTY CONDITIONS

- A. RADWAG feels obliged to repair or exchange all elements that appear to be faulty by production or by construction.
- B. Defining defects of unclear origin and means of their elimination can only be realized with assistance of the manufacturer and user representatives.
- C. RADWAG does not bear any responsibility for damage or losses resulting from unauthorized or inadequate performing of production or service processes.
- D. The warranty does not cover:
 - mechanical damage caused by product exploitation other than intended, damage of thermal and chemical origin, damage caused by lightning, overvoltage in the power grid or other random event,
 - · inappropriate cleaning habits.
- E. Loss of warranty takes place if:
 - a repair is carried out outside RADWAG authorized service point,
 - service claims intrusion into mechanical or electronic construction by unauthorized people,
 - other than original version of the operating system is installed,
 - the scale does not bear security seal stickers.
- F. For detailed warranty conditions read the warranty certificate.
- G. Contact with the central authorized service: +48 (48) 386 63 30.

3. MAINTENANCE

In order to clean the weighing instrument risk-free, it is necessary to disconnect the device from the mains. With this condition met, uninstall the weighing pan and other detachable scale components.



Cleaning the weighing pan while still installed may cause damage of the measuring system.

3.1. Cleaning ABS Components

To clean dry surfaces and avoid smudging, use clean non-colouring cloths made of cellulose or cotton. You can use a solution of water and detergent (soap, dishwashing detergent, glass cleaner). Gently rub the dirty surface and let it dry. Repeat the cleaning process if necessary.

In the case of hard to remove contamination, e.g. residues of adhesive, rubber, resin, polyurethane foam etc., you can use special cleaning agents based on a mixture of aliphatic hydrocarbons that do not dissolve plastics. Before using the cleanser, for all surfaces we recommend carrying out tests. Do not use cleansers containing abrasive substances.

3.2. Cleaning Stainless Steel Components

Avoid using cleansers containing any corrosive chemicals, e.g. bleach (with chlorine). Do not use cleansers containing abrasive substances. Always remove the dirt using microfiber cloth to avoid damage of protective coating. In case of a daily maintenance:

- 1. Remove the dirt using cloth dipped in warm water.
- 2. For best results, add a little bit of dishwashing detergent.

4. SERVICE AND REPAIR



In case of any sign of damage, it is necessary to disconnect the device form the mains immediately. The damaged component must be replaced or repaired by RADWAG service directly.

In case of any problems with correct operation of the scale, contact the closest manufacturer's service point.

In case of defects, deliver the faulty product to the manufacturer's service point. If the product cannot be delivered to the manufacturer's service point, call the service and report the defect. Repair scope and method will be set up.



The user is NOT ALLOWED to carry out any kind of repair of the device himself/herself. Any attempt of scale modification, repair etc., by unauthorized persons, will result with loss of validity of manufacturer-issued certificates, declarations and warranty.

5. RECYCLING

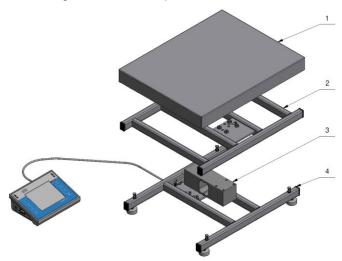
WPY scales must be recycled, they are not to be treated as a regular household waste. Scales to be decommissioned must be decommissioned in accordance with valid legal regulations.



6. MECHANICAL DESIGN

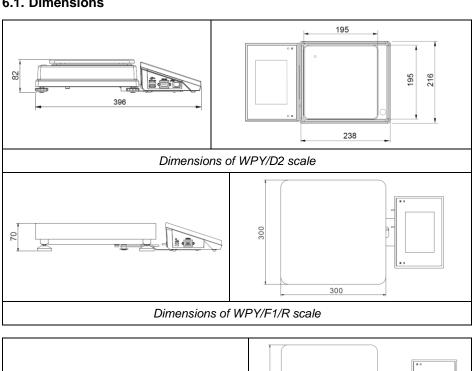
WPY scale is a 1-load-cell device intended to carry out fast and precise mass measurement of up to 300 kg loads. Its characteristic feature is a platform with one load cell only. The platform is equipped with a stainless steel weighing pan. Depending on a scale model, the cross and base are made of either stainless steel or powder-coated steel.

