User Manual

Scales of TMX series

Manual number: ITKU-36-06-09-11-A



Terminal E2R Ewidencja v. 1.1.6.119





MANUFACTURER OF ELECTRONIC WEIGHING INSTRUMENTS

RADWAG 26 – 600 Radom 28 Bracka Street - POLAND Phone +48 48 38 48 800, phone/fax. +48 48 385 00 10 Selling department +48 48 366 80 06 www.radwag.com

SEPTEMBER 2011

TABLE OF CONTENTS

	INTENDED USE	
2.	PRECAUTIONS	6
3.	WARRANTY CONDITIONS	6
4.	MAIN DIMENSIONS	7
	DESCRIPTON OF CONNECTORS	
6.	UNPACKING AND ASSEMBLY	9
7.	GETTING STARTED	9
8.	LOGGING ON	10
9.	SCALE WINDOW DISPLAY	11
	9.1. View	
	9.2. Buttons' functions	12
10.	WEIGHING PROCEDURE	12
	10.1. Tarring	13
	10.2. Hand operated tare value entering	14
	10.3. Zeroing of scale	14
	10.4. Weighing on two range scales	15
11.	WINDOW NAVIGATION	15
	PRODUCT CHOICE	
	12.1. Choosing a product by name	17
	12.2. Choosing a product by code	19
13.	CHOICE OF A CONTRACTOR	19
	13.1. Contractor choosing by name	20
	13.2. Contractor choosing by code	21
14.	CHOOSING A PACKING	
	14.1. Choosing a packing by name	
	14.2. Choosing a packing by code	23
15.	STORE CHOOSING	24
16.	STORE CHOOSING	26
16. 17.	STORE CHOOSING	26 27
16. 17.	STORE CHOOSING	26 27
16. 17. 18.	STORE CHOOSING LOT CHOOSING LOT 2 CHOOSING QUANTITY NUMBER CHOOSING DATABASES	26 27 27 28
16. 17. 18.	STORE CHOOSING LOT CHOOSING LOT 2 CHOOSING QUANTITY NUMBER CHOOSING DATABASES	26 27 27 28
16. 17. 18.	STORE CHOOSING LOT CHOOSING LOT 2 CHOOSING QUANTITY NUMBER CHOOSING	26 27 27 28 28
16. 17. 18.	STORE CHOOSING LOT CHOOSING	26 27 27 28 28 28
16. 17. 18.	STORE CHOOSING LOT CHOOSING LOT 2 CHOOSING QUANTITY NUMBER CHOOSING DATABASES	26 27 27 28 28 28 28 29
16. 17. 18.	STORE CHOOSING LOT CHOOSING UANTITY NUMBER CHOOSING DATABASES 19.1. Access to databases edition 19.2. Operators' database 19.2.1. Adding an operator 19.2.2. Editing an operator 19.2.3. Eliminating an operator	 26 27 28 28 28 29 31 32
16. 17. 18.	STORE CHOOSING LOT CHOOSING UANTITY NUMBER CHOOSING DATABASES 19.1. Access to databases edition 19.2. Operators' database 19.2.1. Adding an operator 19.2.2. Editing an operator 19.2.3. Eliminating an operator	 26 27 28 28 28 29 31 32
16. 17. 18.	STORE CHOOSING LOT CHOOSING	26 27 27 28 28 28 29 31 32 33 34
16. 17. 18.	STORE CHOOSING LOT CHOOSING	26 27 28 28 28 29 31 32 33 34 34
16. 17. 18.	STORE CHOOSING LOT CHOOSING	26 27 28 28 28 29 31 32 33 34 34 34 37
16. 17. 18.	STORE CHOOSING LOT CHOOSING LOT 2 CHOOSING QUANTITY NUMBER CHOOSING DATABASES 19.1. Access to databases edition 19.2. Operators' database 19.2.1. Adding an operator 19.2.2. Editing an operator 19.2.3. Eliminating an operator 19.2.4. Operator's authority 19.3. Base of products 19.3.1. Adding products 19.3.2. Product's editing 19.3.3. Product eliminating	26 27 28 28 28 29 31 32 33 34 34 37 38
16. 17. 18.	STORE CHOOSING LOT CHOOSING LOT 2 CHOOSING QUANTITY NUMBER CHOOSING DATABASES 19.1. Access to databases edition 19.2. Operators' database 19.2.1. Adding an operator 19.2.2. Editing an operator 19.2.3. Eliminating an operator 19.2.4. Operator's authority 19.3. Base of products 19.3.1. Adding products 19.3.2. Product's editing 19.3.3. Product eliminating 19.4. Contractors' base	26 27 28 28 29 31 32 33 34 34 37 38 38
16. 17. 18.	STORE CHOOSING LOT CHOOSING LOT 2 CHOOSING QUANTITY NUMBER CHOOSING DATABASES 19.1. Access to databases edition 19.2. Operators' database 19.2.1. Adding an operator 19.2.2. Editing an operator 19.2.3. Eliminating an operator 19.2.4. Operator's authority 19.3. Base of products 19.3.1. Adding products 19.3.2. Product's editing 19.3.3. Product eliminating 19.4. Contractors' base 19.4.1. Adding a contractor	26 27 28 28 29 31 32 33 34 34 37 38 38 38
16. 17. 18.	STORE CHOOSING LOT CHOOSING LOT 2 CHOOSING QUANTITY NUMBER CHOOSING DATABASES 19.1 Access to databases edition 19.2. Operators' database 19.2.1 Adding an operator 19.2.2. Editing an operator 19.2.3. Eliminating an operator 19.2.4. Operator's authority 19.3. Base of products 19.3.1 Adding products 19.3.3. Product eliminating 19.4.1 Adding a contractor 19.4.2. Contractor's base	26 27 28 28 29 31 32 33 34 34 37 38 38 38 40
16. 17. 18.	STORE CHOOSING LOT CHOOSING. LOT 2 CHOOSING. QUANTITY NUMBER CHOOSING. DATABASES 19.1. Access to databases edition. 19.2. Operators' database. 19.2.1. Adding an operator. 19.2.2. Editing an operator. 19.2.3. Eliminating an operator. 19.2.4. Operator's authority. 19.3. Base of products. 19.3.2. Product's editing. 19.3.3. Product eliminating. 19.4. Contractors' base. 19.4.1. Adding a contractor 19.4.2. Contractor's edition. 19.4.3. Contractor's elimination.	26 27 28 28 29 31 32 33 34 37 38 38 38 40 41
16. 17. 18.	STORE CHOOSING LOT CHOOSING. LOT 2 CHOOSING. QUANTITY NUMBER CHOOSING. DATABASES 19.1. Access to databases edition. 19.2. Operators' database. 19.2.1. Adding an operator. 19.2.2. Editing an operator. 19.2.3. Eliminating an operator. 19.2.4. Operator's authority. 19.3. Base of products. 19.3.2. Product's editing. 19.3.3. Product eliminating. 19.4.1. Adding a contractor 19.4.2. Contractor's edition. 19.4.3. Contractor's elimination. 19.4.3. Contractor's elimination. 19.4.5. Base of packages	26 27 28 28 29 31 32 33 34 37 38 38 38 38 40 41 41
16. 17. 18.	STORE CHOOSING LOT CHOOSING QUANTITY NUMBER CHOOSING DATABASES 19.1. Access to databases edition 19.2. Operators' database 19.2.1. Adding an operator 19.2.2. Editing an operator 19.2.3. Eliminating an operator 19.2.4. Operator's authority 19.3. Base of products 19.3.2. Product's editing 19.3.3. Product eliminating 19.4. Contractors' base 19.4.1. Adding a contractor 19.4.2. Contractor's edition 19.4.3. Contractor is elimination 19.5.1. Adding a packing	26 27 28 28 29 31 32 33 34 37 38 38 38 40 41 41 41
16. 17. 18.	STORE CHOOSING LOT CHOOSING LOT 2 CHOOSING QUANTITY NUMBER CHOOSING DATABASES 19.1. Access to databases edition 19.2. Operators' database 19.2.1. Adding an operator 19.2.2. Editing an operator 19.2.3. Eliminating an operator 19.2.4. Operator's authority 19.3. Base of products 19.3.1. Adding products 19.3.2. Product's editing 19.3.3. Product eliminating 19.4. Contractors' base 19.4.1. Adding a contractor 19.4.2. Contractor's edition 19.4.3. Contractor's edition 19.4.4. Adding a packing 19.5.1. Adding a packing 19.5.2. Packino's edition	26 27 28 28 29 31 32 33 34 37 38 38 40 41 41 41 42
16. 17. 18. 19.	STORE CHOOSING LOT CHOOSING LOT 2 CHOOSING QUANTITY NUMBER CHOOSING DATABASES 19.1. Access to databases edition 19.2. Operators' database 19.2.1. Adding an operator 19.2.2. Editing an operator 19.2.3. Eliminating an operator 19.2.4. Operator's authority 19.3. Base of products 19.3.1. Adding products 19.3.2. Product's editing 19.3.3. Product eliminating 19.4. Contractors' base 19.4.1. Adding a contractor 19.4.2. Contractor's edition 19.4.3. Contractor's edition 19.5.4.3. Base of packages 19.5.1. Adding a packing 19.5.2. Packing's edition 19.5.3. Eliminating a packing	26 27 28 28 29 31 32 33 34 37 38 38 40 41 41 42 43
16. 17. 18. 19.	STORE CHOOSING LOT CHOOSING LOT 2 CHOOSING QUANTITY NUMBER CHOOSING DATABASES 19.1. Access to databases edition 19.2. Operators' database 19.2.1. Adding an operator 19.2.2. Editing an operator 19.2.3. Eliminating an operator 19.2.4. Operator's authority 19.3. Base of products 19.3.1. Adding products 19.3.2. Product's editing 19.3.3. Product eliminating 19.4. Contractors' base 19.4.1. Adding a contractor 19.4.2. Contractor's edition 19.4.3. Contractor's edition 19.5.4.3. Base of packages 19.5.5. Base of packages 19.5.1. Adding a packing 19.5.2. Packing's edition 19.5.3. Eliminating a packing 19.5.3. Eliminating a packing	26 27 28 28 29 32 33 34 37 38 38 40 41 41 42 43 43
16. 17. 18. 19.	STORE CHOOSING LOT CHOOSING LOT 2 CHOOSING QUANTITY NUMBER CHOOSING DATABASES 19.1. Access to databases edition 19.2. Operators' database 19.2.1. Adding an operator 19.2.2. Editing an operator 19.2.3. Eliminating an operator 19.2.4. Operator's authority 19.3. Base of products 19.3.1. Adding products 19.3.2. Product's editing 19.3.3. Product eliminating 19.4. Contractors' base 19.4.1. Adding a contractor 19.4.2. Contractor's edition 19.4.3. Contractor's edition 19.5.4.3. Base of packages 19.5.1. Adding a packing 19.5.2. Packing's edition 19.5.3. Eliminating a packing	26 27 28 282 293 323 343 373 383 4041 412 43 43 43

21.	TRANSACTIONS	.46
	21.1. Starting working mode	.46
	21.2. Starting a transaction	.47
	21.3. Continuing a transaction	.49
	STATISTICS	
23.	WEIGHING RECORDING	.51
24.	PROGRAMMABLE BUTTONS	.52
25.	LOGGING OFF	.53
	25.1. Logging off	.53
	25.2. Change-logging	.53
	25.3. Switching off a terminal	.54
26.	CHECKWEIGHING THRESHOLDS	.55
27.	PROGRAM'S OPTIONS	.55
	27.1. Weighing parameters	.55
	27.2. Operators	
	27.2.1. Operator's edition	.57
	27.2.2. Log on procedure	.57
	27.2.3. Authorization	
	27.3. Devices	.60
	27.3.1. Scales	.61
	27.3.2. Printer	.63
	27.3.3. CGM – Apparatus for testing conformation	.66
	27.3.4. Output mode	.67
	27.4. Reports	.69
	27.4.1. Date	
	27.4.2. Laps	
	27.4.3. Print monitoring	
	27.4.4. Export to a file	
	27.4.5. Programme closing	
	27.5. Others	
	27.5.1. Interface view	
	27.5.2. Buttons' functions	.85
	27.5.3. Language	.88
	27.5.4. Application closing	.89
	27.6. Alibi	
	27.6.1. Enabling write memory Alibi	.92
	27.6.2. Deleting a measurement of memory Alibi	.92
	27.6.3. Export measurements alibi to a csv file	.93
	27.6.4. Filter	
	27.7. IN/OUT configuration	
	27.7.1. Inputs configuration	
	27.7.2. Outputs configuration	.95
	27.7.3. Other options	
28.	CONFIGURATOR PROGRAM	
	28.1. Basic Configuration	
	28.2. External configuration	
29	WEIGHING PARAMETRES SETTING	
_0.	29.1. Weighing Server program starting	102
	29.2. List of software menu	103
	29.3. Parameters of scale software	103
	29.3.1. Readout of parameters	103
	29.3.2. Save changes procedure	103
	29.4. Setting a filtering level	104
	29.5. Median filter	
	29.6. Autozero function	-
	29.7. Scale software settings	
	5	-

	29.8. Closing WeighingServer program	107
30.	ERROR MESSAGES	107
31.	LABEL DESIGNING	107
	31.1. Label pattern making	108
	31.2. Inventory of variables:	111
32.	DIAGRAMS OF CONNECTION CABLES	113
	32.1. USB cable (adapter)	113
	32.2. USB printer cable	
	32.3. RS232 printer cable	
	32.4. Ethernet cable	
	32.5. RS232 terminal – computer cable	114
	32.6. RS232, RS485 cable - colours	115
	32.7. RS232C cable - colours	115
33.	CONNECTORS	115
	33.1. RS232, RS485 connector	116
	33.2. Ethernet connector	
	33.3. USB connector	
	33.4. RS232C connector	116
34.	SPECIFICATION OF ADDITIONAL MODULES	117
	34.1. Weighing module MW-02	117
	34.1.1. Module technical specification	118
	34.1.2. Weighing platform signal wires colours	118
	34.1.3. Weighing platform connecting	119
	34.1.4. The way of installing inside PUE 5	121
	34.2. Additional 8 inputs / 8 outputs module	122
	34.2.1. Technical specification	123
	34.2.2. Installing method in POE 5 terminal	123
	34.2.3. I/O diagram	124
	34.2.4. Description of input output wires P10082	124
	34.3.1. Technical specification	120
	34.3.1. Technical specification	120
	34.3.3. Installing method in PUE 5 terminal	120
	34.4. Analogue output module AN series	120
	34.4.1. Technical specification	
	34.4.2. The way of installing inside PUE 5	127
	34.4.3. Configuration of work modes of analogue modules	128
	34.4.4. Connections to AN module	129
	34.5. Profibus interface DP V1	130
	34.5.1. Technical specification	130
	34.5.2. Colours of wires	
	34.5.3. The way of installing inside PUE 5	130
35.	ADDITIONAL EQUIPMENT	
	TECHNICAL PARAMETERS	
	APPENDIX A – SETTING A BARCODE SCANNER	

1. INTENDED USE

Scales of TMS series with TERMINAL E2R EWIDENCJA are intended to be used for measuring and at the same time recording the data in local database or on server. The application is especially important when the weighed products are not directly related one to another by any common data or they are not a part of the weighing process with its beginning and end, for example deal or order. The net of scales connected together enables transmitting the measurement results to the main database installed on server.

