

# PUE C315

WEIGHING INDICATOR

SOFTWARE MANUAL

ITKP-34-03-04-22-EN



 **RADWAG BALANCES AND SCALES**  
ADVANCED WEIGHING TECHNOLOGIES

APRIL 2022

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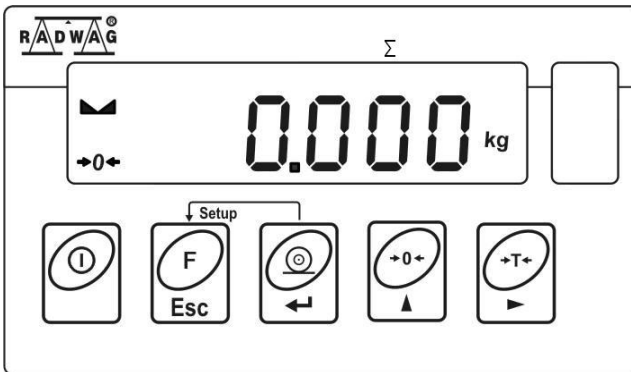
## 1. INTENDED USE

**PUE C315** weighing indicator is a device intended to make industrial scales operating on the basis of load cells. The indicator is equipped with an internal battery, this allows its operation in places where there is no access to the mains. Clear weighing result presentation is ensured due to large display (LCD). Indicator's housing is made of plastic. Standard indicator features RS232 interface for cooperation with peripheral devices (printer, computer, etc.).



***The scale must not be operated in hazardous areas endangered with explosion of gases, and in dusty environments.***



## 2. OPERATION PANEL




### Keys:

	Press to switch the weighing device on/off – hold the key for about 1 second.
	Function key, press to change the working mode.
	Press to send the weighing result to a printer or computer.
	Press to zero the scale.
	Press to tare the scale.















Upon pressing  +  keys combination, functions of given keys change. Detailed information concerning use of the above keys combination is to be found further down this manual.

### 3. START-UP


- Connect the power supply to the mains. Plug it to the power supply socket (back side of the scale housing).
- Press  key. The key is also used to switch the scale on/off.
- Display test proceeds (all symbols are backlit for a moment), program name and number is displayed first, mass indication next.

### 4. OPERATING THE MENU

In order to navigate the program menu use the operation panel.

 + 	Press to enter the main menu.
 + 	Press to enter tare manually. Press to enter tare from tare database. Press to change value by 1 digit up. Press to scroll the menu up.
 + 	Press to check battery/accumulator state.
 + 	Press to view date/time.
	Press to scroll the menu down. Press to change current parameter value.
	Press to enter given submenu. Press to modify given parameter.
	Press to confirm modification.
	Press to exit, function remains unmodified. Press to move one menu level up.

## 4.1. Return to the Weighing Mode

Introduced menu modifications are automatically saved to scale memory upon return to the home screen. To return to the home screen press  key repeatedly.

## 5. PROGRAM STRUCTURE



Program menu is divided into function groups. Function group is a group of interrelated parameters.

### 5.1. Function Groups



Function group number	Function group name	Description
P1	CAL	User adjustment
P2	rEAd	Readout parameters
P3	Func	Working modes
P4	Conn	Communication
P5	ducE	Peripheral devices
P6	Prnt	Printouts
P7	Othr	Operation-related functions
P8	InFo	Scale data
P9	Unit	Units

## 6. WEIGHING

Load the weighing pan. Read the result when  stability marker is displayed.

	<b><i>Only stable weighing results can be recorded (stability marker ).</i></b>
---	--

### 6.1. Zeroing

To zero mass indication press  key. Zero indication and the following pictograms are displayed: **+0+** and . The instrument can be zeroed only when the indication is stable.




**Indication can be zeroed only within  $\pm 2\%$  range of maximum capacity. If the zeroed value is greater than  $\pm 2\%$  of the maximum capacity, then the software displays <Err2> message, and short sound signal is heard.**

## 6.2. Taring

To determine net weight value, load the weighing pan with a packaging, wait







for a stable indication and press key. Zero indication and the following pictograms are displayed: **Net** and . The weighing device has been tared. Upon loading, net mass is displayed. Taring can be carried out repeatedly within the whole weighing range. Remember not to exceed the maximum capacity, i.e. sum of tare weight value and load weight value must be lower than the maximum capacity value. Upon unloading the weighing pan, the sum of tared masses with minus sign is displayed.



**It is impossible to tare zero or negative values. When you tare zero or negative values, message <Err3> is displayed, short sound signal is heard.**

## 6.3. Entering Tare Value Manually

- Press  and  keys combination, tare value edit box is displayed.
- Enter tare value, to do it press  and  keys:



Press to select digit that is to be edited.



Press to set digit value, 0 - 9.









- Press key to confirm, the scale returns to the weighing mode, modified tare value with '-' sign is displayed.
- You can enter tare value at any time during the weighing operation.



## 6.4. Dual Range Devices

*N/A in the case of single range scales*

Switching from weighing with the accuracy of the **I weighing range** to weighing with the accuracy of the **II weighing range** takes place automatically upon exceeding Max of the **I weighing range**. Upon switching to weighing with the accuracy of the **II weighing range**,  pictogram/marker is displayed in the top left hand corner. The return to weighing with the accuracy of the I weighing range can be done in two modes:

<b>Manual mode</b>	Manual transition from a higher weighing range to a lower one, when the mass is in autozero (pictograms  and  ) after pressing  .
<b>Automatic mode</b>	Automatic transition from a higher weighing range to a lower weighing range, when the mass is in autozero (pictograms  and  ).

To select the transition mode, go to **<P2.9.nnrH>** (see section 8.9 of the user manual).


## 6.5. Units

**<P9.Unit>** parameter group enables change of start unit and temporary unit. The unit can be changed to some other unit during weighing or during other modes operation. 'Parts counting' and 'Percent weighing' modes are exceptions.