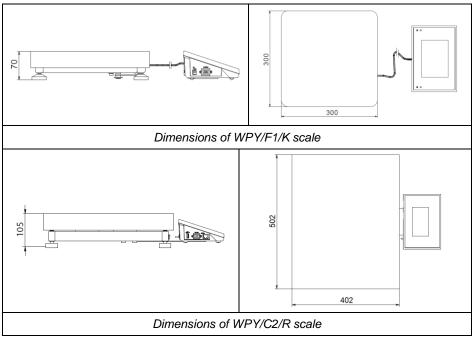
1-load-cell scale design, the main components

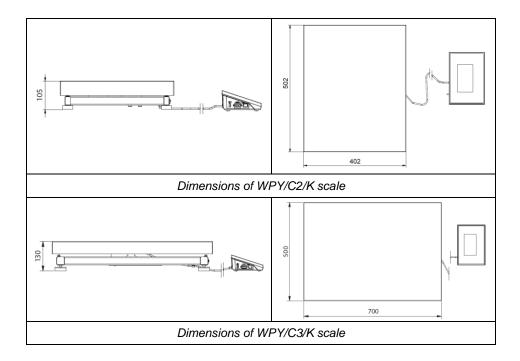


1-load-cell scale design, the main components: 1- weighing pan, 2 – cross, 3 - load cell, 4 - base.

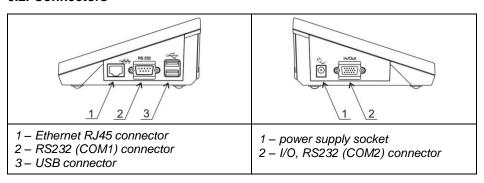
6.1. Dimensions



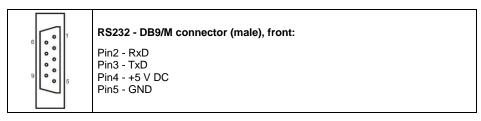


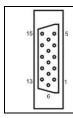


6.2. Connectors



6.3. RS232 Connector





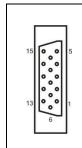
RS232 - DSUB15/F connector (female), front:

Pin8 - TxD2 Pin9 - 5VDC Pin10 - GND

Pin13 - RxD2

6.4. Inputs / Outputs

Standard C32 scale is equipped with 4 optoisolated inputs and 4 semiconductor outputs (solid-state relays). The signals are fed through DSUB15/F connector.



IN/OUT, RS232 - DSUB15/F connector (female), front:

Pin1 – GNDWE Pin2 - OUT1

PIN2 - 001

Pin3 - OUT2

Pin4 – COMM

Pin6 - IN4

Pin7 - IN3

Pin11 - IN2

Pin12 - IN1

Pin14 - OUT4

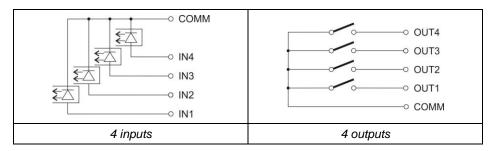
Pin15 - OUT3

6.4.1. Technical Specifications

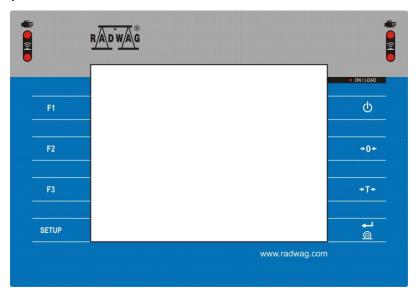
Output parameters		
Output quantity	4	
Output type	Solid-state relay	
Cable cross-section	0.14 - 0.5 mm ²	
Maximum output current	0.5 A DC	
Maximum output voltage	30 VDC	

Input parameters		
Input quantity	4	
Input type	Optoisolated	
Cable cross-section	0.14 - 0.5 mm ²	
Input voltage range	5÷24VDC	

6.4.2. I/O Schematic Diagrams



6.5. Operation Panel



Keys

Ф	Press to switch the scale ON/OFF.
+0+	Press to zero the scale.
+ T+	Press to tare the scale.
1 @	Press to send the weighing result to a printer or a computer.
SETUP	Press to enter the menu (function button).
F1	Programmable key.