2. PRECAUTIONS

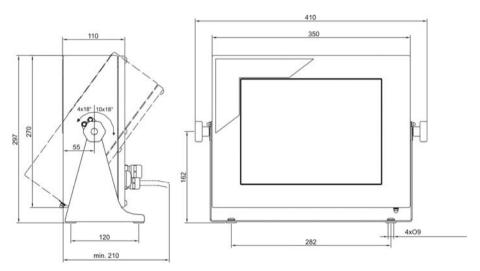
- A. Please, read carefully this user manual and use the device according to its intended use;
- B. Weighed loads should be placed in most possible central part of scale pan;
- C. Do not clean the device with agents causing corrosion;
- D. Gross mass of goods loaded on weighing pan should be lower than maximal capacity of the scale;
- E. Do not leave heavy loads on the pan for long time;
- F. In case of failure, scale power supply should be disconnected immediately;
- G. Devices that are to be withdrawn from usage should be utilized according to the law regulations.

3. WARRANTY CONDITIONS

- A. RADWAG is obliged to repair or exchange those elements that appear to be faulty because of production and construction reasons,
- B. Defining defects of unclear origin and outlining methods of their elimination can be settled only in presence of a user and the manufacturer representatives,
- C. RADWAG does not take any responsibility in case of damages or losses caused by non-authorized or inappropriate production or service procedures,

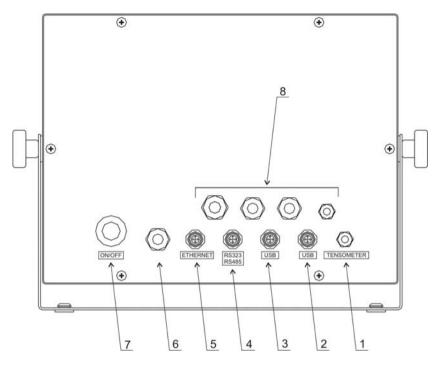
- D. Warranty does not cover:
 - Mechanical failures caused by inappropriate maintenance of the device or failures of thermal of chemical origin or caused by atmospheric discharge, overvoltage in mains or other random events,
 - Cleaning service.
- E. Warranty expires after:
 - Access by an unauthorized service,
 - Intrusion into mechanical or electronic construction of unauthorized people,
 - Removing or destroying protection stickers.
- F. The detailed warranty conditions are specified in warranty certificate.
- G. Authorized service line:+48 48 384 88 00 ext. 106 or 107.

4. MAIN DIMENSIONS



Main dimensions of PUE 5

5. DESCRIPTON OF CONNECTORS



Back side view of PUE 5

Connectors in standard version:

- 1 Strain gauge cable gland
- 2 USB connector
- 3 USB connector
- 4 RS232, RS485 connector
- 5 Ethernet connector
- 6 Power cord cable
- 7 ON/OFF switch
- 8 Glands of optional equipment (8IN/8OUT, 4IN/4OUT, RS485 via gland, additional platform, etc)

NOTICE:

All connectors can be used in any configurations.

6. UNPACKING AND ASSEMBLY

- A. Remove the scale from the packaging,
- B. Place the scale on even and hard surface far from heat sources,
- C. Scale should be levelled by turning levelling foot. Levelling is correct if air bubble is in central position of level indicator located on scale's base.



7. GETTING STARTED

- Turn on the scale pressing the **ON/OFF** switch on the back side of the terminal. Then Windows loading will start.
- After the starting procedure, the main window of TERMINAL E2 EWIDENCJA application will be displayed automatically.

Time	Hass[g] Product Oper Contrac	107	0.0	
		T	-12	+0+
		Product		
				1
		Contractor		
				1
		Lot number		
Weighing thresho	ilds			
Weighing thresho	Nds			
Weighing thresho	Nds			
	0.511 kg			
globili total quartity	0.511 kg 1			
ylobal total				

Notice:

The main programme's window view can be changed by choosing suitable setting options.

8. LOGGING ON

You have to log on every time you start the scale.

Caution:

Logging on is necessary in order to record weighing results and to choose article, contractor, wrappings, store, lot number from the database

Procedure:

• While in the main application window, press "log in", then this will appear:

ter					
lode	Operator				1
					6
Code: 1 Operator: Oper	ator 1				~
					*
					^
					~
					×
					×
sort by code	sort by operator	Lastin	1	Cancel	O Ok ,

• Press "Operator 1", then the main window will appear and the information about the logged user will be shown in top-left corner of the application:

	Logged operator :	Operator 1 Login time: 12:14:05	
--	-------------------	---------------------------------	--

Caution:

"Operator 1" has got the "administrator's" authority, what makes a scale's user have direct access to all the program functions. The application consists of four authority levels, which are described later in the manual.

In the information line the following can be found:

Log off time	-	Time of user's logging off or turning on terminal's applications
User's name Time of logging	-	User's name and the time of logging

9. SCALE WINDOW DISPLAY

9.1. View

The scale window is located in the upper right corner of the screen:



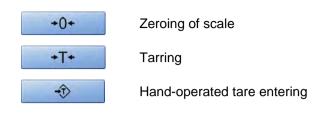
After the starting procedure the following symbols be displayed in scale's window:

-0-	- precise zero indication	
_		

- measurement result is stable
- kg weighing unit
- $\overline{\Delta 1 \Delta}$ weighing platform number

If the pan is unloaded and there is no zero indication – click the zeroing button.

9.2. Buttons' functions



10. WEIGHING PROCEDURE

Put a load on the scale pan. When \square appears the result can be read. In order to record the weighing result press:

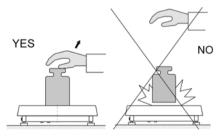


Caution:

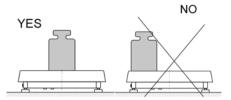
To save the weighing result operator must be logged on and product must be chosen from database first.

In order to assure long-term operation and correct measurement results, follow the steps:

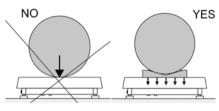
• Loads should be placed on the pan slowly and carefully in order to avoid mechanical shocks:



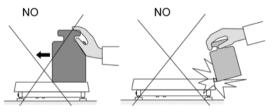
 Loads should be placed centrally on the pan (errors caused by eccentric weighing are outlined by standard PN-EN 45501 point 3.5 and 3.6.2):



• Do not load the pan with concentrated force:

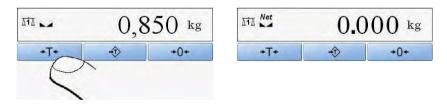


Avoid side loads, particularly side shocks should be avoided



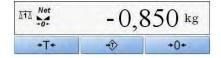
10.1.Tarring

In order to get the net weight put the load on pan and press when it is stable (zero is indicated and **Net** symbol appears in top left corner of weighing window).



After placing a load on the weight pan net mass will be shown. Tarring is possible within the whole range of the scale. While tarring, remember that the maximum capacity of scale should not be exceeded.

After unloading product and packing from the pan the display shows the tarred value with "minus" sign:



Notice:

Tarring process cannot be performed while the display shows a negative or zero value. Then **Err3** will appear on weighing window display.

10.2. Hand operated tare value entering

It is also possible to enter a tare value by hand.

Procedure:

- While in main window press , and you will see the following window:
- Using number buttons enter the required value and accept it by clicking
- The scale returns to weighing mode.
 The inscribed value will be preceded by "-",
- Tarring can be applied at any time during weighing.
- Use button **K** to remove the previous value.



10.3.Zeroing of scale

Press $\bullet 0^{+}$ in program's weighing window to get zero indication. Symbols: $\bullet 0^{+}$ and $\bullet a$ will appear.

Zeroing is equivalent to setting a new zero point interpreted by the scale as the precise zero point. Zeroing can be performed only when display is stable.

Notice:

Zeroing is possible only within the range of $\pm 2\%$ of maximum scale's capacity. If the zero value is beyond this range, **Err2** message will be displayed.

10.4. Weighing on two range scales

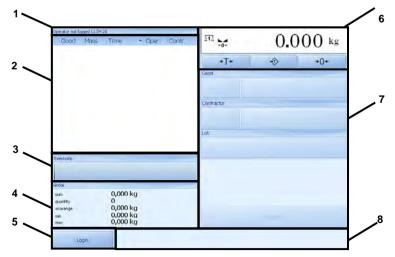
Switching between the **I range** and the **II range** weighing appears automatically without operator's presence when I range maximum value is exceeded. Starting II range weighing is indicated by $\rightarrow |2|$ symbol in the top left corner of the scale window. When loading is eliminated the indication returns to zero value. Until then the scale remains in the **II range**.



Switching between the **II range** and the **I range** takes place automatically after loading elimination, when the indication returns to AUTOZERO range and symbol $\bullet 0 \bullet$ appears. Then II range symbol disappears and weighing is performed again with the accuracy of the **I range**.

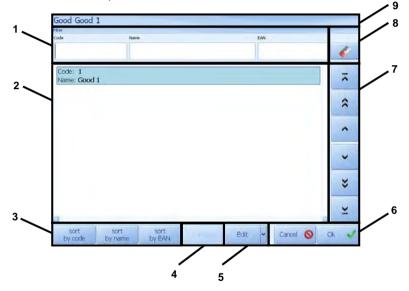
11. WINDOW NAVIGATION

MAIN PROGRAM'S WINDOW DESCRIPTION



- 1 Information line
- 2 Recorded weighing results window
- 3 Mass bar chart
- 4 Database of statistics
- 5 Log off/log on button
- 6 Weight window
- 7 Choosing items from database buttons
- 8 Programmable buttons

Choice window description/edition of database items



- 1 Displayed items filtering fields
- 2 Database items displaying window
- 3 Sorting buttons
- 4 Ten latest displayed items button
- 5 Addition/edition/elimination database items button
- 6 Change approval/refusal or selection buttons
- 7 Rewinding chosen items buttons
- 8 Filtering cleaning
- 9 Information window

Screen keyboard window

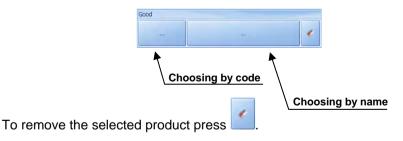
+ T	2 3	3 4	5	6 7	8	9	0		-	-
Tab o	a w	e (t	у	u	1	0	p		1
Caps Lock	as	d	t	g h	1	k	1	a l		
Shift	z	x	y v	b	n	m			1	St
Ctrl	Alt								Alt	
< >							1	cancel	T	-



- Window clearing
- Cursor moving arrows

12. PRODUCT CHOICE

In the main program window the scale's user can choose product from database by name or code, as the picture shows:



12.1. Choosing a product by name

Procedure:

• Start product choosing by name procedure according to point 12 of the manual and you will see the following:

Good Produ							
code	name				EAN		
							4
code: 1 name: Produ EAN: 59014							~
							*
							^
							~
							×
4							×
sort by code	sort by name	sort by EAN	Last 10	Edit	• C	ancel 🚫	Ok 🗸

• Choose the demanded product, then the program will automatically return to main window, where the product's code and name will appear in appropriate fields:

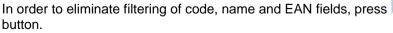


- In case of large number of products in the database, user can search:
 - by code
 - by name
 - by EAN code of product

As it is shown in the picture below:

sort by code	
sort by name	
sort by EAN	

- searching by code
- searching by name
- searching by EAN code





12.2. Choosing a product by code

Procedure:

• Enter the product choosing by code mode according to point 12 of the manual so you can see :

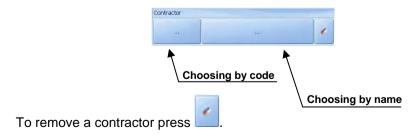


- Using the screen keyboard load the demanded product's code and accept it pressing button.
- The program will automatically return to the main window, displaying code and name of the chosen product in appropriate fields.

		1
1	Product 1	1

13. CHOICE OF A CONTRACTOR

In the main application window scale's user can choose a contractor from database by code or product's name, according to the following picture:



CAUTION!

Contractor's choice window will be accessible after setting up its profile in the main application window, according to point 27.5.1 of the manual.

13.1. Contractor choosing by name

Procedure:

• Choose constructor choosing by name mode according to point 13 of the manual, then you will see the following:

Contractor Co	ontractor 1						
Filter Code	Name						
							ø
Code: 1 Name: Contrac	tor 1						×
							*
							^
							*
							×
4							×
sort by code	sort by name	Edit	~	Cancel	0	Ok	1

• Press the required contractor's profile and the program will automatically return to the main window, displaying code and name of chosen contractor in appropriate fields:



- In case of large number of contractors in database, user can filter or search by:
 - contractor's code,
 - contractor's name

As it is shown in the picture below:



- Searching for contractor by code
- Searching for contractor by name

In order to eliminate code and name fields' filtering, press **even** button.

13.2. Contractor choosing by code

Procedure:

• Enter constructor choosing by code mode according to point 13 of the manual, so you can see the following:

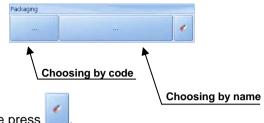
											1
• 1	2	3 4	5	6	7	8	9	0	-	-	-
Tab q	w		r	t y				0	p	t.	1 1
Caps Lock	a	s d	f	g	h	J	k	1			-
Shift	z	×	c	v t	o r	n n	n			,	Shift
Ctrl	Alt									Alt	Ctrl
< >									cancel	1	ok

- Using screen keyboard, load the required contractor's code, then accept it pressing button.
- Program will automatically return to the main window, displaying the demanded contractor's code and name in appropriate fields.



14. CHOOSING A PACKING

In the main application window the user can choose a packing by its code or name as follows:



To remove a package press

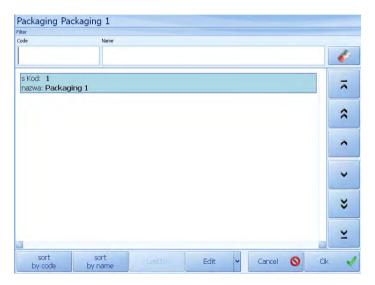
Caution!

Packing choosing window will be accessible after setting up its profile in the main application window, according to point 27.5.1 of the manual.

14.1. Choosing a packing by name

Procedure:

• Enter choosing a packing by name mode according to point 14 of the manual, so you can see the following:



• Press required packing, then the program will return to the main window displaying code and name of the chosen packing



- In case of large number of packages in database user can filter or choose by:
 - code of packing,
 - name of packing,

As the picture shows:



- Searching packages database by code
- Searching packages database by name

In order to eliminate code and name fields' filter, press

button.

14.2. Choosing a packing by code

Procedure:

• Enter choosing a packing by code mode according to point 14 of the manual so you can see the following:

ter packag	jing co	de									10.4
• 1	2 3	3 4	5	6	7	8	9	0	-	=	-
Tab q	w	θ	r	t	у	u	i c	p p] \
Caps Lock	a s	5 C	i f	g	h	J	k	1	i	4	
Shift	z	х	c	v	b	n r	m ,		1		Shift
Ctrl	Alt									Alt	Ctrl
$\langle \rangle$									cancel		ok

• Using screen keyboard, enter the demanded code of packing and

```
accept it pressing _____ button
```

• The program will automatically return to the main window displaying code and name of chosen packing in appropriate fields.