### 6.5.1. Start Unit

Parameter for setting unit that is displayed and used after device start-up.

#### Procedure:



- Enter **<P9.Unit / 9.1.UnSt>** submenu.
- Press  key, available units are displayed successively one by one.

**Options in case when the main unit is [kg]:** kg (kilogram), g (gram), lb (pound)\*, N (Newton).

*\*) – unit disabled for verified weighing devices.*

**Options in case when the main unit is [g]:** g (gram), kg (kilogram), ct (carat), lb (pound)\*.


*\*) – unit disabled for verified weighing devices.*

- Select start unit and press  key, next go back to the home screen, to do it press  key.
- Upon next start-up the scale runs with set start unit.

## 6.5.2. Temporary Unit

Temporary unit runs from the moment it is set to the scale shut-down and restart.

### Procedure:

- Enter **<P9.Unit / 9.2.Unin>** submenu.
- Press  key, available units are displayed successively one by one.

**Options in case when the main unit is [kg]:** kg (kilogram), g (gram), lb (pound)\*, N (Newton).

*\*) – unit disabled for verified weighing devices.*

**Options in case when the main unit is [g]:** g (gram), kg (kilogram), ct (carat), lb (pound)\*.

*\*) – unit disabled for verified weighing devices.*

- Select temporary unit and press  key, next go back to the home screen.

## 7. ADJUSTMENT

*option available for non-verified weighing devices exclusively*

In order to ensure the highest weighing accuracy, it is recommended to periodically introduce corrective factor of indications to scale memory, the said factor must be referred to a reference weight. This is so called adjustment.

### Adjustment has to be carried out:

- prior weighing,
- if long breaks between successive measuring series occur,
- if the ambient temperature has changed dynamically,
- if the scale has been relocated.



## Adjustment types:

- external adjustment, **<1.1.CA-E>**, performed using an external weight of declared mass, i.e. mass that cannot be modified,
- user adjustment, **<1.2.CA-u>**, performed using an external weight of mass of any value comprised within the weighing range, however not lower than 30% of the maximum capacity value.

### 7.1. External Adjustment

External adjustment must be carried out using an external adjustment weight of class F<sub>1</sub>.


#### Procedure:



- Enter **<P1.CAL / 1.1.CA-E>** submenu, text **<UnLoAd>** (remove weight) is displayed.
- Remove the load from the weighing pan and press  key.
- Mass of an empty weighing pan is determined, this is signalled with display of 'dash', **< - >**. Next, text **<LoAd>** (load weight) and mass value that is to be loaded, e.g. **2000g** (conditioned by scale type), are displayed.
- Load the weighing pan with weight of specified mass value and press  key.
- Weight mass is determined, this is signalled with display of 'dash', **< - >**. Next, text **<UnLoad>** (remove weight) is displayed.
- Remove the load from the weighing pan, **<1.1.CA-E>** submenu is displayed.

### 7.2. User Adjustment

User adjustment must be carried out using an external adjustment weight of class F<sub>1</sub>.

#### Procedure:

- Enter **<P1.CAL / 1.2.CA-u>** submenu, edit box for declaring weight mass is displayed (the mass value must be  $\geq 30\%$  of the maximum capacity value).
- Enter weight mass value and press  key to confirm, text **<UnLoAd>** (remove weight) is displayed.

- Remove the load from the weighing pan and press  key.
- Mass of an empty weighing pan is determined, this is signalled with display of 'dash', < - >. Next, text <LoAd> (load weight) and mass value that is to be loaded, e.g. **1000g**, are displayed.
- Load the weighing pan with weight of specified mass value and press  key.
- Weight mass is determined, this is signalled with display of 'dash', < - >. Next, text <UnLoad> (remove weight) is displayed.
- Remove the load from the weighing pan, <1.2.CA-u> submenu is displayed.



### 7.3. Adjustment Report

Adjustment report is automatically printed (using scale-connected printer) at the end of each adjustment process. To declare report content go to <P6.1.CrEP> submenu. For detailed information concerning report content read later sections of this manual.

## 8. SCALE PARAMETERS

Scale parameters are set to adjust the weighing device to ambient conditions (filters) or individual needs (autozero on/off, tare value memory). These parameters are to be found in <P2.rEAd> submenu.

### 8.1. Filter

- Enter <P2.rEAd / 2.1.FiL> submenu.
- Press  key, filter values are displayed successively one by one: **1** - Fast, **2** - Average, **3** – Slow.
- Set respective value and press  key to confirm, next go to the home screen.





***The higher filter value, the longer the weighing takes.***

## 8.2. Value Release

Enter this parameter to adjust rate of stabilisation of the measurement result. Depending on the selected option, weighing time is either shorter or longer.



### Procedure:

- Enter **<P2.rEAd / 2.2.APPr>** submenu.
- Press  key, available values are displayed successively one by one: **F\_P** - fast and reliable, **PrEc** – reliable, **FASt** – fast.
- Set the respective value, press  key to confirm, next go to the home screen.

## 8.3. Ambient Conditions

Parameter relating to ambient and environmental conditions of the workstation. Enter this parameter and set 'nStAb' value if the ambient conditions are unfavourable (air drafts, vibrations).

### Procedure:


- Enter **<P2.rEAd / 2.3.Enut>** submenu.
- Press  key, parameter values are displayed successively one by one: **nStAb** – unstable, **StAb** – stable.
- Set the respective value, press  key to confirm, next go to the home screen.

## 8.4. Autozero Function

'Autozero' function has been designed to enable automatic control and correction of zero indication. This guarantees precise weighing results.

There are, however, some cases when this function can be a disturbing factor for the measuring process, e.g. very slow placing of a load on the weighing pan (load adding, e.g. pouring, filling). In such case, it is recommended to disable the function.