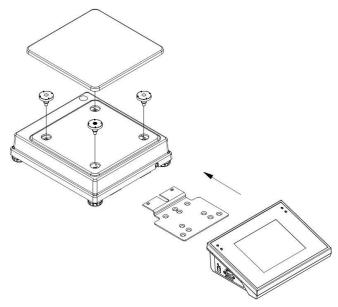
F2	Programmable key.
F3	Programmable key.

7. INSTALLATION

7.1. UNPACKING AND INSTALLATION

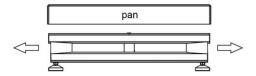
7.1.1. WPY/D2 Series

- A. Take the device out of the packaging.
- B. Place the device on a flat and even surface. Keep it far away from any sources of heat.
- C. Install the weighing pan and the indicator holder in accordance with the figure below:



7.1.2. WPY/F1, WPY/C2, WPY/C3 Series

- Take the device out of the packaging.
- Place the device on a flat and even surface. Keep it far away from any sources of heat.
- Remove transport locks and install the weighing pan:



7.2. Levelling

It is necessary to level the scale, do it by turning its feet. Keep turning the feet until the air bubble takes central position.



7.3. Start-Up

The weighing device can be connected to the mains only with a power supply that comes standard with the particular model. Nominal voltage of the power supply (specified on the power supply data plate) has to be compatible with the mains nominal voltage.

Procedure:

- Plug the power supply to the mains.
- Connect the power supply plug to the socket located on the scale's side.
 An ON/LOAD diode, ON/LOAD, on indicator housing is turned on.
- Press
 key, it is to be found at the top of the operation panel.
 Mind to keep the key pressed for about 0.7 s. Operation system and
 RADWAG program are loaded, this is signalled with blinking of red
 ON/LOAD diode.
- Upon completed start-up, the home screen is displayed automatically.

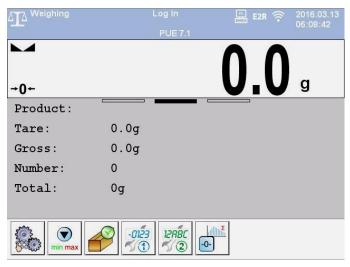


Detailed instruction on how to configure the home screen is to be found in "PUE 7.1 Indicator Software Manual".

8. HOME SCREEN

The home screen features 4 sections: a top bar, a weighing result window, a workspace, function buttons.

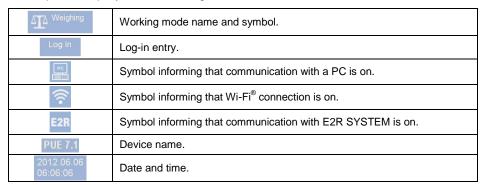
Home screen layout:



8.1. Top Bar



The top bar displays the following information:



8.2. Weighing Result Window

Weighing result window provides all weighing-related data.



8.3. Workspace

The workspace is to be found underneath the weighing result window.

Product:

Tare: 0.000kg

Gross: 0.000kg

Number: 0

Total: 0kg

The workspace comprises 3 display templates. Graphics at the top inform which of the 3 templates is currently displayed. In order to switch to a different template drag the workspace screen to the left/right respectively.

8.4. Function Buttons

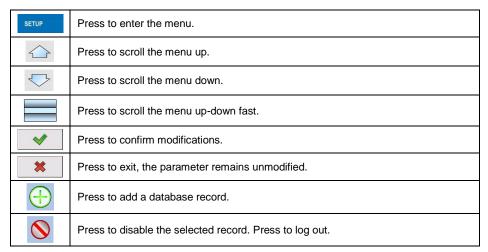
On-screen function buttons are to be found underneath the workspace.