15. STORE CHOOSING

User can choose a source and target store according to following picture

Destination store	
	- Target store choosing
Source store	
•••	- Source store choosing

To remove a store/warehouse press

CAUTION!

Target and source store choosing window will be accessible after setting up its profile in the main application window according to point 27.5.1 of the manual.

Procedure:

• Choose source or target store, then you will see the following:

ker Code	Name	
Code	None	*
Code: 1 Name: Sale		~
Code: 2 Name: Purcha	se	2
Code: 3 Name: Store1		^
		*
		×
		×
sort	sort	

• Choose demanded store, then the program will automatically return to main window, displaying name of chosen store in appropriate field:

e		
Purch	nase	
	e Purch	e Purchase

- In case of large number of stores in database, user can filter or search by:
 - store's code
 - store's name,

As the picture shows:

sort by code	
sort by name	

- Searching stores' database by code
- Searching stores' database by name

In order to eliminate code and name fields' filter, press



16. LOT CHOOSING

Scale's user can load a lot number for each weighing. In order to do that, Press the button appropriate for loading a lot number in the main application window.



Lot/batch window can be cleared by pressing

Caution!

Lot choosing window will be accessible after setting up its profile in main application window, according to point 27.5.1 of the manual.

Procedure:

• Load a lot number to keyboard window

Enter LOT			
· 1 2 3	4 5 6 7 8 9 0	- 1	-
Tab q w	ertyuio	p [1 1
Caps a s	d f g h j k l		-
Shift z	x c v b n m .	1	Shift
Ctri Alt		Alt	Ctrl
< >		cancel	ok

• The program will automatically return to main window, displaying loaded lot number in appropriate field.



17.LOT 2 CHOOSING

User weight for each weighing can indicate the number of LOT 2.



Procedure for defining the LOT is the same as in paragraph 16 of the instructions.

18. QUANTITY NUMBER CHOOSING

Procedure:

In order to assign a weighting number which acts as a descriptive panel, press the main weight of responsibility for the introduction of a quantity.



Then, with the numeric keypad enter any number.

	<	
7	8	9
4	5	6
1	2	3
0	+/-	

Entered number is displayed on the button and is stored in the weighing .



19. DATABASES

19.1. Access to databases edition

Procedure:

• While in database choice window, press Edit button, then the following will be displayed:



19.2. Operators' database

Caution!

Operators' database edition is accessible in the program's options for logged user who has the administrator's or advanced authority. Operators' database can be also edited while user's change-logging.

Procedure:

• In order to edit operators' database, press

Setup.

Logout

Press

in operator's log off window.

• Press Operators button in option window



• Press Operators 'edition button



• Access to operators' database window will be displayed:

Operator Oper								
Code	Operator							
								\$
Code: 1 Operator: Opera	tor 1							×
Code: 2 Operator: Opera	tor 2							*
								^
								~
								×
								¥
sort by code	sort by operator	Lastin	Edit	~	Cancel	0	Ok	J

19.2.1. Adding an operator

Procedure:

• Enter the operators choosing window according to point 19.2 of the manual, then press:



according to point 19.1 of the manual, then, the following will be displayed:

Editing operator:		
Code		in a second s
Name		
	Basic	~
	.Set password	
	Cancel 🚫	Add 🖌

And as the picture shows:

name*	 operator's name field
code*	- operator's code field
authority	 user's authority type
set up password	- setting up user's password

- *) filling in is obligatory
 - Press text field or button
 in order to load operator's data
 (code, name)

Tab Q	2 3 W		5 6	7 8	9	0 .		+
Tab Q	w							
		E R	ΤΥ	U	1 0	P	L	1 1
Caps Lock	s	D	F G	H J	к	L		-
Shift	z	× c	V B	N	M y		1	Shift
Ctrl	Alt						Alt.	Ctrl

The buttons' functions:



- Approval of loaded new information
- Refusal of loaded new information

• After operator's code and name loading, set up authority level pressing a button below; choose an option from unrolled list:

Basic	~
Supervisor	
Advanced	
Standard	
Basic	

• Set up operator's password, pressing Set password. Using keyboard that appears on the terminal's screen, enter the password and accept it.

Caution!

You have to enter identical password twice, otherwise information about error will be displayed:

Password nod confirmed co	rectly
In order to accept adding an operator press:	Add 📢
In order to refuse adding an operator press:	Cancel 🔕

19.2.2. Editing an operator

Procedure:

• Enter operators choosing window according to point 19.2 of the manual, choose an operator you want to edit, then, according to point 19.1 of the manual, press:



this is what will appear on the screen:

Code	1	3
Name	Administrator	- 9
	Supervisor	
	Set password	

Complete the fields according to information in point 19.2.1 of the manual

Cancel

- In order to accept all changes, press
 Apply
- In order to refuse changes, press

19.2.3. Eliminating an operator

Procedure:

• Enter operators choosing window according to point 19.2 of the manual, then according to point 19.1 press:



then the window will appear:



Accept eliminating an operator pressing:

19.2.4. Operator's authority

Operators' authority table

		Administrator	Advanced	Standard	Basic
operations	logging on a terminal weighing (choice of variables) reports Min Max thresholds options setting weighing parameters switching off a terminal closing the program adding			×××	XXXX
contractors packages	editing eliminating adding editing		$\mathrel{>}$	\bigotimes	\bigotimes
articles	eliminating adding editing eliminating			>	\bigotimes
operators	adding editing eliminating authorization, way of logging on	- <u></u> -			×



- accessible



- inaccessible

19.3. Base of products

19.3.1. Adding products

Procedure:

• Using product choosing by name button in main program window enter base of products, then, according to point 19.1 of the manual, press:



and this will appear:

Code			
Vame			
EAN			
Mass		Tare [kg]	
	- • 🛛 🔳	西	
Price		max [kg]	
	=	西	
min [kg]		Temperature	
	(二) 五	the second se	
Jsability time			
	**	Label field edition	
/AT [%]		Label	
			۴
		Cancel 🚫 Add	~

- press: button or text field in order to load data.
- in order to accept adding a product press:



• in order to refuse changes press:

Fields to be completed:

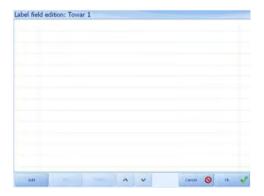
Name*	-	name of product
Code*	-	code of product
EAN	-	EAN bar code of product
Price	-	retail price of product
Mass	-	net weight
Tare	-	tare weight
Min	-	product's min threshold
Max	-	product's max threshold
Validity time	-	No of validity days of a product after the day of weighing
Temperature	-	Storage temperature (text field)
Edit Label Field	-	This field can hold any information about the product
VAT [%]	-	Interest rate of VAT
Label	-	File selection box printed labels for the goods

*) – filling in is compulsory

Notice!

Using button a barcode can be read directly from the label. A barcode scanner allows quick product selection provided it is described by EAN code field.

Editing the window of ingredients



After pressing

Label field edition

a window appears in

which additional information can be inscribed e.g.: ingredients. Every line (L1-Ln) can be printed separately, see additional information in ch. 31.2.

In order to add this field press and then enter the text for the line.

nter text										1
· 1	2 3	4	5	6	7	8	9	0	. =	-
Tab q	w	e r	t	у	u	I	0	p	[1
Caps Lock	a s	d	f	g	h	j I	<		;	
Shift	z	x	×	b	n	m	,			Shift
Ctrl	Alt								AltGr	Ctrl
< >								car	ncel	ok

The line is displayed in the window.

1	eld edition: Towa Example			
Add		1	Cancel 🚫	

Functions of buttons in the window:



- Add a line
- Edit a line
- Delete a line
- Change line position
- Cancel changes
 - Confirm changes

19.3.2. Product's editing

Procedure:

• Using choosing product by name button in the main program window enter base of products, then choose product to be edited, and according to point 19.1 of the manual press:



then the following will be displayed:

Product edition: Towar 1	
Code	
1	
Name	
Towar 1	
EAN	
5901480002186	
Mass	Tare
0.5 kg • 🙇 📋	a diama di
Price	max
	西
min	Temperature
西	
Usability time	
1. The second se	Label field edition
VAT [%]	Label
#	6
	Cancel 🚫 Apply 🚽

Fill in the fields according to point 19.3.1 of the manual

- In order to accept changes, press
- In order to refuse changes, press

19.3.3. Product eliminating

Procedure:

• Using product choosing by name button in the main program window enter base of products, choose product to be eliminated, and then according to point 19.1 of the manual press:



chosen product will be eliminated.

19.4. Contractors' base

19.4.1. Adding a contractor

Procedure:

• Using contractor choosing by name button in the main program window, enter contractors base, then according to point 19.1 of the manual press:





the following will appear:

Contractor creatin	g:				
Code					h
Name					0
Post code					
Street					
TIN					
Post code					
Discount[%]			_abel code		-
				Cancel	S Add
Press	outton or te	ext field ir	order to	load data	
In order to acc	ept adding	g a contrad	tor press	Add	~

Fields to be completed:

Code*	-	product's code
Name*	-	product's name
Place of living	-	contractor's place of living
Street	-	street and number
TIN	-	tax identification number
Post code	-	post code
Discount [%]	-	discount assigned for contractor
Label code	-	code of label printed for contractor

*) - filling in is compulsory

19.4.2. Contractor's edition

Procedure:

• Using contractor choosing by name button in main program window, enter contractors base, choose a contractor to be edited, then according to point 19.1 of the manual press:



then the following will be displayed:

Code	1	
Name	Contractor 1	
Town	Radom	
Street	Bracka 26	
VatNo	999-999-99	
Post code	26-600	
Discount[%]	10 Label code 1	

Complete the fields according to point 19.4.1 of the manual.

• In order to accept changes press



• In order to refuse changes press

19.4.3. Contractor's elimination

Procedure:

• Using contractor choosing by name button in the main program window, enter contractors' base, choose a contractor to be eliminated and according to point 19.1 of the manual press:



chosen contractor will be eliminated from database.

19.5. Base of packages

19.5.1. Adding a packing

Procedure:

• Using packing choosing by name button in the main program window, enter base of packing, then according to point 19.1 of the manual press:



the following will be displayed:

Name							1	
Code								2
Barcode								
Mass[kg]								
- Contraction								
	Barcode							

• In order to accept adding a packing press:



In order to refuse changes press:

The spaces' meaning:

Name*	-	name of packing
Code*	-	code of packing
Barcode	-	bar code of packing
Mass [kg]	-	weight of packing

*) - fill in obligatory

19.5.2. Packing's edition

Procedure:

• Using choosing a contractor by name button in the main program window, enter contractors database, choose a contractor to be edited, then, according to point 19.1 of the manual, press:



the following will be displayed:

1 123	
123	
0,15	
	0,15

complete the fields according to point 19.5.1 of the manual.

- In order to accept changes, press:
- In order to refuse changes, press:

19.5.3. Eliminating a packing

Procedure:

• Using choosing a packing by name button in the main program window, enter packages base, choose a packing to be eliminated and, according to point 19.1 of the manual, press:



chosen packing will be eliminated from database.

20. COUNTING PIECES

Standard software in weighing terminals PUE5 comprises an additional working mode – counting pieces. The database of weighings holds measurements in pieces of the same weight. If counting pieces is performed in an additional container it needs to be tarred before putting counting pieces into it.

20.1. Enabling working mode

Procedure:

• While in the main window press

Logout

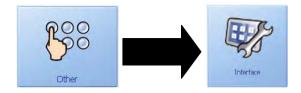
03

Setup

- While in the operator logout window press
- Then press in sequence buttons:







In the interface window tick Counting Pieces. You will see **V**.

In the interface window, select the **Operating modes** and **Counting pieces** tab, select **Active**.

Choice fields	Operating mode	Elements	Response
Transactions	Counting pieces	CGM	Orders
Active			1
1			Cancel 🔕 Ok 🤸
Ok 🗸	2 times.		

• The introduced changes are confirmed by pressing

The working mode is on when the pcs unit is on the display:



In the weighing window additional column $\ensuremath{\text{Pieces}}$ appears apart from weighing in $\ensuremath{g}.$

	Time 🔹 🝷	Mas	Pro	Op	Contr	Pieces
•	1/11/2011	3	Towar 1	Admi	Kontrah	(

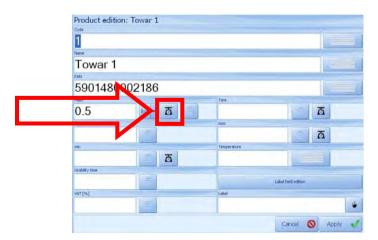
20.2. Setting reference unit mass

The reference unit mass can be set by estimating single piece mass in the main program window using a function key attributed to this function. Settings are described in ch. 27.5.2 of this manual.

+T+	+0+	+
Mass		
Piece mass	0 kg	14
Total mass	0.000 kg	
Quantity		
Quantity	10	00

After zeroing the platform put pieces on the pan and inscribe the quantity in field **Number of Pieces**. Single piece mass is estimated automatically.

The reference unit mass can be also set in the assortment database. After opening the window below press the button next to the mass field as shown below.



The third way of setting the reference mass is to inscribe its value in the field **Mass** in the window above.

21. TRANSACTIONS

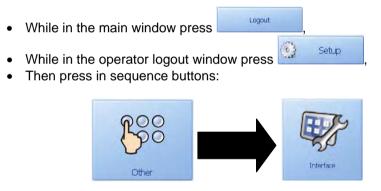
PUE5 weighing terminals with the extended software version can operate in working mode transactions. The weighing process is connected with selling transactions – purchasing, production orders, servicing orders and stock management. A new transactions can be created on the terminal. It can be temporarily suspended or terminated.

Notice!

The full functionality of the transaction mode comprising stock management, reports, supervising transactions can be obtained in the E2R Transakcje program in PC version.

21.1. Starting working mode

Procedure:



In the window of interface outlook tick **Transactions**. You will see **V** next to it.

Choice	fields	Operating mode	Elements	Response
Transa	actions	Counting pieces	CGM	Orders
明	Active			
w.	Ask for labels	number during label printing while saving	i.	
				Cancel 🚫 Ok
				Cancel 🚫 Ok
ess Ok	~	two times.		Cancel 🚫 Ok

Confirm the introduced changes by pressing

21.2. Starting a transaction

There is button **new** in the main window to start a transaction.



Choose transaction type.

M-M Przesurwęcie Między Magazynowe	
SPR Sprovlat	
ZAK Zahar	

Types of transaction:

M-M Transaction Between Warehouses	 Moving a product from one warehouse to another.
SPR Sell	 Transaction of selling that requires outlining of a contractor and a source warehouse.
ZAK Purchase	 Transaction of buying that requires outlining of a contractor and a target warehouse.

The next step is to choose a contractor to be attributed to the transaction and a source or target magazine. When moving between warehouses contractors are not necessary. Only a source and target warehouses are required.

Contractor Co	ontractor 1							
Filter code	name							
code	name							ê
code: 1 name: Contrac	tor 1							×
								*
								^
								*
								×
								¥
sort by code	sort by name	Let 11	Edit	*	Cancel	0	Ök	¥

Accessible warehouses:

Code 1	-	Sell
Code 2	-	Purchase
Code 3	-	Warehouse1

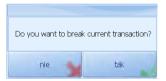
After choosing all necessary parameters in the main program window detailed transaction information appears and a transaction symbol is attributed. All weighings in the transaction are attributed to a given unique symbol.