### Procedure:


- Enter **<P2.rEAd / 2.4.Aut>** submenu.
- Press  key, parameter values are displayed successively one by one: **YES** – autozero function enabled, **no** – autozero function disabled.

- Set the respective value, press  key to confirm, next go to the home screen.


### 8.5. Tare Function

'Tare' function has been designed to enable setup of appropriate parameters for tare operation.

#### Procedure:

- Enter **<P2.rEAd / 2.5.tArE>** submenu.
- Press  key, available values are displayed successively one by one:


<b>no</b>	Regular tare mode. Select this parameter to make the scale overwrite the set (selected) tare value with the most recently entered one.
<b>tArF</b>	Select this parameter to make the scale store the latest tare value in memory. The latest tare value is displayed after scale restart.
<b>AtAr</b>	Auto tare mode.
<b>EAcH</b>	Select this parameter to make the scale automatically tare each accepted measurement.





Press  key to confirm, next go to the home screen.


### 8.6. Tare Entering Mode

The tare is entered using  +  keys combination from the home screen level. There are two enter modes.

#### Procedure:

- Enter **<P2.rEAd / 2.6.ttr>** submenu.
- Press  key, parameter values are displayed successively one by one:

<b>tArEH</b>	Select to enter tare value manually by means of  +  keys combination.
<b>tArnn</b>	Select to enter tare value that is stored in scale memory, use  +  keys combination.

- Press  key to confirm, next go to the home screen.

## 8.7. Tare Value Memory



It is possible to store 10 tare values in scale memory.



### 8.7.1. Entering Tare Value to the Weighing Device Memory



- Enter **<P2.rEAd / 2.7.tArn>** submenu, name of tare no.
- 1 from tare database is displayed (**<tArE 0>**), to select a different record

press  button.


- Select respective entry and press  key, tare value edit box is displayed.

- Enter tare value, to do it press  and  keys:


	Press to select digit that is to be edited.
	Press to set digit value, 0 - 9.

- Press  key to confirm, **<tArE 0>** window is displayed.
- Now press  key to go to the home screen.

### 8.7.2. Selecting Tare Value From Weighing Device Memory

- Enter **<P2.rEAd / 2.7.tArn>** submenu, name of tare no. 1 from tare database is displayed (**<tArE 0>**), to select a different record press  button.

- To set the selected tare press  key.
- The set tare value is displayed with minus sign, **Net** symbol is shown in the upper-left corner of the screen:


	<b><i>The tare value acquired from the weighing device memory is not remembered upon the weighing device restart.</i></b>
---	---

## 8.8. Last Digit


Function designed to disable display of the last weighing indication digit, this results with less accurate measurement.

### Procedure:

- Enter **<P2.rEAd / 2.8.LdiG>** submenu.

- Press  key, available values are displayed successively one by one:

<b>ALAS</b>	Select to make the last digit always on.
<b>nEur</b>	Select to make the last digit always off.
<b>uuSt</b>	Select to make the last digit on only when the weighing indication is stable.

- Press  key to confirm, next go to the home screen.

## 8.9. Manual multi-range

*N/A in the case of single range scales*

Transition mode from a higher weighing range to a lower weighing range.

### Procedure:

- Enter **<P2.rEAd / 2.9.nnrH>** submenu and set a respective option (✓ - Automatic multi-range; ✓ - Manual multi-range).

For a description of the transition modes from a higher to a lower weighing range, refer to section 6.4 of the user manual.

## 9. COMMUNICATION

Communication between the PUE C315 indicator and the peripheral devices is established via the following ports: RS232 (1), RS232 (2)\*. To set the ports go to **<P4.Conn>** submenu.

*\*) – option.*


### 9.1. RS232 (1) Port

- Enter **<P4.Conn / 4.1.rS1>** submenu and set respective transmission parameters:



<b>4.1.1.bAd</b>	Baud rate: 2400, 4800, 9600, 19200, 38400, 57600, 115200 bit/s.
<b>4.1.2.dtb</b>	Data bits: 7, 8.
<b>4.1.3.Stb</b>	Stop bits: 1, 2
<b>4.1.4.Par *</b>	Parity: <b>nonE</b> – none; <b>EuEn</b> – even; <b>Odd</b> – odd.

\*) – for RS232, 7 bit data setting requires activation of parity control (<nonE> parity value disabled).

- Press  key to confirm, next go to the home screen.


## 9.2. RS232 (2) Port

*Optional design*

- Enter <P4.Conn / 4.2.rS2> submenu and set respective transmission parameters:

<b>4.2.1.bAd</b>	Baud rate: 2400, 4800, 9600, 19200, 38400, 57600, 115200 bit/s.
<b>4.2.2.dtb</b>	Data bits: 7, 8.
<b>4.2.3.Stb</b>	Stop bits: 1, 2
<b>4.2.4.Par *</b>	Parity: <b>nonE</b> – none; <b>EuEn</b> – even; <b>Odd</b> – odd.

\*) – for RS232, 7 bit data setting requires activation of parity control (<nonE> parity value disabled).

- Press  key to confirm, next go to the home screen.

## 10. PERIPHERAL DEVICES

<P5.ducE> menu contains list of devices connecting with the scale.


### 10.1. Computer

<5.1.PC> submenu allows you to:

- select port to which the computer is connected,
- enable/disable continuous transmission,
- set frequency of printouts for continuous transmission.

#### 10.1.1. Computer Port


- Enter <5.1.PC / 5.1.1.Prt> submenu.

- Press  key, parameter values are displayed successively one by one: **nonE** – none; **rS1** – RS232 (1); **rS2** – RS232 (2)\*.

- Set the respective value, press  key to confirm, next go to the home screen.

\*) – option.