You can define on-screen function buttons individually for each working mode.

9. OPERATING THE MENU

9.1. Operation Panel



PD	Press to search a particular database record by date.
PN	Press to search a particular database record by name.
PC	Press to search a particular database record by code.
\$	Press to print a database record.
	Press to export control and average tare reports for PGC and SQC modes. Press to export dosing and formulation reports.
0012.34	Press to clear dialog box content.
CEFE	Press to enable/disable an on-screen keyboard.
	Press to read printout template saved to *.lb file (the button becomes active upon USB flash drive connection).
	Press to save the template to *.lb file (the button becomes active upon USB flash drive connection).
5	Press to select printout template variables out of the list.
5	Press to go back.
0	Press to go to the home screen directly.

9.2. Return to Weighing

Introduced modifications are automatically recorded upon return to the home screen. To return to the home screen:

- press key repeatedly, keep pressing the key until you see the home screen,
- press ifield, located in the top bar, the home screen is displayed immediately.

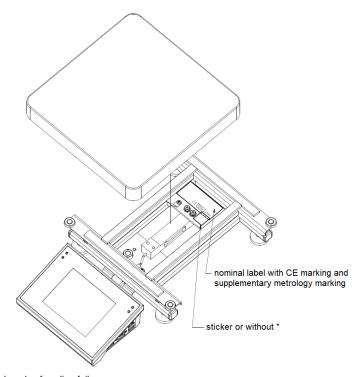
10. WEIGHING

Load the weighing pan. Read the result when A stability marker is displayed. In order to guarantee a long-term operation, wherein correct measurements are provided, the following principles must be adhered to:

Load the weighing pan steadily, avoid applying mechanical shocks.	YES NO
Place the loads centrally on the weighing pan (eccentricity errors are specified by EN 45501 standard, point 3.6.2).	YES
In case of eccentric loading make sure that: a) mass of load placed close to one of the pan edges does not exceed ½ of max capacity, b) mass of load placed in the pan corner does not exceed 1/3 of max capacity.	1/2 MAX MAX 1/3 MAX
Do not apply concentrated force (total load in one point).	NO YES
Avoid side loading, in particular side shocks.	NO NO

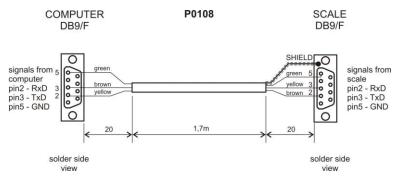
11. SCALE MARKING

By cause of technical reasons, in the case of WPY/R series scales, the data plate and CE marking are placed on the main body of the balance. The data plate and the CE marking are visible in the weighing pan photo, see the below figure.

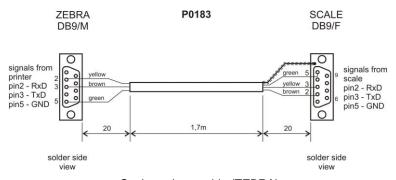


*) - for nominal label made of sealing foil.

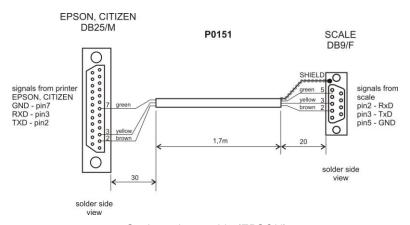
12. DIAGRAMS OF CONNECTION CABLES



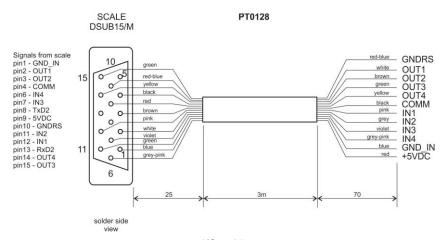
Scale - computer cable (RS232)



Scale - printer cable (ZEBRA)



Scale - printer cable (EPSON)



I/O cable



"Scale-Ethernet" cable is a standard network cable terminated with RJ45 connectors on both ends.

13. ERROR MESSAGES