Current transaction		
23-11/13/1//13 SPR Sprzedaz Contractor: Contractor 1 Source store: Zakup	break	end

A transaction in progress can be terminated or completed using an appropriate button **break** or **end**.

Suspending a transaction allows to postpone it until it is selected again. During a transaction is suspended other transactions can be created, continued or terminated.

To suspend a transaction press **yes** in the window below.



After a transaction is completed/closed new weighings cannot be performed within this transaction. Press **yes** to close the transaction.

Dou you want to finish cu	urrent transaction?
no	yes

21.3. Continuing a transaction

A transaction can be continued after pressing **continue** button in the main window.



From the list of transactions choose the one you want to continue and press **Ok**.

start date: 10/6/2009 symbol: 6-10/8/1/1/2 kind: SPR	start date: 10/6/2009 symbol: 6-10/9/1/1/8 kind: ZAK	~
start date: 10/6/2009 symbol: 6-10/8/1/1/3 kind: ZAK	start date: 10/6/2009 symbol: 6-10/13/1/1/9 kind: SPR	*
start date: 10/6/2009 symbol: 6-10/9/1/1/4 kind: ZAK	start dale: 10/6/2009 symbol: 6-10/15/1/1/10 kind: ZAK	^
start date: 10/6/2009 symbol: 6-10/9/1/1/5 kind: ZAK	start date: 11/20/2009 symbol: 20-11/9/1//11 kind: SPR	
start date: 10/6/2009 symbol: 6-10/9/1/1/6 kind: ZAK	start date: 11/20/2009 symbol: 20-11/14/1//12 kind: M-M	*
start date: 10/6/2009 symbol: 6-10/9/1/1/7 kind: ZAK	start date: 11/23/2009 symbol: 23-11/13/1//13 kind: SPR	÷

Until the transaction is closed it is accessible on the list of suspended transactions.

22. STATISTICS

All the statistic data is regularly updated after loading each measuring data to scale's database. Data interlock can be seen in bottom left corner of the main program window.

Global		
sum	0,000 kg	
quantity	0	
avarange	0,000 kg	
min	0,000 kg	
max	0,000 kg	

Statistic data is updated globally irrespective of weighed product.

23. WEIGHING RECORDING

All weighing results are saved in MS SQL database, which is stored locally or on another weighing terminal or server.

Mass[g] Product Oper.		0.0	JU kg
	+T+	-\$	+0+
	Product		
	1	Towar 1	14
	Contractor		
	1	Kontrahertt 1	1
	Lot number	Lot 2 number	
0.003 kg			
0.003 kg 1 0.003 kg 0.003 kg			
		Product 1 Contractor 3	+T+ 🛞

After pressing SAVE button, weighing result will be displayed automatically in the chart. The last twenty weighings are present on the list.

All weighings are displayed in grams in the table.

Additionally, user can sort certain columns increasingly or decreasingly, pressing chosen column's name.

In **Terminal E2R Ewidencja** user with administrative privileges have access to the preview, or removal of weighings made with the reports by stating the following area.

The window displays all recorded measurements.

The **E2R SYSTEM** which is connected to the terminal window displays a few measurements only the current terminal.



The primary filter, the filter weights is presented as of the date - to date. By default, when you start windows are presented last two days.



After selecting the weighing and selecting edit and delete, the weighting will be awarded as an archive which means that it will not be presented in the report.

Delete		Cancel	0	Ok	1
	ator	Kontrahent 1	Towar 1		_
	ator	Kontrahènt 1			1
	stor	Kontrahent 1	Towar 1		
	ator	Kontrahent 1	Towar 1		
	ator	Kontrahent 1	Towar 1		~

Jeżeli ważenie zostało odznaczone przypadkiem jako archiwalne to za pomocą funkcji edytuj i dodaj, możemy wyłączyć status archiwalne i od tej pory ważenie będzie prezentowane w raportach.

		Cancel	0	Ok	1
	ator	Kontrahent 1	Towar 1	×	
	ator	Kontrahent 1	Towar 1		—
	ator	Kontrahent 1	Towar 1		
Add	ator	Kontrahent 1	Towar 1		
	ator	Kontrahent 1	Towar 1		

24. PROGRAMMABLE BUTTONS

In the main program window user can choose out of 5 optionally configured function buttons.



Save button's function can be transmitted to **F1-F5** buttons or switched off.



25. LOGGING OFF

Log off button in the main program window is used for logging off and switching off the terminal. The options are accessible if the logged user has got administrator's or advanced authority.

To exit the operator's log off window, Press:



25.1. Logging off

Log off function is used when a scale's user is finishing his work and the terminal is not switched off.

Procedure:

- In order to log off an operator press:
- Then press *Log off* button:



Logout

• Program will automatically return to its main window

CAUTION!

All functions that are necessary for weighing recording are inaccessible until the next logging.

25.2. Change-logging

Change-logging function is used when the first weighing terminal's user is finishing and next one is starting his work.

Procedure:

• In order to change-log an operator press:



• Then press *Change-log* button:



• List of accessible users will be displayed; after one of users is chosen, the program returns to its main window automatically.

25.3. Switching off a terminal

User can switch off a weighing terminal only if he is logged on.

Procedure:

- Press
- Then press Switch off terminal button:



Accept switching off terminal choosing Yes



• When the information *"It is now safe to turn off your computer"* is displayed, turn off scale's power pressing **ON/OFF** which is located on the back side of terminal's casing.

26. CHECKWEIGHING THRESHOLDS

In the main program's window user can see checkweighing thresholds' results (MIN,MAX) in a bar chart

Thresholds min: 0,950kg max: 1,050kg	
	1

Checkweighing thresholds data is taken from database of a product or programmed with function buttons described in point 27.5.2 of the manual.

27. PROGRAM'S OPTIONS

Procedure:

- In order to enter program's options, user with administrator's or advanced authority must be logged on.
- Press in program's main window,
 Setup
- Press: in log off operator window ,

CAUTION!

Changes made in the options must be approved in the main window by

button options



27.1. Weighing parameters

Setting up basic weighing parameters.

Procedure:

• Enter program's options according to point 27 of the manual, then press:



	<u>⊼1⊼</u> +0+	0.000 kg → UNITS
	<mark>→T+</mark> +()← UNITS <u>⊼市⊼</u>
Name	Value	Read V/ite
<		WS v1.1.3

• Window with weighing parameters will be displayed automatically

Weighing Server program configuration platforms connected by weighing module **MW02** is described in point 24 of the manual.

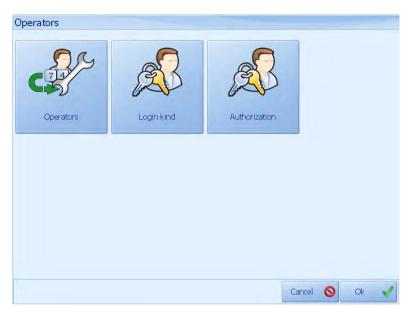
27.2. Operators

The option enables operators' edition and setting logging and authorization mode.

• Enter program's options according to point 27 of the manual, then press:



Then the window with accessible operator's options will be displayed:



27.2.1. Operator's edition

Edition, that is adding, changing or eliminating an operator has been described in point 19.2 of the manual.

27.2.2. Log on procedure

Procedure:

• Enter operator's options as instructed in point 27.2 of the manual, then press:



• Choose logging procedure:

Login kind					
		Collect form list			
	*	Select from list			
	~	Enter code of operator			
l					
			1	Durring	start
			Cancel	0	Ok 🖌

Accessible option will be marked with **V**.

- in order to accept loaded changes, press:
- in order to refuse changes, press:

Note that:

Select from list	-	While logging, user chooses operator's name or code from database and has access to list of all operators
Enter code operator	-	While logging, user is supposed to enter operator's code; he does not have access to the list of operators
During start	-	Switching on the option can cause a situation that while weighing meter is starting, logging window, with list of accessible users or operator's code entering window (up to the setting) can open automatically. Entering incorrect data can result in starting main program's window with no user logged on

0

Cancel

27.2.3. Authorization

Procedure:

• Enter operator's options as instructed in point 27.2 of the manual, then press:



Choose authorization mode:

1	Without autorization		
4	Password		
		Cancel 🔕	Ok

• In order to accept changes, press:



• In order to refuse changes, press:

Note that:

Without authorization _	In order to log on to a program, the user is supposed to enter chosen operator's password
Password -	While logging, password entering option is not active

CAUTION!

If **Without authorization** and **Select from list** point 27.2.2 options are accessible at the same time, then user with subordinated authority can log on one of administrator's accessible profiles, which enables him to get access to most of program's options.

27.3. Devices

Devices option enables devices' and connected to weighing terminal interfaces' edition.

Procedure:

• Enter program's options as instructed in point 27 of the manual, then press:



- Devices Balances Printer CGM Utput Modes Canel Canel
- Accessible devices will be displayed in the window below:

27.3.1. Scales

The option enables configuration of scales connected to the weighing terminal PUE5 with Ethernet or RS232/485.

Procedure:

• Enter devices option as instructed in point 27.3 of the manual, then press:



• Choose a scale to be edited then press:



Edit

• Set up appropriate data in parameter edition window



Note that:

Description	-	optional characteristics of scale
Host	-	host's IP address, default 127.0.0.1 specifies local computer's address,
Port	-	scale's port's number UDP/TCP
Database id	-	Platform's identification number
LO Threshold	-	LO threshold value for a particular platform.

LO Threshold parameter is related to the function of the automatic operation and control outputs.

For automatic operation, the measurement will not be saved to the database until an indication of not descend below the set threshold LO net.

27.3.2. Printer

The option enables setting up labelling printer, which is installed in operational system. Additionally, it is possible to design a label for labelling printer and indicate saved label's file.

CAUTION!

Now it is possible to set up a printer which prints labels after **Save** button in the main program's window has been pressed.

Procedure:

• Enter devices options as instructed in 27.3 of the manual, then press:



• Then window of options accessible for designing and labelling printer prints setting will be displayed

Labels	
Printer name	
	*
Design labels	
6	
Label patterns file	
•	
Active label printing	
1	
Labels printing active while measurement recording	
1	
Printed labels - 0: ask for the number	
1	
<i>4</i>	Cancel 🚫 Ok 🗹

• In order to accept changes press:

Ok	1	
Cancel	0	

In order to refuse changes, press:

Note that:

Name	-	Here you can choose labelling printer accessible in operational system. After printer has been installed in operational system, it will be added to the list automatically.
Design labels	-	Starting Edytor Etykiet program, used for label designing. To find out how the program works, read point 26 of the manual.
Label patterns file	-	Indicating recorded on local disc file which will be the printed label's pattern.
Active label printing	-	Label printing switching on /off options

Labels printing active while measurement recording	Additional options associated with printing labels, which allows you to disable printing of labels during the recording. Enable option to print labels for each record.
Printed labels	Number of printed labels,When set to 0, you write the part number printed labels.

CAUTION!

Printing labels is available after setting the printer, the standard label and select the two options **Active printing**.

• Select the number of labels

If the parameter number of printed labels is set to 0 then the record appears in the following dialog choose the number of labels. Entering any number of prints the same number of labels.



• Select the label template

When a label indicating the file, remember that before it is placed in the location: C:\Program Files\RADWAG\Terminal E2R Ewidencja\lab. Labels saved in this folder should have the extension *. lb.

🖌	Name Name • ESCONCECT		-		
Active label premis			-		
abele pertrag active while					
+			-	:	
Prived labels - 2 with for H		Anului	DK.		

27.3.3. CGM – Apparatus for testing conformation

The program works with the apparatus to examine the conformation which allows registration at the weighing of information on meat quality. Hardware configuration requires you to set the communication port and speed.

Procedure:

• Enter devices option as instructed in point 27.3 of the manual, then press:



• You will then see a dialog where you can set the COM port to which the terminal device is connected.

CGM					
Port					
	none				~
Port velocity					
	9600				*
					-
		C	ancel 🚫	Ok	~

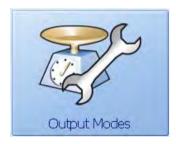
27.3.4. Output mode

Output mode options allows you to configure the two selected outputs are activated depending on the current position in relation to 0, the threshold MIN and MAX currently selected item.

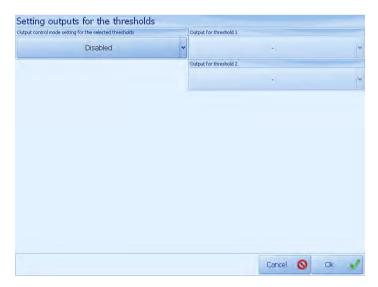
This feature can be used to control the process of dispensing the goods or alarm thresholds.

Procedure:

• Enter devices option as instructed in point 27.3 of the manual, then press:



• Then in the window, select one of the modes for thresholds and assign the starting threshold.



OUTPUT MODE	THRESHOLD	STATE OF MASS	Dosing rough	Dosing accurate
Threshold 1,2 to MIN	1	0 - MIN	1	1
Threshold 2 to MAX	2	MIN- MAX	0	1
Threshold 1 to MIN	1	0 - MIN	1	0
Threshold 1,2 to MAX	2	MIN- MAX	1	1
Threshold 1 to MIN	1	0 - MIN	1	0
Threshold 2 to MAX	2	MIN- MAX	0	1
0	1	0 - MIN	0	0
Threshold 1 from MIN	2	MIN- MAX	1	0
Threshold 1,2 from MAX	3	> MAX	1	1
0	1	0 - MIN	0	0
Threshold 1 from MIN	2	MIN- MAX	1	0
Threshold 2 from MAX	3	> MAX	0	1

CAUTION !

In the case of mode 3 release trigger outputs to turn off the third fret on the threshold dose MAX. Dosing process will be activated only when the mass reaches the platform MIN.

Thresholds can be attributed only to go free. In the case of occupied disable all the outputs assigned functions at the point **27.7.2**

Output for thres	-	~
	ġ.	
	1	
	2	
	9	

After making changes to output mode, the new functionality will be allocated only to the newly selected item from the main program window. Select the product to test out.

27.4. Reports

The option enables preparing and printing the weighing results report or write a report on the terminal disk in a file format PDF, XLS or CSV.

NOTE:

Versions of reports are described below 9.11.9.0. PUE5Reports.dll file reports is located at Terminal installed E2R.