### 10.1.2. Continuous Transmission

- Enter <5.1.PC / 5.1.2.Cnt> submenu.
- Press  key, parameter values are displayed successively one by one:


<b>nonE</b>	Continuous transmission disabled.
<b>CntA</b>	Continuous transmission in basic unit.
<b>Cntb</b>	Continuous transmission in current/temporary unit.

- Set the respective value, press  key to confirm, next go to the home screen.

### 10.1.3. Printout Interval for Continuous Transmission


Parameter enabling you to set frequency of printout for continuous transmission. Printout interval is set in seconds with 0.1 [s] accuracy within 0.1 [s] - 3600 [s] range.

#### Procedure:

- Enter <5.1.PC / 5.1.3.Int> submenu, window for entering interval value is displayed.
- Enter the value, press  key to confirm, next go to the home screen.



## 10.2. Printer

### 10.2.1. Printer Port

Parameter enabling you to select port to which data is to be sent upon pressing  key.

#### Procedure:

- Enter <5.2.Prtr / 5.2.1.Prt> submenu.



- Press  key, parameter values are displayed successively one by one: **nonE** – none port selected; **rS1** – RS232 (1); **rS2** – RS232 (2)\*.
- Set the respective value, press  key to confirm, next go to the home screen.

\*) – option.

### 10.3. Additional Display

The weighing instrument can connect with additional displays: WD-4, WWG-2.

#### 10.3.1. Additional Display Port

- Enter **<5.3.AdSP / 5.3.1.Prt>** submenu.
- Press  key, parameter values are displayed successively one by one: **nonE** – none; **rS1** – RS232 (1); **rS2** – RS232 (2)\*.
- Set the respective value, press  key to confirm, next go to the home screen.

\*) – option.

#### 10.3.2. Additional Display Type

- Enter **<5.3.AdSP / 5.3.2.tYP>** submenu and select respective type.

**Where:**

<b>Ud-4</b>	WD-4-type additional display (set by default).
<b>UUG-2</b>	WWG-2-type additional display.

## 11. PRINTOUTS

It is possible to define adjustment report printout template and GLP printout template. To set the printouts go to **< P6.Prt >** submenu.

### 11.1. Adjustment Report

**<P6.1.CrEP>** is a group of parameters allowing you to declare variables that are to be printed on an adjustment report printout. Each variable features accessibility attribute: **YES** – print, **no** – do not print.

Adjustment report is automatically generated at the end of each adjustment process.

**Variables list:**

No.	Name	Description
6.1.1.	CtP	Performed adjustment type.
6.1.2.	dAt	Adjustment date.
6.1.3.	tin	Adjustment time.
6.1.4.	ldb	Serial number of the scale.
6.1.5.	CdF	Difference between mass of an adjustment weight that was measured during last adjustment and mass of a currently measured adjustment weight.
6.1.6.	dSh	Dashed line separating printout data and signature fields.
6.1.7.	SiG	An area for the signature of an operator carrying out the adjustment.

	<p><b><i>Printouts are generated exclusively in English.</i></b></p>
---	--

**Report example:**

```

-----Calibration Report-----
Calibration type           External
Date                       2016.10.15
Time                       12:39:23
Balance ID                 123456
Difference                  -0.02g
-----
Signature
.....
  
```

**11.2. GLP Printout**

<P6.2.GLP> is a group of parameters allowing you to declare variables that are to be printed on a weighing printout. Each variable features accessibility attribute: **YES** – print, **no** – do not print.

**Variables list:**

No.	Name	Description
6.2.1.	dAt	Performed weighing date.
6.2.2.	tin	Performed weighing time.
6.2.3.	ldb	Serial number of the scale.

6.2.4.	n	Net weight value of performed weighing in basic measuring unit.
6.2.5.	t	Tare weight value in the current unit.
6.2.6.	b	Gross weight value in the current unit.
6.2.7.	CrS	Current weighing result (net weight) in a current unit.
6.2.8.	CrP	The last adjustment report generated in accordance with settings declared for the adjustment report printout.

	<b><i>Printouts are generated exclusively in English.</i></b>
---	---

### Report example:

Date	2016.10.15
Time	12:04:17
Net	49.98g
Tare	17.20g
Gross	67.18g



## 12. MISCELLANEOUS PARAMETERS

<P7.Othr> is a group of parameters enabling you to adapt the scale to individual needs.

### 12.1. Automatic Backlight Switch-Off

Parameter allowing to set time interval, in [min], after which display backlight goes off. If the indication is stable during the declared time interval, the screen backlight goes off automatically.


#### Procedure:

- Enter <P7.Othr / 7.1.bl> submenu.
- Press  key, parameter values are displayed successively one by one: **nonE** – function disabled, **0.5, 1, 2, 3, 5**.
- Press  key to confirm, next go to the home screen.

### 12.2. Display Brightness

Parameter allowing to change display brightness, the brightness can be changed within **0% - 100%** range.

**Procedure:**

- Enter <P7.Othr / 7.2.bLbt> submenu.
- Press  key, parameter values are displayed successively one by one, where:



<b>nonE</b>	Backlight off.
<b>10</b>	Display brightness low limit value in [%].
<b>100</b>	Display brightness high limit value in [%].

- Set the respective value, press  key to confirm, next go to the home screen.

**12.3. 'Beep' Sound**

Parameter allowing you to enable/disable sound signal informing the operator about pressing panel key(s).


**Procedure:**

- Enter <P7.Othr / 7.3.bEEP> submenu.
- Press  key, parameter values are displayed successively one by one: **no** – sound signal disabled, **YES** - sound signal enabled.
- Set the respective value, press  key to confirm, next go to the home screen.

**12.4. Automatic Shutdown**

Parameter allowing you to set time interval, in [min], after which the weighing device shuts down automatically. If the indication is stable during the declared time interval, the device is shut down automatically. Shutdown function is inactive and the device cannot be turned off if any process is started or if you operate the menu.