Procedure:

• Enter the programme's options as instructed in point 27 of the manual, then press:



• Then the following window will be displayed. Last two days' weighing results will be shown in reports window:

		Date		M., _		Prod	Operator 🔄	Contractor	L 2	T	Platform
	7										
	۲	11/13/2009	11:4	0.387	kġ	Towar 1.	Administr	Kontrahe	S12	0,197	1
ort 1		11/13/2009	11:01 .	. 0.419	kg.	Towar 1	Administr	Kontrahe	S 1	0.197	1
		11/13/2009	11:01 .	. 0.419	kg	Towar 1	Administr	Kontrahe	S 1	0.197	1
		11/13/2009	11:01 .	. 0.419	kg	Towar 1	Administr	Kontrahe	S 1	0.197	1
		11/13/2009	11:01 .	. 0.419	kg	Towar 1	Administr	Kontrahe	S 1	0.197	1
		11/13/2009	11:00 .	. 0.419	kg.	Towar 1	Administr	Kontrahe	S12	0.197	1
		11/13/2009	10:59.	. 0.419	kg	Towar 1	Administr	Kontrahe	S12	0.197	1
		11/13/2009	10:59 .	. 0.419	kg	Towar 1	Administr	Kontrahe	S12	0.197	1
		11/13/2009	10:59.	. 0.419	kg	Towar 1	Administr	Kontrahe	S12	0.197	1
		11/13/2009	10:59.	. 0.419	kg	Towar 1	Administr	Kontrahe	S12	0.197	1
		11/13/2009	10:59.	. 0.430	kg	Towar 1	Administr	Kontrahe	S12	0.197	1
		11/13/2009	10:59 .	. 0.430	kg	Towar 1	Administr	Kontrahe	S12	0.197	1
wt2		11/13/2009	10:59.	. 0.430	kg	Towar 1	Administr	Kontrahe	S12	0.197	1
		11/13/2009	10:59.	. 0.430	kg	Towar 1	Administr	Kontrahe	S12	0.197	1
		11/13/2009	10:59.	. 0.441	kg	Towar 1	Administr	Kontrahe	S12	0.197	1
		11/13/2009	10:53.	. 0.441	kg	Towar 1	Administr	Kontrahe	S12	0.197	1
		11/13/2009	10:53 .	. 0.441	kg	Towar 1	Administr	Kontrahe	S12	0.197	1
		11/13/2009	10:53 .	. 0.441	ka	Towar 1	Administr	Kontrahe	S12	0.197	1

27.4.1. Date

Date is the main criterion of report preparing.

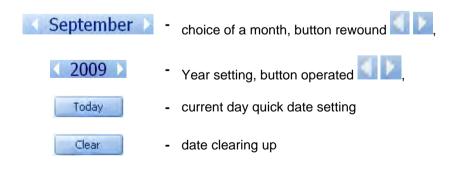
Procedure:

- Enter reports window as instructed in point 27.4 of the manual
- Set up the initial and final calendar date, using button placed near date field.

From: 20	09-09	-23	11	a.		o:	200)9-0	9-2	5	
	Sep	ten	ibe	r F	4	20	09				
	М	Т	W	Т	F	S	S				
	31	1	2	3	4	5	6				
	7	8	9	10	11	12	13				
	14	15	16	17	18	19	20				
	21	22	23	24	25	26	27				
	28	29	30	1	2	3	4	1			
	5	6	7	8	9	10	11				
	0	Today			C	lear					

Calendar window will be closed after day has been chosen.

The fields enable following:



27.4.2. Laps

Using laps(**Report 1**, **Report 2**) located on the left, user sets various report displaying options.



Following options can be used with laps

- column displaying order change
- column adding and eliminating from the view
- text field column filtering
- button column filtering
- increasing and decreasing column sorting

After exiting the programme, laps remain unchanged until return to default view function is used.

• Column order changing

To change column displaying order, a certain column's name must be pulled over and placed on another column's name. The other column from now on will follow the column we needed to replace. The example below shows replacing **mass** column in such a way that as a result **contractor** column follows it:

	Date	Good	Mar - Age Mass	• Operator
	0			
	9/30/2009 11:18 AM	Good 1	Contractor 1	2000.000 Administrator
eport 1	• 9/30/2009 11:24 AM	Good 1	Contractor 1	2000.000 Administrator
	9/30/2009 11:24 AM	Good 1	Contractor I	2000.000 Administrator
	9/30/2009 11:18 AM	Good 1	Contractor 1	2100.000 Administrator
	9/30/2009 11:18 AM	Good 1	Contractor 1	2100.000 Administrator
econ 2				

• Menu

In order to get access to extended menu, you need to hold your finger a bit longer on a column.





Note that:

ź↓ Z↓	Sort ascending Sorting descending	-	displaying all column's lines sorted increasingly displaying all column's lines sorted decreasingly
	Clear sorting	-	sorting a column's lines elimination
B	UnGroup	-	grouping of displayed lines according to chosen column; dividing results in grouping elimination
	Grouping field	-	switching on a grouping field, where columns' headings can be placed
	Remove This column	-	column's displaying elimination
雷	Column Chooser	-	turning on adjusting window, from which eliminated columns can be drawn
	Best Fit	-	automatic column's size matching
7	Filter editing	-	starting an advanced options creator filtering
	Best fit (all columns)	-	automatic matching of all columns' size
	Full Expand *	-	grouped results rewinding





Full Collapse *

- winding up all the results

Clear Grouping *

elimination of grouping accessible after choosing a grouping field

*) - options accessible if grouping field window is switched on

Columns filtering

In order to filter a column's data, write down the needed phrase in first line:



Keyboard

Mark the first line and press:

· 1	2	3	4	5	6	,	8	9	0		-
Tab	w F		r	t	y	U	1	0	p	t	1 1
Caps Lock	a	\$	d	r	g 1		1	ĸ	1	1	+
Shift	z	×	c	v	b	n	m			1	Shift
Ctrl	Alt		_							AltGr	Ctrl
										Anuluj	OK.

After having entered needed phrase, press:

Records similar to the given phrase will be displayed in the column.

After pressing button which is located near column's name, user can choose a filtering criterion from accessible list

(Custom) (Blanks) (Non blanks) Product 1	

	Clear	Filter
--	-------	--------

In order to clear up loaded data displaying column filter, press in main window.

• Sorting

Sorting is possible after column or menu pressing . Sorting mode is

displayed as changing sign:

Choosing columns

Use the button Choice of columns to customization window of the drag on two sides of any column.

											Customization	×
	Date 🔹 🔛		1 44	444	Oper	Con 2		1	P		Destination	*
₽		-		·								
*	11/13/200	0	kg.	To	Admin	Kontr	S	0	1		Masa Gram	
	11/13/2009	0	kg	То	Admin	Kontr	S	0	1		Masa aran	
	11/13/2009	0	kg	То	Admin	Kontr	S	0	1			
	11/13/2009	0	kg	То	Admin	Kontr	S	0	1		Mass gram	
	11/13/2009	0	kg	То	Admin	Kontr	S	0	1			
	11/13/2009	0	kg	То	Admin	Kontr	S	0	1		Max	
	11/13/2009	0	kg	То	Admin	Kontr	S	0	1			-
	11/13/2009	0	kg	То	Admin	Kontr	S	0	1	_		
	11/13/2009	0	kg	То	Admin	Kontr	S	0	1		Min	
	11/13/2009	0	kg	То	Admin	Kontr	S	0	1			
	11/13/2009	0	kg	То	Admin	Kontr	S	0	1		Pieces	
	11/13/2009	0	kg	То,	Admin	Kontr	S	0	1			
	11/13/2009	0	kg	То	Admin	Kontr	S	0	1		Product Code	
	11/13/2009	0	kg	То	Admin	Kontr	S	0	1		The second	
	11/13/2009	0	kg	То	Admin	Kontr	S	0	1			
	11/13/2009	0	kg	То	Admin	Kontr	S	0	1		Source	
	11/13/2009	0	kg	То	Admin	Kontr	S	0	1	-		-
	11/13/2009	0	kq	То	Admin	Kontr	S	0	1	×	T	

Available Columns:

Date	-	Date and time of weighing
Mass	-	Mass unit set on the basis of the goods

Mass Gram Masa unit Unit Operator Product Contractor Tara LOT Platform Destination Max	- - -	Mass of weighing in gram unit Mass unit set in the base of the product Unit set up in the database of the product Operator Name Product name Name of contractor Tara LOT, batch symbol Number of platform The name of the target store Threshold for the maximum weighted product
Contractor	-	Name of contractor
Tara	-	Tara
LOT	-	LOT, batch symbol
Platform	-	
Destination	-	•
Max		
Min	-	Threshold for the minimum weighted product
Pieces	-	Number of pieces
Product code	-	Product code
Transaction	-	Symbol transactions
Source	-	Name of the source magazine
		-

27.4.3. Print monitoring

Before printing, optionally: grouping, filtering and sorting of the information displayed in window can be done. Eliminated columns will not be displayed in reports.



After having prepared appropriate report, press:



In print monitoring window, ready report view will be displayed:

Juick rint		Zoom Out Zoo	S 40	File	e Close Print Preview		Variable file name Export		
int	Navigation	Zoom	+	Export	12 million have h	5	0.407		-
	11/13/2009 11:01	0.419kg	Towar	Administrat	And the second second second		0.197	1	
	11/13/2009 11:01	0,419kg	Towar	Administrat	A Among and and a second of a	1	0.197	1	
	11/13/2009 11:01	0.419kg	Towar	Administrat	the second second		0.197	1	
	11/13/2009 11:00	0.419kg	Towar	Administrat	Kontrahent	S123	0-1	1	
	11/13/2009 10:59	0.419kg	Towar	Administrat	Kontrahent	S123	0.197	1	
	11/13/2009 10:59	0.419kg	Towar	Administrat	Kontrahent	S123	0.197	1	
	11/13/2009 10:59	0.419kg	Towar	Administrat	Kontrahent	S123	0.197	1	
	11/13/2009 10:59	0.419kg	Towar	Administrat	Kontrahent	S123	0.197	1	
	11/13/2009 10:59	0.430kg	Towar	Administrat	Kontrahent	S123	0.197	1	
	11/13/2009 10:59	0.430kg	Towar	Administrat	Kontrahent	S123	0.197	1	
	11/13/2009 10:59	0.430kg	Towar	Administrat	Kontrahent	S123	0.197	1	
	11/13/2009 10:59	0.430kg	Towar	Administrat	Kontrahent	S123	0.197	1	
	11/13/2009 10:59	0.441kg	Towar	Administrat	Kontrahent	S123	0.197	1	
	11/13/2009 10:53	0.441kg	Towar	Administrat	Kontrahent	S123	0.197	1	
	11/13/2009 10:53	0.441kg	Towar	Administrat	Kontrahent	S123	0.197	1	
	11/13/2009 10:53	0.441kg	Towar	Administrat	Kontrahent	\$123	0.197	1	

Buttons displayed in the window:



quick print	<pre>sending a document directly to default printer</pre>
first page	- passing on to the first report's page
previous page	- passing on to the previous report's page
next page	- passing on to the next page
last page	- passing on to the last report's page
zoom out	zoom out in order to see larger space of

the page

0	zoom in	zoom in in order to see enlarged part of the report
8	print monitoring closing	closing the report print monitoring
2	PDF File	- Export to PDF file format
	Excel File	- Export to XLS file format
	CSV File	- Export to CSV file format
1	Variable name file	- Variable export file name
	export	- Constant export file name

27.4.4. Export to a file

Adequately prepared the report print to a printer installed in the operating system. In the absence thereof, the report can be exported to a file in one of three available file formats, ie, PDF, XLS and CSV. All exported reports are stored on your terminal in **C:\RadwagExport**.

With a button **Variable name file export** you can export the file name to save the report with different name which contains the date or file name to generate a constant - data.pdf, data.csv, data.xls.

Note:

If you select the file name has all the previously saved results are deleted and inserted in their place are new.

27.4.5. Programme closing

To exit report window, press:



27.5. Others

The option enables interface view, functional buttons, language and various program's options configuration.

Procedure:

• Enter program's options as instructed in point 27 of the manual, then press:



• Choose demanded option from Others window



27.5.1. Interface view

User can modify main program's window, that is, turning on/turning off certain elements which can be seen in the main window.

Fields of the main screen:

- contractor choosing button
- packing choosing button
- target store button
- source store button
- lot number loading button,
- lot 2 number loading button,
- entered quantity loading button,

Elements of the main screen:

- statistics windows,
- bar chart windows,

Operating mode of the main screen:

- transactions,
- counting pieces,
- CGM,
- Orders.

Response - features:

- Tarring after saving,
- Ask about product usability offset while saving,
- Clear Entered Quantity After Print,
- Autoprint.

The importance of the buttons:



- Function not acrive
- Function active

Procedure:

• Enter **Others** options as instructed in point 27.5 of the manual, then press:



• Choose elements (functions) of main program window from interface view window.

Choice fields	Operating mode	Elements	Response	
			Required	Visible
Concractor choice			+	1
Source store choice			+	1
Target store choice			4	×
Lot number entering			4	1
Lot number 2 entering			1	1
Packing choice			1	1
Enter Quantity			1	1
			Cancel 🔕	Ok I
ordor to opp	ant abangaa proce	Ok 🖌		
	ept changes press	,		

• In order to refuse changes, press:

27.5.1.1. Choice fileds

Buttons in the column **Required** select the required parameters for the right of the main window while writing manual or automatic. This is equivalent to the need to fill some fields in the main window.

Buttons in the column **Visible** meet accessibility (visibility) of the button in the main window.

Choice fields	Operating mode	Elements	Response	
			Required	Visible
Concractor choice			4	1
Source store choice			+	+
Target store choice			4	×
Lot number entering			4	+
Lot number 2 entering			1	1
Packing choice			1	1
Enter Quantity			1	1

27.5.1.2. Operating mode

Tab transactions module provides transaction activation button in the main terminal and the function of enforcing the window displays the number of record labels each time you weigh.

hoice fields	Operating mode	Elements	Response
Fransactions	Counting pieces	CGM	Orders
Active			×
Ask for labels r	number during label printing while saving		1
-			

Counting pieces Tab provides activation counting module in the main terminal.

nterface			
Choice fields	Operating mode	Elements	Response
Transactions	Counting pieces	CGM	Orders
Active			1
			Cancel 🚫 Ok 🖌

Tab CGM provides activation of cooperation with the camera module to study conformation in the main terminal.

CGM option to remove the data after saving measure allows for the cleaning of the information in the main window after recording.

Optional data entry required for measuring input forces from the camera when saving measure.

This option allow you to record the measurement with incorrect data for testing purposes we allow you to record a measurement with misinformation.

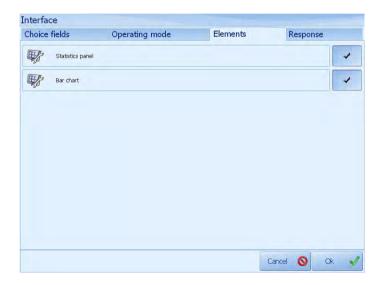
	Operating mode	Elements	Response Orders		
ransactions	Counting pieces	CGM			
Active			*		
Clear CGM da	ita after measurement saving		3		
Data required	for measurement saving		4		
Allow for mea	surement with incorrect data saving				

Orders tab allows you to order, including the module which is an extension module for transaction orders sent from the E2R transactions from your PC.

hoice fields	Operating mode	Elements	Response
Fransactions	Counting pieces	CGM	Orders
Active			+

27.5.1.3. Elements

On the elements of statistics and activate the panel bar graph, in the main window.



27.5.1.4. Response

On the behavior can activate the functions performed by the program. Tarring after saving allows you to automatically tare the platform after each measurement record.

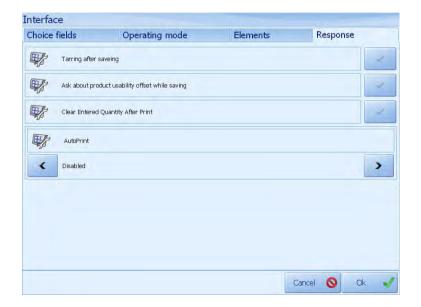
Ask to offset the suitability of the goods during the recording allows you to display a window during the recording in which the operator can extend the product's shelf. To the days of the goods listed in the database will be added to the number of days entered in the window.

Reset function introduced after the entry number allows you to remove value from the previous measurement for the number of units entered.

Autosave feature lets you record to a database of measurements without operator intervention on the panel weight.

Autoprint functions:

Disabled -	•	Disabled
Last Stable Above	-	Record last stable weight measurement before descending below the LO
First Stable Above	•	Write the first stable measurement above the threshold LO.



27.5.2. Buttons' functions

User is able to configure main program's window programmable (functional) buttons.

Procedure:

• Enter **Others** option as instructed in point 27.5 of the manual, then press:



• From **Buttons' Functions** window choose visibility of main program's window buttons.

	Vis.	Function	Label
F1	+	None	
F2	+	None	
F3	4	None	
F4	~	None	
F5	~	None	
Save	1	Save measument	

• After choosing button's visibility, choose adequate function:

	Vis.	Function	Label
F1	1	None	
F2	4	None	
F3	4	None	
F4	4	None	
F5	4	None	
Save Save	1	Save measurment	

• In function choosing window, choose one of accessible functions:

1	No	1	Reports
1	Statistics clearing	1	Tare entering
2	Record of printing a single label	4	Lot number entering
1	Record labels without printing	4	Measurement saving
1	Operator logging out	4	Low threshold setting
1	Operator logging in	4	High threshold setting
1	Mass pattern defining	1	Transaction start
1	Program closing	1	Transaction ending
e.	Increasing the precision	1	Label print

• To accept the changes, press:



- To refuse the changes, press:
- After having chosen button's function, enter button's label.

Buttons function	ons		
	Vis.	Function	Label
F1	+	Closing application	
F2	4	None	
F3	1	None	
₩ F4	+	None	
F5	4	None	
Save	1	Save méasurment	
			Cancel 🔕 Ok 📢

ter label											
· .	2	3 4	5	6	8		a	0 -	-	-	+
Tab q	w	e	r t	y	ü	1	0	p	1	1	1
Caps Lock	a	s d	1	g 1		,	•	1			+
Shift	z	×	c v	b	n	m	a		1		Shift
Ctrl	Alt								A	it	Ctrl
< >								c	ancel	1	ok

- In order to accept changes press:
- In order to refuse changes, press:



Accessible functions list:

- No
- statistics clearing,
- Record of printing a single label,
- Record label without printing,
- Operator's logging off,
- Operator's logging on,
- Mass pattern definig
- Closing program,
- Increasing the precision,
- Reports,
- Tare loading,
- Lot number entering,
- Measurement saving,
- minimum threshold setting,
- maximum threshold setting
- creating a transaction,
- terminating a transaction.
- Label print

27.5.3. Language

Program is accessible in following language versions:

- Polish
- English
- German
- French
- Czech
- Spanish

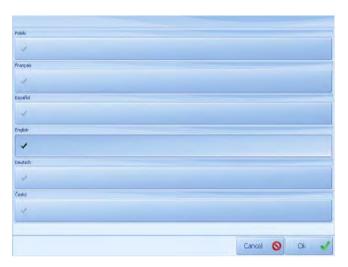
Procedure:

• Enter **Others** option as instructed in point 27.5 of the manual, then press:





• Choose required language and accept it pressing:



CAUTION!

Changing program's language version does not influence Weighing Server (weighing parameters window) or Label Editor (label designing) language versions.

27.5.4. Application closing

Program's closing and passing to Windows XP Embedded operational system are accessible in other options.

Procedure:

• Enter **Others** option as instructed in point 27.5 of the manual, then press:



• Accept the choice in application closing window.



27.6. Alibi

E2R Terminal has the ability to save records of weighings in a place independent of the SQL database.

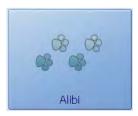
Configuration options are available for the administrator and power user has access to view content.

Weighing saved in the Alibi include:

- Time,
- Mass,
- Tare,
- Unit,
- Product name,
- Operator name,
- Contractor name,
- Serial number,
- Source stock,
- Target stock,
- Packaging.

Procedure:

• Enter **Others** option as instructed in point 27.5 of the manual, then press:



• In the full terminal window will appear weighing Alibi memory.

Alibi mer	Alibi memory									
Pull over a	olumn he	ading for		iping						
Time	Ma	iss Tare	Unit	Product	Opera	Contr	Serial	Sourc	Target	Packing
Oner.	ations	*	Filte	r					cl	ose 🧹
opor	ww.wi.iu		Theo						Ch	

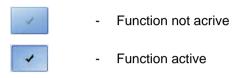
• Using the Actions you access to options related to memory Alibi.

Clear measurements
Perform
Number of secure days
60
Active measurements recording
1
Export
Perform
Operations 🗸

27.6.1. Enabling write memory Alibi

Enabling the Alibi is pressing the select button, Operations and Active record measurements as described below.

The importance of the buttons:



27.6.2. Deleting a measurement of memory Alibi

Button to clear the complete measurements, measurements removes the set has secured days. The program allows you to record multiple measurements with the number is only limited at the time of removal.

When you delete a measurement will be displayed:



Successful removal of measurements outside the specified range will be confirmed by the message:



27.6.3. Export measurements alibi to a csv file

All listed measurements are saved to a file in *. csv separated by semicolons. Each time a record will be confirmed following message.



27.6.4. Filter

In the main window of measurements stored in the Alibi is available filtering and grouping of records.

To this end, hit the button filt, and then in the window below the box indicate that you want to search and view the memory window Alibi.

Filter	
Initial time	
Final time	
	· ·
Product	
	· ·
Operator	
	e
Contractor	
	•
	<i></i>

Deleting a filter for a particular field means of a button and the button below allows you to remove a filter to all fields.

27.7. IN/OUT configuration

For terminal equipped PUE5 derived I / O configure their operation.

Procedure:

• Enter **Others** option as instructed in point 27.5 of the manual, then press:



27.7.1. Inputs configuration

On the input we can assign a specific function to the selected input depending on its activation or deactivation. The assignment of the input is activated by pressing work or until you reach the input signal. The assignment of the work input is activated when the button is released, or when the input signal disappears.

nputs		Outputs	Other	
Enabling		Disabling		
put 1				
	Disabled		Disabled	
put 2		11		_
	Disabled		Disabled	
put 3		11		
	Disabled		Disabled	
put 4				
	Disabled		Disabled	

The list of available functions assigned to the input:

- Disabled,
- Tarring,
- Zeroing,
- Increased accuracy,
- Print.

Function			
Disabled		2	
Tarring			
Zeroing			
Increased accuracy			
Print			
		~	
		×	
	Anuluj	OK	

27.7.2. Outputs configuration

On the output assign specific functions activating or inactivating the selected output. The assignment of the output activation will produce a signal at the output. The assignment of the deactivation of the output will disable the output.

nputs	Outputs	Other
Enabling Output 1		Disabiling
	Deabled	Desilied
output 2		
	Disabled	Disabled
Output 3		- 0
	Stable	No Stable
Output 4		
	Mass below LO	Mass over LO

The list of available functions assigned to the input:

- Disabled
- Mass first stable > LO
- Mass below LO
- Mast last Stable > LO
- Mass over LO
- After saving measure
- Stable
- No Stable

Action		
Disabled		
Mass First Stable > LO		1
Mass below LO		
Mass Last Stable > LO		4
Mass over LO		^
After saving measure		
Stable		
No Stable		¥
		~
		~
	Anulut	

27.7.3. Other options

On the other options are available concerning the terms of inputs / outputs that can make the operator from having to log in, or completion of all required data.

Inputs	Outputs	Other	
ctive input / output when:			-
4	operator log	and .	
ctive input / output when:			
2	filed with the requ	red data	

28. CONFIGURATOR PROGRAM

28.1. Basic Configuration

Terminal to Terminal PUE5 E2R records that has the settings allow you to work in the local SQL database.

If the terminal is designed for networking, need to change the factory settings. To run the setup file Config.e2r delete the folder C:\Program Files\RADWAG\Terminal E2R Ewidencja in the file that contains all the necessary terminal settings.

		O from 1	0.	-	lyszukal 💽 Fi		a XI	9		Przejdź
	-		Program Priesije	DEWINA (THINK	nal E2R Ewidencja		0			in mana
		Q.	De	de-De	En	Es	Ð.	lab	lang .	
		lang back	Language	Layout	LicenceCoulig	kaps	DAPR.	AM5.dl	Salakerop	
		Si bedt.dl	bcdt.pdb	BRDT.dR	EPOT.pdb	Sav a	Crvis.dl	Crvis.pdb	Christikuda	
		CrwistOX.pdb	Chriswo.di	CrylsWD.pdt	S. contox.d	Config.e2r	De Cripres	DevExpres	DevExpres	
		DevExpres	DevExpres	DevExpres	DevErpres	DevExpres	DevExpres	DevExpres	DevExpress.	-
<i>.</i>							Next :			
ne follo	owing s	startu	ip sci	reen,	press	5				
	Terminal E	E2R Fuidenc	ja basic co	ofiguration						
	Welcom	ne to the	Terminal	EZR EWIG	iencia start	UD WIZAN	2			
	Conect pro	xaram configur	Terminal aton not exists	or conspted.			-			
	Conect pro This wizard	ogram configue I helps you co	ation not exists ofique basic ir	or compted.		erminal E2R 8	-			
	Conect pro This wizard	ogram configue I helps you co	ation not exists ofique basic ir	or compted.	spesary to shart T	erminal E2R 8	-			
	Conect pro This wizard	ogram configue I helps you co	ation not exists ofique basic ir	or compted.	spesary to shart T	erminal E2R 8	-			
	Conect pro This wizard	ogram configue I helps you co	ation not exists ofique basic ir	or compted.	spesary to shart T	erminal E2R 8	-			
	Conect pro This wizard	ogram configue I helps you co	ation not exists ofique basic ir	or compted.	spesary to shart T	erminal E2R 8	-			
	Conect pro This wizard	ogram configue I helps you co	ation not exists ofique basic ir	or compted.	spesary to shart T	erminal E2R 8	-			
	Conect pro This wizard	ogram configue I helps you co	ation not exists ofique basic ir	or compted.	spesary to shart T	erminal E2R 8	-			
	Conect pro This wizard	ogram configue I helps you co	ation not exists ofique basic ir	or compted.	spesary to shart T	erminal E2R 8	-			
	Conect pro This wizard	ogram configue I helps you co	ation not exists ofique basic in	or compted.	spesary to shart T	erminal E2R 8	-			

The next window allows you to enter server parameters and settings.

server	(local)\BAZARADWAG	
database		
	E2R.	
login		
	sa	
password		

Next > Cancel

Where:

Server	-	Name or IP of the server and SQL instance E2R SYSTEM works for instance BAZARADWAG	
Database	-	The name of the database, by default E2R	
Login	-	Login to the SQL database, by default sa	
Password	-	The password for the SQL database, by default radwag	
test connection	-	Button for checking the connection to the set parameters of the database.	

Window proper connection to the database.



Window indicating that the lack of connection to the database.



The window definition ID for terminal, which is unique in the case of terminal operation in the system E2R. Once fully configured, restart the program.





28.2. External configuration

In parallel with basic configurator that runs when the file is missing Config.e2r in the program folder. EwPue5Settings.exe program is available in the program folder.



In the configuration, get access to change the parameters stored in a config.e2r - number, weight and data on the SQL database.

Window settings SQL database.

Program Konfiguracija	
Baza danych Terminal	
Seawo	
(local) BAZARADWAG	
Baza darych	
E2R	
UserID .	
şa	
Hasto	
sease -	

Where:

Serwer	-	Name or IP of the server and SQL instance E2R SYSTEM works for instance
		BAZARADWAG
Baza danych	-	The name of the database, by default E2R
UserID	-	Login to the SQL database, by default sa
Hasło	-	The password for the SQL database, by
		default radwag

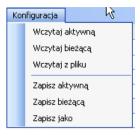
The settings window of the terminal.

là EwPueb Ustawienia	
Program Konfiguracja	
Baza darsch Terminal Terminal ID	
Terminal ID	
1	

Where:

Terminal ID	-	ID of another terminal in the database,
		you must have a unique number to the
		network at work.

Options for loading and saving configuration can be found in the Configuration menu.



Where:

Wczytaj aktywną	-	Load configuration from file Config.e2r
Wczytaj bieżącą	-	Load re-opened for the configuration of
		the (active) file
Wczytaj z pliku	-	Load configuration from the selected file
Zapisz aktywną	-	Writing configuration settings to a file
		Config.e2r
Zapisz bieżącą	-	Writing configuration settings to the
		opened for the (active) file
Zapisz jako	-	Writing configuration settings to the
		selected file

Terminal E2R Records is working on the active configuration file Config.e2r. Created configuration files with the extension *. e2r may be downloaded and saved as the active configuration.

29. WEIGHING PARAMETRES SETTING

User can change basic weighing setting using Weighing Server program.

29.1. Weighing Server program starting

Start scale software as instructed in point 27.1 or proceeding as follows:

- Press the START button on the bottom taskbar,
- press Programs,
- press RADWAG,
- press Weighing Server, click it

Window program Weighing Server will be open:

	ATA +0+	0.0	000 kg
	→T +	►O← UNI	TS And
Name	Value	-	Read Write
٢.		, [WS v1.1.3 Close

29.2. List of software menu

Hold finger for about 2 s on scale software window, menu list of accessible software will be displayed:

Parameters
Setup
Close

29.3. Parameters of scale software

29.3.1. Readout of parameters

To read out scale parameters press: **Read and**, scale software will indicate parameters list accessible for edition:

	515 →T+ →0+	0.000 kg
Name Autozero On Filter Median Filter	Value Yes Average Yes	Read Witte
¥	*	WS v1 1.3 Close

29.3.2. Save changes procedure

After having changed the parameters, save the values by pressing:

. When saving procedure is finished scale software will display message:



29.4. Setting a filtering level

Procedure:

- Readout parameters according to point 29.3.1 of the manual,
- Press and rewind *Filter* parameter value window.

		0.000 kg
	→T+ →0+	
Name Autozero On Filter	Value Yes Average v	Read
Median Filter	None Very Fast Fast	
	Average Slow	
		WS v1.1.3
8		Close

After selecting required parameter value save changes according to point 29.3.2 of the manual.

Notice:

The higher filtering level the longer scale stabilization time.

29.5. Median filter

This filter eliminates short pulse disturbances (for example: mechanical shocks).

Procedure:

- Readout parameters value according to point 29.3.1 of the manual,
- Press and then rewind "Median Filter" parameter value window.

	112 +0+		0.000 kg
	+T+	→ 0 ←	
Name Autozero On Filter Median Filter	Value Yes Average Yes No Yes	×	Read Write
¢		الا ا	WS v1.1.3 Close

After selecting the required value save changes according to 29.3.2 of the manual.