**Procedure:**

- Enter <P7.Othr / 7.4.t1> submenu.
- Press  key, parameter values are displayed successively one by one: **nonE** – function disabled, **1, 2, 3, 5, 10**.

- Set the respective value, press  key to confirm, next go to the home screen.

## 12.5. Date and Time

Parameter allowing you to set current date and time and to specify date and time format.

### Procedure:

- Enter **<P7.Othr>** submenu and change the settings. Refer to the below table:

Parameter	Description
<b>&lt;7.5.SdAt&gt;</b>	Enter this parameter to set current date, where the date format is <b>YYYY.MM.DD*</b> .
<b>&lt;7.6.Stnn&gt;</b>	Enter this parameter to set current time, where the time format is <b>24H**</b> .
<b>&lt;7.7.FdAt&gt;</b>	Enter this parameter to select date format. Available values: <b>1</b> - DD.MM.YYYY, <b>2</b> - MM.DD.YYYY, <b>3</b> - YYYY.MM.DD* (set by default), <b>4</b> - YYYY.DD.MM.
<b>&lt;7.8.Ftin&gt;</b>	Enter this parameter to select time format. Available values: <b>24H**</b> (set by default), <b>12H**</b> .


\*) - Date format: Y – year, M – month, D – day.

\*\*) - Time format: 12H – 12-hour format, 24H - 24-hour format.

## 12.6. Default Operator Settings

Parameter allowing you to restore default operator settings.

### Procedure:

- Enter **<P7.Othr / 7.9.dFLu>** submenu, text **<Cont?>** is displayed (Continue?).
- Press  key to confirm. The process of restoring default settings starts, this is signalled with display of 'dash', **< - >**.
- Upon process completion **<7.9.dFLu>** submenu is displayed. Go to the home screen.

## 13. SCALE DATA




Scale data menu, **<P8.InFo>**, provides information on the weighing device and its program. The parameters serve informative purposes:


<8.1.Idb>	Scale serial number.
<8.2.PurS>	Program version.
<8.3.PStP>	Settings printout. Enter the parameter to send scale settings to printer port (all parameters).

## 14. WORKING MODES – General Information

The weighing device features the following working modes: Weighing, Parts counting, +/- control, Percent weighing %, Peak Hold, Totalizing, Animal weighing.

### 14.1. Running Working Mode

- Go to the home screen, press  key, name of the first available working mode is displayed.
- Press  key, names of available working modes are displayed successively one by one.
- Enter selected working mode, to do it press  key.

	<b><i>The weighing device program has been designed to make the scale run, upon restart, with the latest operated working mode on.</i></b>
---	--

### 14.2. Working Modes Local Settings

Each working mode features specific functions which enable adapting device operation to individual needs. To go to local settings of each working mode enter <P3.Func> submenu.

Some special functions are available for all working modes, refer to the table below:


	Accessibility	Save mode	Time interval	Lo threshold
Weighing	3.1.1.Acc	3.1.2.Snn	3.1.3.Int	3.1.4.Lo
Parts counting	3.2.1.Acc	3.2.3.Snn	3.2.4.Int	3.2.5.Lo
+/- control	3.3.1.Acc	3.3.2.Snn	3.3.3.Int	3.3.4.Lo
Percent weighing %	3.4.1.Acc	3.4.3.Snn	3.4.4.Int	3.4.5.Lo
Peak Hold	3.5.1.Acc	-	-	3.5.2.Lo
Totalizing	3.6.1.Acc	3.6.2.Snn	3.6.3.Int	3.6.4.Lo





Animal weighing	3.7.1.Acc	-	-	3.7.3.Lo
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The table presents special function number and name for each of the working modes. Remaining specific functions referring directly to a given working mode are described further down this user manual.

### 14.2.1. Working Mode Accessibility

To enable/disable given working mode, press  key.


#### Procedure:



- Enter **<P3.Func>** menu and select given working mode.
- Go to **<Acc>** function.
- Press  key, parameter values are displayed successively one by one: **YES** – working mode enabled, **no** – working mode disabled.
- Set the respective value, press  key to confirm, next go to the home screen.

### 14.2.2. Save Mode

Parameter allowing you to set mode of sending data from the weighing device to a peripheral device.

#### Procedure:

- Enter **<P3.Func>** menu and select given working mode.
- Go to **<Snn>** function.
- Press  key, parameter values are displayed successively one by one:


<b>StAb</b>	Manual printout of stable weighing result. Upon pressing  key at the moment when the result is unstable (no  pictogram displayed), the program first waits for the stability condition to be met, only then printout is carried out.
<b>rEPL</b>	Automatic printout of the first stable weighing result above <b>&lt;Lo&gt;</b> threshold (to set <b>&lt;Lo&gt;</b> threshold go to <b>&lt;Lo&gt;</b> parameter).
<b>rEPLi</b>	Automatic printout with time interval set in <b>[min]</b> (to set the interval go to <b>&lt;Int&gt;</b> parameter).
<b>nStAb</b>	Manual printout of each weighing result. In case of unstable indication, <b>&lt;?&gt;</b> sign is displayed in front of the 'mass frame'. <b>Function available for non-verified scales exclusively.</b>

- Set the respective value, press  key to confirm, next go to the home screen.

### 14.2.3. Automatic Printout Time Interval

Parameter enabling you to set frequency of automatic printout. Printout interval is set in minutes with 1 [min] accuracy within 1 [min] 1440 [min] range.


#### Procedure:

- Enter **<P3.Func>** menu and select given working mode.
- Enter **<Int>** function, window for entering **time interval** value is displayed.
- Enter the value, press  key to confirm, next go to the home screen.

### 14.2.4. Lo Threshold

**<Lo>** parameter allows you to configure the function of automatic operation. In order to save the next measurement, before carrying it out, the mass indication must get below the set net value of **Lo threshold**.

#### Procedure:

- Enter **<P3.Func>** menu and select given working mode.
- Enter **<Lo>** function, window for entering **Lo threshold** value is displayed.
- Enter the value and press  key to confirm, then continue weighing.

## 15. WORKING MODE – WEIGHING

**<UUGG>** is a standard working mode enabling you to carry out weighing along with record of the result to the database.

### 15.1. Local Settings

To go to local settings enter **<3.1.UUGG>** submenu.

3.1.1.Acc	<b>Working mode accessibility</b>	For detailed description read section 14.2.1.
3.1.2.Snn	<b>Save mode</b>	For detailed description read section 14.2.2.
3.1.3.Int	<b>Time interval</b>	For detailed description read section 14.2.3.
3.1.4.Lo	<b>Lo threshold</b>	For detailed description read section 14.2.4.

## 16. WORKING MODE – PARTS COUNTING

Parts Counting is a working mode enabling you to determine quantity of small pieces of the same mass, which determination is done on the basis of mass of sample piece (single part), and where the sample piece mass (single part mass) is determined using the weighing device.

### 16.1. Local Settings


To go to local settings enter **<3.2.PcS>** submenu.

<b>3.2.1.Acc</b>	<b>Working mode accessibility</b>	For detailed description read section 14.2.1.
<b>3.2.2.UUt</b>	<b>Operation mode</b>	For detailed description read section 16.1.1.
<b>3.2.3.Snn</b>	<b>Save mode</b>	For detailed description read section 14.2.2.
<b>3.2.4.Int</b>	<b>Time interval</b>	For detailed description read section 14.2.3.
<b>3.2.5.Lo</b>	<b>Lo Threshold</b>	For detailed description read section 14.2.4.


#### 16.1.1. Selecting Operation Mode

Parameter allowing you to select method of determination of sample piece mass.


##### Procedure:

- Enter **<3.2.PcS / 3.2.2.UUt>** submenu.
- Press  key, parameter values are displayed successively one by one:

<b>S_S</b>	Select to set sample mass by determining mass of a single part.
<b>Suu</b>	Select to set sample mass by entering mass of a single part.

- Press  key to confirm, then continue weighing.

### 16.2. Setting Sample Mass by Entering Mass of a Single Part

- Enter **<3.2.PcS / 3.2.2.UUt>** submenu, set **<Suu>** value.
- Enter **<PcS>** working mode (parts counting), first, text **<SEt\_Ut>** is displayed for 1 s, next, window for entering mass value of a single part.
- Enter the value and press  key to confirm, the home screen is displayed automatically along with quantity of parts loaded onto the weighing pan (pcs).




***If the value of entered single part mass is greater than max capacity value, then message <Err Hi> is displayed.***

### 16.3. Setting Sample Mass by Determining Mass of a Single Part




- Enter <3.2.PcS / 3.2.2.UUt> submenu, set <S\_S> value.
- Enter <PcS> working mode (parts counting), blinking value of sample quantity is displayed.



- Press  key to select one of the following options:

<b>10</b>	Reference sample quantity: 10 pcs.
<b>20</b>	Reference sample quantity: 20 pcs.
<b>50</b>	Reference sample quantity: 50 pcs.
<b>100</b>	Reference sample quantity: 100 pcs.
<b>0000</b>	Custom reference sample quantity - enter the required value yourself.



- Set the respective option and press  key to confirm, first, text <LoAd> is displayed for 1 second, then the weighing window.
- If the parts are to be weighed in a container, first put the container on a weighing pan and tare it.
- Load the weighing pan with declared amount of parts. When the indication is stable ( pictogram is displayed) press  key to confirm the mass.
- Single part mass is calculated automatically, next quantity of parts (pcs) is displayed.




***Total weight value of all parts loaded onto the weighing pan cannot be greater than the max capacity value.***



***Single part mass value must be equal or greater than 0.1 of the reading unit. Unless this condition is met, the weighing device displays a message <Err Lo>.***



***In the course of parts quantity determination before confirming the declared quantity value it is necessary to wait for a stable measurement .***

## 17. WORKING MODE - +/- CONTROL



+/- control is a working mode enabling you to enter values of the checkweighing thresholds (**Min**, **Max**).

### 17.1. Local Settings



To go to local settings enter **<3.3.HiLo>** submenu.

<b>3.3.1.Acc</b>	<b>Working mode accessibility</b>	For detailed description read section 14.2.1.
<b>3.3.2.Snn</b>	<b>Save mode</b>	For detailed description read section 14.2.2.
<b>3.3.3.Int</b>	<b>Time interval</b>	For detailed description read section 14.2.3.
<b>3.3.4.Lo</b>	<b>Lo threshold</b>	For detailed description read section 14.2.4.

### 17.2. Declaring Checkweighing Thresholds

- Enter **<HiLo>** working mode (+/- control), first, text **<SEt Lo>** is displayed for 1 s, next, window for declaring low weighing threshold (Min).
- Enter the value and press  key to confirm, first, text **<SEt Hi>** is displayed for 1 second, next, window for declaring high weighing threshold (Max).
- Enter the value and press  key to confirm, working mode's home screen is displayed along with declared threshold value, where:

<b>Min</b>	Load mass lower than low weighing threshold.
<b>Ok</b>	Load mass within weighing thresholds.
<b>Max</b>	Load mass greater than high weighing threshold.

	<b><i>If the entered low threshold value (Min) is greater than high threshold value (Max), &lt;Err Lo&gt; error is displayed.</i></b>
	<b><i>If the entered high threshold value (Max) is greater than the maximum capacity value, &lt;Err Hi&gt; error is displayed.</i></b>

## 18. WORKING MODE - PERCENT WEIGHING

Percent weighing is a working mode enabling you to compare measured load mass with the reference sample mass. The result is expressed in [%]. Reference sample mass can be either determined by weighing or entered to weighing device memory by an operator.