29.6. Autozero function

The autozero function has been introduced in order to assure precise scale's indications. This function controls and corrects **"0**" indication. While the function is active it compares the results successively with constant frequency. If results differ less than the declared value of autozero range, for example 1unit, the scale will be automatically zeroed and the stability result markers — and zero indicator $\mathbf{0} \leftarrow$ will be displayed. When AUTOZERO function is active, each measurement starts with precise zero. In particular cases the function can disturb measuring process. For example when product is loaded very slowly on scale pan (pouring), **Autozero** system can influence real weighing results.

Procedure:

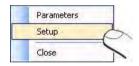
- Readout parameters value according to 29.3.1 of the manual,
- Press, then rewind Autozero parameter window.

	^{≧1} ² →0- 0.(+T+ →0+ UNI	000 kg
Name Autozero On Filter Median Filter	Value Yes No Yes	Read Wite
		WS v1 13

After selecting the required parameter value save changes according to 29.3.2 of the manual.

29.7.Scale software settings

After starting program menu list (see point 29.2 of manual) press with finger option **<Settings>**:



Scale software will display settings window:

etup		
Serial Port	COM2	(9)
Language	English	*
Software K	eyboard	
	ancel OK	

Accept change of parameters value with key:

Notice:

Additional weighing platform module MW02 is working on port COM2.

Languages available:

- Auto Setting language version compatible with the version of the operating system.
- Polish
- English
- German

Set the address track to the software keyboard on: C:\Program Files\screen keyboard\KEYBOARD_mini.exe

29.8. Closing WeighingServer program

In order to exit the program press the button: ______ on the main window.

30. ERROR MESSAGES

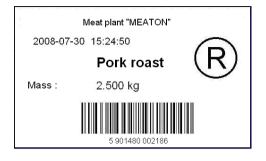
Err2	- Value beyond zero range
Err3	- Value beyond tare range
Err8	- Exceeded time of tarring / zeroing operation
null	- Converter zero value
FULL	- Measurement range exceeding
LH	 Initial mass error, indication beyond (from -5% to +15% range of initial mass)

31. LABEL DESIGNING

Computer program **EDYTOR ETYKIET R01** is used for label patterns making. First a label pattern is saved as a file with "**Ib**" extension, then it is set in Terminal E2R Ewidencja program.

Example:

Setting in a scale a pattern adequate for the following label:



31.1. Label pattern making

Procedure:

- 1. Start **EDYTOR ETYKIET R01** computer program as instructed in point 29.3.2. or operational system according to the following description:
- press START on the bottom task bar
- indicate Programs option,
- choose RADWAG option,
- choose Edytor Etykiet R01,
- click Edytor Etykiet R01 symbol.
- 2. While starting, the following window will appear:



OK

3. Choose type of printer connected with scale, press: then the main program's window will be displayed

💾 Ed	vtor	etv	ciet	RO	11 v	1.1	.2	ĩNo	о па	me	1 - 0		ZEN													
		Add																								
	3		8	1		Ð	e	۹.	100	%			•			\odot	0		P							F
A		0		1.		. [`	1		1.		. 1	2		ı.,		.	3				4			Id	Name	Details
01214	0 _																									
_	-																									
	-																									
	-			÷																						
· .	1 -			•	•	·		-				÷	•													
14	-	÷	1		Ċ	÷						Ċ	Ċ	Ċ												
	-	÷		÷	÷	÷		÷		÷		÷.	÷		÷	÷.										
	Ξ																									
	2 -																									
	_		1	÷	•	•			•			÷	•													
	Ξ	÷	÷.	÷	÷	÷	÷.	Ċ		Ċ	÷	÷.	Ċ.	÷	Ċ	,										
	3 -																									
	-																						<			>
	-			•		•																	È	-		
	-	1		-	*	•	-			•	-	*		-	1			-		•			1		1	* *
	4																							All ob	jects	•
*		E			Ī			ţ	÷	÷	1	¢	2													
Gotowy																					×:381	y: 309		N		

4. In order to add text to a label, click A on the left task bar, then following window will be displayed

Enter text	Σ
Text properties Oth	er options
Font type Font	System 2
Rotation	Normal Variable Add
Data source	Fixed O00 Mass in a basic unit of the active platform
Text	Meat Plant "MEATON"
	🗌 Inkrementacja
·	
	Ok Cancel Help

Æ

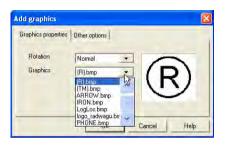
located in top right part of the

6. In **<Text>** space enter the text: Meat Plant "MEATON", accept with and place it on label using appropriate type size.

5. Start the keyboard pressing:

screen.

- 7. Click again on A and in the window "Enter text" insert {4}, and confirm by pressing and place the required variable in the right place on the label.
- 8. Place other constant texts and demanded variables on the label as instructed above
- 9. Click 🎽 and in "Load graphics" window rewind<Graphics> list:



10. Choose required <*.bmp>, accept with OK and put graphics in appropriate label place

Caution:

<*.bmp>located on label will be printed after the graphics have been sent to printer's memory. Description of data sending to printer can be found in Help/program options/Sending to printer lap in computer program's menu.

11. Click and rewind <Code Type> list in "Enter bar code" window, choosing < EAN-13>.

Add codebar	
Codebar properties	Other options
Cadabashina	
Codebar type	EAN13
Height Rotation	90 •
Data source	Normal
Data source	Fixed •
Codebar value	(52)
	Ok Cancel Help

- 12. Using keyboard enter variable in <Codebar value> space {52}.
- 13. Accept changes with and put a code in appropriate label place.
- 14. Save ready label pattern choosing <File>, then <Save as...> lab.
- 15. Set up a label in Terminal E2R Evidence application as instructed in point 27.3.2. of the manual.

Caution:

Saved label pattern with*.**Ib** extension is not editable file. Therefore additional label pattern recording with *.**lab** extension is recommended (program's menu: File/ Save as...) in order to enable future label pattern modification.

31.2. Inventory of variables:

The list of all variables accessible in the system for defining label patterns in program Terminal E2R Ewidencja from version **1.1.6.118**

Symbol	Description
{2}	Date
{3}	Time
{4}	Date and time
{6}	Net mass in the current unit
{7}	Net mass in calibration unit
{8}	Gross mass
{9}	Tare
{10}	Current unit
{11}	Calibration unit
{12}	Minimum threshold
{13}	Maximum threshold
{14}	Batch number
{25}	Hex
{26}	HexToUTF8
{27}	Net value
{30}	Gross value

{31}	Platform number
{35}	Counting pieced: unit mass in calibration unit
{48}	Product: Temperature
{49}	Product: Description
{50}	Product: Name
{51}	Product: Code
{52}	Product: EAN code
{53}	Product: Mass
{54}	Product: Tare
{55}	Product: Unit price
{56}	Product: Minimum
{57}	Product: Maximum
{59}	Product: No of validity days
{60}	Product: VAT
{62}	Product: Expiry date
{64}	Product: ingredients or any other additional information
{65}	Contractor: Name
{66}	Contractor: Code
{67}	Contractor: Tax ID
{68}	Contractor: Address
{69}	Contractor: Postal code
{70}	Contractor: City
{71}	Contractor: Discount
{75}	Operator: Name
{76}	Operator: Code
{77}	Operator: Authorization level
{80}	Package: Name
{81}	Package: Code
{82}	Package: Mass
{85}	Source warehouse: Name
{86}	Source warehouse: Code
{87}	Source warehouse: Description
{90}	Destination warehouse: Name
{91}	Destination warehouse: Code
{92}	Destination warehouse: Description
{300}	LOT 2
{301}	Entered Quantity

In counting pieces variable {6} "Net mass in present unit" presents the number of pieces {10} the current unit is "pcs".

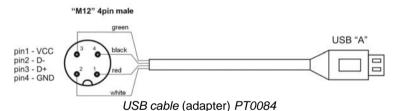
In case of variable $\{64\}$, each line (L1-Ln) is formatted according to the pattern: Line 1 – $\{64:L1\}$, Line 2 $\{64:L2\}$, etc.

32. DIAGRAMS OF CONNECTION CABLES

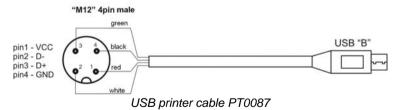
The scale in STANDARD version can cooperate with:

- computers
- slip printers KAFKA, EPSON, KYOLINE
- label printers CITIZEN, ZEBRA,

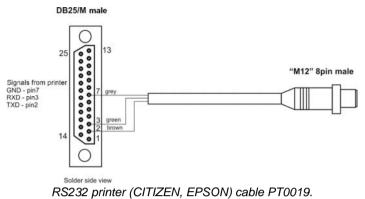
32.1. USB cable (adapter)



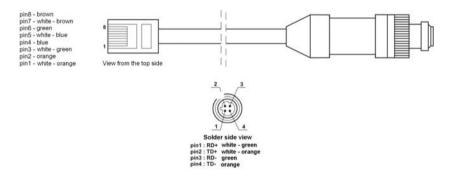
32.2. USB printer cable



32.3. RS232 printer cable

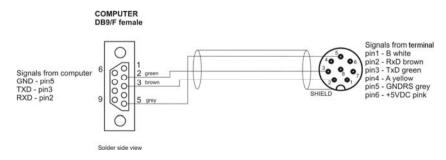


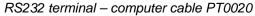
32.4. Ethernet cable



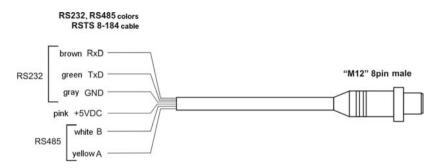
Ethernet cable P0198:

32.5. RS232 terminal - computer cable





32.6. RS232, RS485 cable - colours



Colours for "M12" standard cables. The figure gives an example of the type of cable.

"M12" 8pin male

RS232C signals and colors RSTS 8-184 cable brown RxD green TxD gray GND

32.7. RS232C cable - colours

Colours for "M12" standard cables. The figure gives an example of the type of cable.

33. CONNECTORS

red CTS pink DSR white DCD yellow DTR blue RTS

Caution:

Depending on the number of installed additional modules the number and location of glands and connectors can change. Standard option connectors and glands' location does not change.

33.1.RS232, RS485 connector





(plug in side view)

33.2. Ethernet connector

pin1 : RX+	0.01
pin2 : TX+	
pin3 : RX-	
pin4 : TX-	

(plug in side view)

33.3.USB connector

pin1 - VCC pin2 - D-	(°	6
pin3 - D+ pin4 - GND	è	ل

(plug in side view)

33.4. RS232C connector

pin1 - DCD	
pin2 - RxD	
pin3 - TxD	
pin4 - DTR	
pin5 - GND	
pin6 - DSR	
pin7 - RTS	
pin8 - CTS	



(plug in side view)

34. SPECIFICATION OF ADDITIONAL MODULES

Apart from standard interface, it is possible to equip terminals PUE 5 with additional module increasing functionality of devices:

- Weighing module MW-02
- 8 inputs / 8 outputs module WE 8,
- 4 inputs / 4 outputs module WE 4,
- Analogue output module of AN series,
- Interface Profibus **DP V1**.

34.1. Weighing module MW-02

The weighing module MW-02 is responsible for the whole process of weighing. It is supplied with factory parameters and scale parameters (filters, units, etc.) memory. It is installed in the main board of PUE 5. The module is supplied with factory parameters access button. The button is protected with a seal.

Factory parameters are protected and can be accessible only after pressing the calibration switch on the module during powering up. The module is totally covered by the shield together with the calibration switch and soldering pads of load cell.

The calibration switch is accessible through the hole in the shield and can be additionally sealed with an external sticker.



Weighing module MW-02

34.1.1. Module technical specification

Maximal number of convertor units	8 388 608
OIML class	
Number of verification units	6000e
Maximal signal gain	19mV
Maximal voltage per verification unit	3,3 µV
Minimal voltage per verification unit	1µV
Minimal strain gauge impedance	90Ω
Maximal strain gauge impedance	1200Ω
Strain gauge converter supply voltage	5V
Strain gauge converters connection	4 or 6 wires + shield

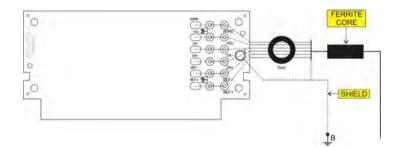
34.1.2. Weighing platform signal wires colours

Strain gauge sensor determiners	Colours according to the RADWAG standard	Weighing module determiners
+INPUT	brown	+5V
-INPUT	green	AGND
+OUTPUT	yellow	+IN
- OUTPUT	white	-IN
+SENSE	gray	+REF
- SENSE	pink	- REF
SCREEN	yellow-green	(according to the rule of connecting shields)

34.1.3. Weighing platform connecting

• 6-wire strain gauge sensor platform connection

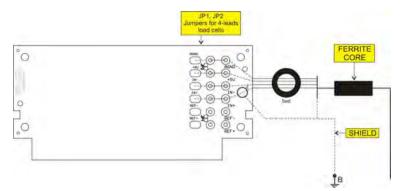
6-wire strain gauge sensor can be connected to weighing module board as instructed below:



WEIGHING MODULE SIGNAL	STRAIN GAUGE SENSOR SIGNAL	NOTICE
E	SCREEN	(according to the rule of connecting shields)
REF+	SENSE +	JP1 not soldered
REF-	SENSE -	JP2 not soldered
IN+	OUTPUT+	
IN-	OUTPUT-	
+5V	INPUT+	
AGND	INPUT-	

• 4-wire load cell cables

For 4-wire load cell cables look at the drawing below:



SIGNAL FROM WEIGHING MODULE	SIGNAL FROM TENSOMETER	NOTICE
E	EKRAN	(according to the rule of connecting shields)
REF+	-	(JP1 solder)
REF-	-	(JP2 solder)
IN+	OUTPUT+	
IN-	OUTPUT-	
+5V	INPUT+	
AGND	INPUT-	

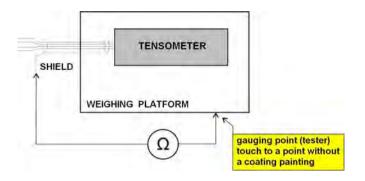
• Connection of strain gauge cable shield

	With connection between the shield and the load cell body (manufacturer feature)	Without connection between the shield and the load cell body (manufacturer feature)
The scale with housing or stainless connected with the platform via cable.	POINT B	POINT B
Compact mechanical construction of the scale (e.g. a scale with the indicator on the pillar)	POINT B	E

Point B – screwed terminal electrically connected to the housing E – soldering point on the main board

The way of checking connection between the shield and the tensometer body.

Use an ohmmeter for this purpose.

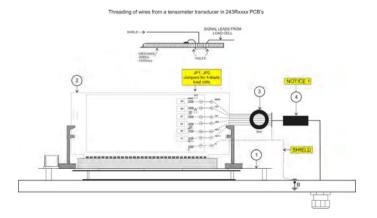


34.1.4. The way of installing inside PUE 5

Module is designated for assembly inside terminal PUE5. Module with **address 1** is assembled to main board of terminal to **J13(Slot 0)**, module with **address 2** is assembled to connector **J11 (Slot 1)**. For the second module **MW-02** gland is installed on casing lid, 3m cable ended with insulated conductors is led through gland.