### 18.1. Local Settings

To go to local settings enter **<3.4.dEu>** submenu.

<b>3.4.1.Acc</b>	<b>Working mode accessibility</b>	For detailed description read section 14.2.1.
<b>3.4.2.UUt</b>	<b>Operation mode</b>	For detailed description read section 18.1.1.
<b>3.4.3.Snn</b>	<b>Save mode</b>	For detailed description read section 14.2.2.
<b>3.4.4.Int</b>	<b>Time interval</b>	For detailed description read section 14.2.3.
<b>3.4.5.Lo</b>	<b>Lo threshold</b>	For detailed description read section 14.2.4.


#### 18.1.1. Selecting Operation Mode

Parameter allowing you to select method of determination of reference weight mass.

##### Procedure:


- Enter **<3.4.dEu / 3.4.2.UUt>** submenu.



- Press  key, parameter values are displayed successively one by one:



<b>S_S</b>	Select to set reference sample mass by determining the mass value.
<b>Suu</b>	Select to set reference sample mass by entering the mass value.



- Press  key to confirm, next go to the home screen.


### 18.2. Reference Sample Mass Determined by Weighing


- Enter **<3.4.dEu / 3.4.2.UUt>** submenu, set **<S\_S>** value.
- Enter **<dEu>** working mode (Percent weighing), first, text **<LoAd>** is displayed for 1 second, then the weighing window.
- Load the weighing pan with the reference sample. When the indication

is stable ( pictogram is displayed) press  key to confirm the mass.

- Mass of the weighed load is automatically set as reference sample mass, the home screen is displayed along with **100.000%** value.

### 18.3. Reference Sample Mass Determined by Entering the Mass Value

- Enter **<3.4.dEu / 3.4.2.UUt>** submenu, set **<Suu>** value.
- Enter **<dEu>** working mode (Percent weighing).
- First text **<SEt\_Ut>** is displayed for 1 s, next, window for declaring mass value of the reference sample.
- Enter the value and press  key to confirm. The home screen is displayed automatically with **0.000%** value.

	<b><i>If the value of entered reference sample mass is greater than max capacity value, then message &lt;Err Hi&gt; is displayed.</i></b>
---	---

## 19. WORKING MODE - PEAK HOLD


Peak Hold is a working mode allowing you to snap value of maximum force applied to the weighing pan during one weighing process.

### 19.1. Local Settings

To go to local settings enter **<3.5.toP>** submenu.

<b>3.5.1.Acc</b>	<b>Working mode accessibility</b>	For detailed description read section 14.2.1.
<b>3.5.2.Lo</b>	<b>Lo threshold</b>	For detailed description read section 14.2.4.

### 19.2. Peak Hold Operation

- Enter **<3.5.toP / 3.5.2.Lo>** submenu, set **<Lo>** parameter value (Lo threshold) after exceeding of which maximum force is to be registered.
- Enter **<toP>** working mode (Peak Hold). From now on the scale registers and holds every single weighting which is above the **Lo threshold**, and which is higher than the result of the previous peak hold. Snapped peak hold value is signalled by **<Max>** pictogram displayed at the top of the screen.
- The start of the next process of peak hold measurement is possible only after removing the load from the weighing pan and pressing  button.
- This causes returning to the home screen of **<toP>** mode. Pictogram **<Max>** is automatically deleted.

## 20. WORKING MODE - TOTALISING





Totalising is a working mode enabling you to sum mass of all weighed ingredients, and to print (via scale-connected printer) the total mass value. The program allows you to sum up to 30 weighings (ingredients) maximum within one process.

### 20.1. Local Settings

To go to local settings enter **<3.6.Add>** submenu.

<b>3.6.1.Acc</b>	<b>Working mode accessibility</b>	For detailed description read section 14.2.1.
<b>3.6.2.Snn</b>	<b>Save mode</b>	For detailed description read section 14.2.2.
<b>3.6.3.Int</b>	<b>Time interval</b>	For detailed description read section 14.2.3.
<b>3.6.4.Lo</b>	<b>Lo threshold</b>	For detailed description read section 14.2.4.



### 20.2. Totalising Operation


- Enter **<Add>** working mode (Totalising), blinking „▲” pictogram is displayed.
- If the ingredients are to be weighed in a container, first put the container on a weighing pan and tare it.
- Load the weighing pan with the ingredient no.1. When the indication is stable (▲ pictogram is displayed) press  key to confirm the mass.
- Total mass value is displayed, now the „▲” pictogram is displayed continuously.
- Unload the weighing pan, **ZERO** is displayed, „▲” marker starts blinking again.
- Load the weighing pan with the ingredient no.2, wait for a stable weighing result and press  key.
- Total mass value of ingredient no. 1 and 2 is displayed, now the „▲” pictogram is displayed continuously.
- In order to finish the process, press  key, text **<Prnt?>** (Print?) is displayed.
- Press  key, total mass value of all recorded weighings is printed on a scale-connected printer.



## Report example:

(1)	13.500 g
(2)	14.400 g
(3)	9.700 g
(4)	100.500 g
(5)	4.000 g
(6)	8.200 g
(7)	20.800 g
(8)	5.800 g
-----	
Total:	176.900 g

- In order to print the report once again press  key.
- To exit "report printout mode" press  key. As a result the home screen of **<Add>** working mode is displayed and all the data get zeroed automatically.

	<p><b><i>If the display capacity is exceeded (i.e. there is not enough space for all the digits of the weighing result) &lt;Hi&gt; error is displayed. In such a case either remove the ingredient from a weighing pan and finish the totalising process or place load of a lower weight value on the weighing pan.</i></b></p>
---	---

## 21. WORKING MODE – ANIMAL WEIGHING





Animal Weighing is a working mode enabling you to weigh products that disrupt efficient establishing of stability. It is mostly intended to measure weight of animals.

### 21.1. Local Settings

To go to local settings enter **<3.7.AnLS>** submenu.

<b>3.7.1.Acc</b>	<b>Working mode accessibility</b>	For detailed description read section 14.2.1.
<b>3.7.2.Aut</b>	<b>Averaging time</b>	Enter this parameter to declare duration of the process in seconds (5s, 10s, 20s, 30s, 40s, 50s, 60s) - on the basis of indications recorded within the set time interval the scale calculates the weighing result, i.e. an average weight value.
<b>3.7.3.Lo</b>	<b>Lo threshold</b>	For detailed description read section 14.2.4.

## 21.2. Animal Weighing Operation



- Enter **<AnLS>** working mode (Animal Weighing).
- First text **<tinnE>** is displayed for 1 s, next, window for setting duration (in seconds) of animal weighing.
- Press  key, parameter values are displayed successively one by one: 5[s], 10[s], 20[s], 30[s], 40[s], 50[s], 60[s].
- Set the respective value, press  key to confirm, weighing window with **A** letter is displayed.
- Load the weighing pan with an animal.
- On exceeding the set mass value of **<Lo> threshold** parameter, animal weighing starts, this is signalled with display of 'dash', **< - >**.
- Upon process completion mass value of an animal is snapped and displayed together with **OK** pictogram in the upper part of the display. The snapped mass value is sent to a scale-connected printer.
- Press  key to restart animal weighing.
- Press  key to reprint the snapped mass value.
- Upon unloading of the weighing platform, the weighing window with letter **A** is displayed. The scale can be loaded with an animal again.

## 22. REPORTS

Weighing device software comprises the following reports:

Report name	Max record qty
Weighings	5 000
Alibi	100 000

To enable archiving of weighing and Alibi reports, a special PC software has been developed by RADWAG Wagi Elektroniczne, **SCALES EDITOR 2.1**. Archiving is carried out via RS232 port of the scale, it requires setting **<5.1.1.Prt>** parameter to **rS1** value.

	<b><i>A detailed procedure of report synchronization is to be found in user manual of SCALES EDITOR 2.1.</i></b>
	<b><i>Set RS232 port parameters in accordance with settings of SCALES EDITOR 2.1.</i></b>

## 23. TROUBLESHOOTING

Problem	Cause	Solution
Scale start-up fail.	Power supply disconnected.	Connect the power supply to the scale.
	Battery discharged.	Connect the power supply to the mains, charge the battery.
	No battery (not installed or installed incorrectly).	Check if the battery is installed correctly (polarization).
The scale switches off automatically.	<7.4.t1> parameter set to value enforcing scale shut-down after particular time interval.	Go to <P7.Othr> menu, set <7.4.t1> parameter to 'nonE' value.
During the start-up, message 'LH' is displayed.	Weighing pan loaded during the start-up.	Unload the weighing pan. Zero indication is displayed.
Communication with the computer not established.	Incorrect computer port set in parameter <5.1.1.Prt>.	Enter < P5.ducE / 5.1.PC> submenu and set correct <5.1.1.Prt> parameter value.
	Incorrect transmission parameters for the selected computer port.	Enter <P4.Conn> menu and set correct transmission parameters for the selected computer port.
	Incorrect printout frequency for continuous transmission.	Enter < P5.ducE / 5.1.PC> submenu and set correct <5.1.3.Int> parameter value.
No printout on a scale-connected printer.	Incorrect printer port set in <5.2.1.Prt> parameter.	Enter < P5.ducE / 5.2.Ptr> submenu and set correct <5.2.1.Prt> parameter value.
	Incorrect transmission parameters for the selected printer port.	Enter <P4.Conn> menu and set correct transmission parameters for the selected printer port.
	No variable declared in weighing printout project.	Enter <P6.Prt / 6.2.GLP> submenu and declare variables that are to be printed.
Communication with the additional display not established..	Incorrect additional display port set in <5.3.1.Prt> parameter.	Enter < P5.ducE / 5.3.AdSP> submenu and set correct <5.3.1.Prt> parameter value.
	Incorrect transmission parameters for the selected computer port.	Enter <P4.Conn> menu and set correct transmission parameters for the selected additional display port.
Displayed mass unit does not comply with the scale data plate.	Changed scale start unit in <9.1.UnSt> parameter.	Enter <P9.Unit / 9.1.UnSt> submenu and set unit complying with the scale data plate.
	Changed custom unit in <9.2.Unin> parameter.	Enter <P9.Unit / 9.2.Unin> submenu and set unit complying with the scale data plate.

## 24. ERROR MESSAGES

-Err2-	Value beyond zero range.
-Err3-	Value beyond tare range.
-Err4-	Adjustment weight or start mass out of range ( $\pm 1\%$ for adjustment weight, $\pm 10$ for start mass).
-Err5-	Battery error. Battery is damaged.
-Err8-	Time of the following operations exceeded: taring, zeroing, start mass determining, adjustment process.
-null-	Zero value from converter.
-FULL-	Weighing range exceeded.
-LH-	Start mass error, indication out of range ( $\pm 10\%$ of start mass).
-Hi-	Display range of total mass on scale display exceeded in 'Totalizing' mode.
-ErrLo-	<ul style="list-style-type: none"> <li>- Determined mass of single part in 'Parts counting' mode too small.</li> <li>- Value of 'Min' threshold is greater than value of 'Max' threshold in '+/- control' mode.</li> </ul>
-ErrHi-	<ul style="list-style-type: none"> <li>- Entered value of single part greater than maximum capacity in 'Parts counting' working mode.</li> <li>- Entered value of 'Max' threshold greater than maximum capacity in '+/- control' mode.</li> <li>- Entered reference mass greater than maximum capacity in 'Percent weighing' mode.</li> </ul>



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