Installing procedure:

- 1. Unplug the terminal (remove the plug from socket 230V);
- 2. Unscrew the casing lid (back part of terminal casing);
- 3. Install the module in connector J13 or J11 on main board, depending on it's address;



Installation of the module MW-02 on the motherboard terminal PUE 5

Pcs.	Component name
1	Motherboard
2	Weighing module
3	Round ferrite core
4	Ferrite core

4. While installing the module in the plastic socket on the main board turn you attention to the position of the module (see the figure below),



- 5. The strain gauge cable led through additional gland PG7 situated on the back wall next to the gland of the main platform cable;
- 6. Pull a ferrite core on the cable (appropriate internal diameter);
- 7. Wind wires of the cable on the round ferrite core (5 coils);
- 8. The wires solder accordingly to pads on the PCB. **USE A SOLDERING IRON (not a solder gun with a transformer)**;
- Connect cable IN/OUT to group of conductors (undo band clips fastening group of conductors, lay the cable and clamp band clips – multiple use band clips);
- 10.Assembly cover of indicator casing.

34.2. Additional 8 inputs / 8 outputs module



8 inputs / 8 outputs PCB - WE 8

This module can be connected inside the weighing terminal. Its task is to expand the functionality of terminal for 8 inputs and 8 outputs freely configurable.

34.2.1. Technical specification

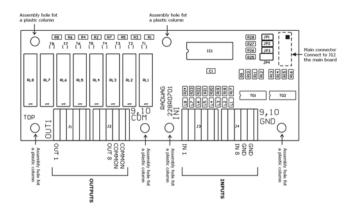
Parameters of outputs	
Quantity of outputs	8
Type of outputs	Reed operation contacts
Wire diameter	0,14 - 0,5mm ²
Maximal load-current contact capacity	0,2A DC
Maximal forward voltage	50V DC
Parameters of inputs	
Quantity of inputs	8
Input type	Optoinsulated
Wire diameter	0,14 – 0,5mm ²
Control voltage range	5 -24V DC

34.2.2. Installing method in PUE 5 terminal

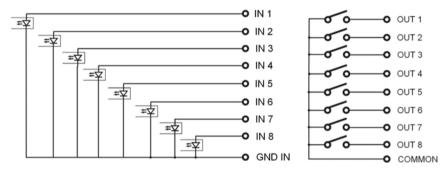
Module is designated for assembly inside terminal PUE5. Module is assembled to main board of terminal to 10-pin **J22** connector. For module **WE8** gland is installed on casing lid, 3m cable ended with insulated conductors is led through gland.

Installing procedure:

- 1. Unplug the terminal (remove the plug from socket 230V);
- 2. Unscrew the casing lid (back part of terminal casing);
- 3. Install the module in connector J22 on main board;
- 4. While installing module pay attention to plastic posts fastening to main board. They should be placed in assembly holes in main board and in assembly holes in module WE 8,
- In one of free glands remove the stopper and led through it cable IN/OUT (if necessary use bigger gland depending on cable diameter);
- Connect the cable IN/OUT to joint J1, J2 for outputs and J3, J4 for inputs on module 8IN/8OUT according to description given in table;
- Connect cable IN/OUT to group of conductors (undo band clips fastening group of conductors, lay the cable and clamp band clips – multiple use band clips);
- 8. Assembly cover of indicator casing.



34.2.3. I/O diagram



WE8 inputs diagram

WE8 outputs diagram

34.2.4. Description of input output wires PT0082:

SIGNAL	LEADS NUMBER (FOR JZ-500 18G0,5)
IN 1	1
IN 2	2
IN 3	3
IN 4	4
IN 5	5
IN 6	6
IN 7	7
IN 8	8

GND IN	9
OUT 1	10
OUT 2	11
OUT 3	12
OUT 4	13
OUT 5	14
OUT 6	15
OUT 7	16
OUT 8	17
COMMON	(18) YELLOW GREEN

34.3. WE 4 - 4 inputs / 4 outputs module

WE 4 module comprises 4 optoinsulated inputs and 4 optoinsulated outputs of reed relays, does not require installing additional modules on the main board of the terminal. The input / output wires are led out via a gland on the back wall of the housing (3m length).

34.3.1. Technical specification

Parameters of outputs		
Quantity of outputs	4	
Type of outputs	Reed operation contacts	
Wire diameter	0,14 - 0,5mm ²	
Maximal load-current contact capacity	0,2A DC	
Maximal forward voltage	50V DC	
Parameters of inputs		
Quantity of inputs	4	
Input type	Optoinsulated	
Wire diameter	0,14 – 0,5mm ²	
Control voltage range	5 -24V DC	

34.3.2. Colours of cables for I/O PT0083:

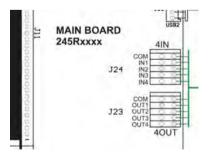
SIGNAL	LEADS NUMBER (FOR JZ-500 108G0,5)
IN 1	1
IN 2	2
IN 3	3
IN 4	4
GND IN	5
OUT 1	6
OUT 2	7
OUT 3	8
OUT 4	9
COMMON	(10) YELLOW GREEN

34.3.3. Installing method in PUE 5 terminal

WE 4 modules are equipped in one cable, for inputs and outputs.

Installing procedure:

- 1. Unplug the terminal from mains;
- 2. Unscrew and take off the back wall of the housing;
- 3. Install a PG9 gland and led cable PT0083 through it;
- 4. Connect the **PT0083** cable to the **J24** connector for inputs or to the **J23** for outputs, on the main board of PUE 5.
- The cable connect to the group of wires (unhook band clips fastening the group of wires, lay the cable and hook the band clips). Band clips of multiple usage;
- 6. Screw down the back wall.



Installing WE4 modules on the main board of PUE 5

34.4. Analogue output module AN series



Module of analogue outputs

Module accessible in three configurations:

- Voltage output AN 0-10V
- Current output AN 4-20mA
- Current output AN 0-20mA

34.4.1. Technical specification

Work modes	4 - 20mA , 0 - 20mA, 0 - 10V
Resolution	16 bit
Current output resistance	<500
Voltage output resistance	>400
Power supply	24V DC (12 - 30V DC) max 40mA

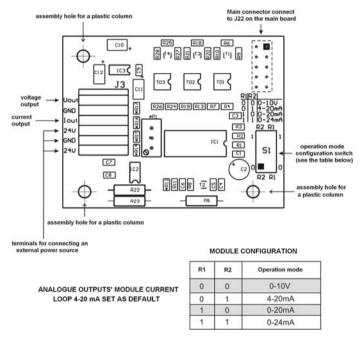
34.4.2. The way of installing inside PUE 5

These modules are intended to mount inside PUE 5. They need to be connected to the 10-pin J22 connector. For all configurations of AN, there is a gland installed on the back wall of the housing. A 3-meter shielded cables are led out via the gland. Wires should be free from insulation.

Installing procedure:

- 1. Unplug the terminal from mains;
- 2. Unscrew and take off the back wall of the housing;
- 3. Install your module in J22 on the main board;

- 4. During installation turn your attention to plastic columns. They should be placed one side in mounting holes in the main board and the other side in the mounted module;
- 5. Led the PT0015 cable through one of the free glands;
- Connect the PT0015 cable to J3 on the analogue module according to the description below;
- 7. Connect the PT0015 cable shield to the housing (screwed terminator, 4mm diameter);
- The cable connect to the group of wires (unhook band clips fastening the group of wires, lay the cable and hook the band clips). Band clips of multiple usage;
- 9. Screw down the back wall.



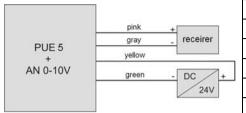
Mounting of AN module on the main board of PUE 5

34.4.3. Configuration of work modes of analogue modules

A work mode of analogue modules can be set using **S1** switch according to the drawings above (table *"configuration of analogue modules"*). Near the **S1** switch on the PCB you can find a description

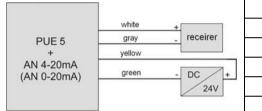
34.4.4. Connections to AN module

Drawing of connections of voltage output:



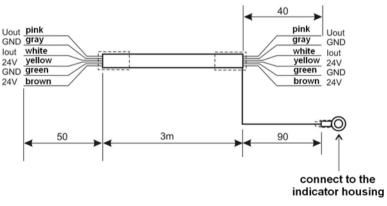
COLOURS OF WIRES		
Colour	Signal	
Pink	U _{оит} +	
Gray	GND	
Yellow	+24V DC	
Green	GND	

Drawing of connections of current loop:



COLOURS OF WIRES		
Colour	Signal	
White	l _{оит} +	
Gray	GND	
Yellow	+24V DC	
Green	GND	

PT0015 Analogue outputs' cable



Cable for analogue output

34.5. Profibus interface DP V1



Profibus Plug-In Module

PUE5 weighing terminals can be optionally equipped in Profibus Plug-In Modules of DPV1 standard with connectivity via the uniform **Anybus-CompactCom**. A detailed description of the interface is in a separate manual Profibus PUE5.

34.5.1. Technical specification

Size	52mm x 50mm x 22mm
Power Supply	3,3 V DC
Temperature	-10 do +40°C
BUS Baud Rate	Auto Baud Rate
I/O Input	244 bytes(Max 368 bytes IN+OUT)
I/O Output	244 bytes (Max 368 bytes IN+OUT)
Appl Interface	serial
Internal baud rates	19.2; 57.6; 115.2; 625 kbps (internal
Internal badd fates	DIP SWITCH)
Baud Rate Error	±1.5%

34.5.2. Colours of wires

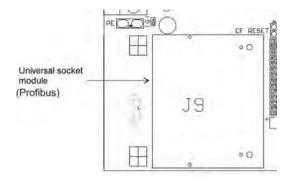
А	Green
В	Red

34.5.3. The way of installing inside PUE 5

These modules are intended to mount inside PUE 5. They need to be connected to the **J9**. There is a gland installed on the back wall of the housing. A 3-meter shielded cables are led via the gland. Remove insulation from wires.

Installing procedure:

- 1. Unplug the terminal from mains;
- 2. Unscrew and take off the back wall of the housing;
- 3. Install your module in **J9** on the main board;



- 4. Screw down the interface using 2 screws;
- 5. Set the DIP-SWITCH DP1 (RS485 CF MODULES) in position OFF,

	OF	ON	1	
POLARIZATION	0			
TERMINATOR	0	й	0	
POLARIZATION	0	믺	0	
RS485 ON CF MODULES OFI			0	

Switch settings **DP1**:

1 – ON



6. Set **SW1** to 115,2 kbs.,

SPEED	OM2	OM1	OMO	SW1
19,2kbps	OFF	OFF	ON	■ OM2 0
57,6kbps	OFF	ON	OFF	○ OM1 ○
115,2kbps	OFF	ON	ON	o OMO o
625kbps	ON	OFF	OFF	ON OFF

Switch settings SW1:

- 1 ON 2 – ON
- 3 OFF



- 7. Connect socket SUB-D with a cable,
- 8. Remove the hole plug from one of the free glands and led the cable through;
- The cable connect to the group of wires (unhook band clips fastening the group of wires, lay the cable and hook the band clips). Band clips of multiple usage;
- 10. Screw down the back wall.
- 11. Set in the MS Windows Device manager, USB serial port on COM4

35. ADDITIONAL EQUIPMENT

Additional weighing platform module	-	Metrological parameters as for main platform
In / out module	-	Additional 8 in / out

Profibus DP V1 interface

- Slave working mode

36. TECHNICAL PARAMETERS

Technical data:	TMX/E 1,5/3/H1	TMX/E 3/6/H1	
Maximal capacity	1,5/3 kg	3/6 kg	
Minimal load	10 g	20 g	
Readability	0,5/1 g	1/2 g	
Tare range	-3 kg	-6 kg	
Pan size	150×200 mm		
Working temperature	0° - +40° C		
Output signal	2 × USB (load carrying capacity 500mA), RS 232C, RS 485, Ethernet, 4 inputs, 4 outputs		
IP rating	IP67 indicator		
Power supply	85-265 VAC 50-60Hz		
Power consumption	45W		
Display	LCD 12,1" (800x600) infrared controled panel		
Net weight / Gross weight	12,5/14,5 kg		
Package dimensions	indicator 470x350x250 mm platform 520x260x290 mm		

Technical data:	TMX/E 1,5/3/H2	TMX/E 3/6/H2	TMX/E 6/15/H2	TMX/E 15/30/H2
Maximal capacity	1,5/3 kg	3/6 kg	6/15 kg	15/30 kg
Minimal load	10 g	20 g	40 g	100 g
Readability	0,5/1 g	1/2 g	2/5 g	5/10 g
Tare range	-3 kg	-6 kg	-15 kg	-30 kg
Pan size	250×300 mm			
Working temperature	0° - +40° C			
Output signal	2 × USB (load carrying capacity 500mA), RS 232C, RS 485, Ethernet, 4 inputs, 4 outputs			
IP rating	IP67 indicator			
Power supply	85-265 VAC 50-60Hz			
Power consumption	45W			
Display	LCD 12,1" (800x600) infrared controled panel			
Net weight / Gross weight	14,5/16,5 kg			
Package dimensions	indicator 470×350×250 mm platform 580×320×360 mm			

37. APPENDIX A – SETTING A BARCODE SCANNER

- RADWAG scales use RS232 interface with transmission in one direction to communicate with a barcode scanner. It requires only two wire connection. So barcode scanners needs to be equipped with RS232 with disabled hardware and software flow control.
- 2. Both the terminal and a scanner can have transmission parameters set. Both devices should have set the same parameters: baud rate, data bits, parity control, number of stop bits. e.g. 9600,8,N,1 baud rate 9600 bit/s , 8 data bits, no parity control, 1 stop bit. By default in PUE5 barcode scanner needs to be connected to COM3 with baud rate 9600 bit/s.
- 3. Barcode scanners can send additional information apart from a barcode e.g. barcode symbology. As RADWAG devices do not use this information it is advisable to disable it.
- 4. Some RADWAG systems can omitted some inessential information in the code by setting parameters outlining the beginning and length of the analyzed code.
- 5. In order to have a barcode read by PUE5 it is required to program an appropriate prefix and suffix. The prefix is (1 byte) 01 hexadecimally and the suffix is (1 byte) 0D hexadecimally.
- 6. Different barcode scanners allow to disable/enable reading different barcode symbologies.
- 7. Barcode scanners can be programmed by reading different programming codes present in their programming manuals.
- 8. Barcode scanners bought together with RADWAG systems are properly configured and tested.

Barcode coded hexadecimally with prefix and suffix	Barcode in ASCII code (omitted control characters)	Symbology
01 30 30 32 31 30 31 32 36 0D	00210126	EAN-8
01 30 31 32 33 34 35 36 37 38 39 0D	0123456789	2 of 5
01 43 4F 44 45 20 33 39 20 54 45 53 54 0D	CODE 39 TEST	CODE 39
01 31 31 30 31 32 33 34 35 36 37 38 39 31 0D	1101234567891	EAN-13
01 43 6F 64 65 20 31 32 38 20 54 65 73 74 0D	CODE 128 Test	CODE 128

PRODUCENT WAG ELEKTRONICZNYCH



RADWAG WAGI ELEKTRONICZNE 26 – 600 Radom, Bracka Street 28

Main line tel. +48 48 38 48 800, tel./fax. + 48 48 385 00 10 Selling department + 48 48 366 80 06 www.radwag.pl

