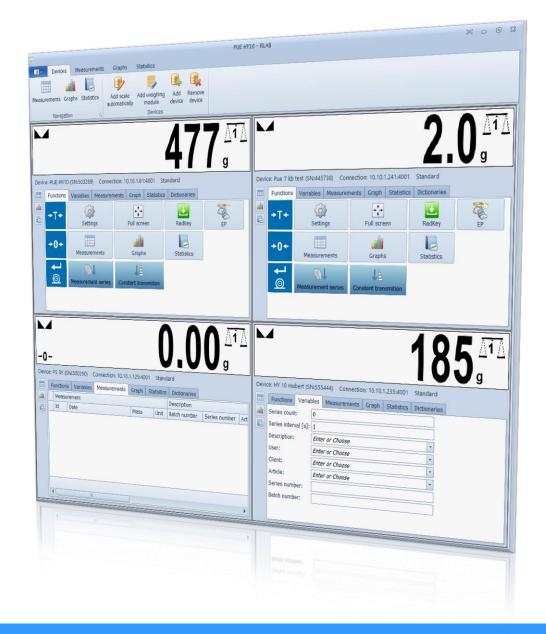




### **R-Lab** General information

R-Lab is an up-to-date program offering aquisition of measurements sent from RADWAG-manufactured balances, their presentation and statistical analysis. The program allows reports and graphs generating and customization.





# Compatibility

With weighing devices

LABORATORY balances INDUSTRIAL scales WEIGHING MODULES

R-Lab is compatible with all models of RADWAGmanufactured balances and scales.





## **Measurement record**

#### **Manual and automatic**

Manual record is carried out upon pressing print/enter key.



Automatic record is done for a series of measurements (measurements quantity and time interval are specified).



2         2         24         2016.10.11         12:55:22.191         4:39         g         Testing         001         0.1         Test.         Test.         Oper.         PU         PU           25         25         2016.10.11         12:55:24.213         4:39         g         Testing         001         0.1         Test.         Test.         Oper         PU         PU           26         26         2016.10.11         12:55:36         219         4:39         G         Testing         001         0.1         Test         Test         Oper         PU         PU         PU           27         27         2016.10.11         12:55:40.187         4:39         G         Testing         001         0.1         Test         Test         Oper         PU         PU <th>Mo Seri</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>liters</th> <th></th> <th></th> <th>Statistics Measurements to:</th> <th>Graphs !</th> <th></th>	Mo Seri							liters			Statistics Measurements to:	Graphs !	
12         13         Date         Mass         Unit         Description         Sett.         Sett.         Alle         Clear         User         Name         Mo.s           24         24         24         2016.10.11 12:53:21.91         439         0         Testing         001         0.1         Test.         Feet.	Mo Seri							Find Clear		1			
10         10	Mo Seri							Description				ement	
1         1			User	Client	Article	Seri	Batc	Description	Unit	Mass	Date	Id	Id
25         25         25         26.51.0.11         25.32.34         21.33         43.94         Testing         00.1         01         Test.         Test.         Oper         PU	PU 503												
25       55       5016.10.11       12:55:34:213       (39:9)       Testing       001       01       Testin,       011       13	PU 503				Test	01	001	Testing	g	439	2016.10.11 12:53:32 .191	24	24
26       26       2016.10.11       1253.26       219       439       0       Testing       001       01       Test.       Oper       PU       PU       PU         27       27       2016.10.11       1253.36       221       439       6       Testing       001       01       Test.       Test.       Oper       PU								Testing	a	439	2016.10.11 12:53:34 .213	5 25	25
27       27       204:01.01       12:53:38       221       439       G       Testing       001       01       Test       Test       Oper       PU	PU 503	PU	Oper	Test	Test	01		Testing	-		2016.10.11 12:53:36 .219	5 26	2
28       28       2016.10.11 12:55:40.197       43.9 g       Testing       001       01       Test       Test       Oper       PU	PU 503	PU	Oper	Test	Test	01	001	-					2
28       29       2016.10.11 12/5574.188       439 g       Testing       0.01       0.1       Test       Test       Oper       PU	PU 503	PU	Oper	Test	Test	01	001						2
30       30       2015,10,11       12:57:51,20       199 g       Testing       01       01       01       Test.       Test.       Oper.       PU.       PU.       PU.         31       31       2016,10,11       12:57:53,203       200 g       Testing       011       01       Test.       Test.       Test.       Oper.       PU.			Oper	Test	Test	01	001						2
31       31       2016.10.11       12:57:53.203       200       g       Testing       011       01       Test       Test       Qper       PU						01	001	Testing	9	439			3
36       35       206       g       Testing       01       1       Testin,       Testin, <td< td=""><td>PU 503</td><td></td><td></td><td></td><td></td><td>01</td><td>001</td><td>Testing</td><td>g</td><td>199</td><td></td><td></td><td>3</td></td<>	PU 503					01	001	Testing	g	199			3
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36     39     2016.10.11     152.2159.615     382     g     Testing     Testin.     Test     Test     Oper     PU     S       39     39     2016.10.11     152.2159.615     382     g     Testing     Test     Test     Test     Oper     PU     S       39     39     2016.10.11     152.420.330     504     G     Testing     Test     Test     Test     Oper     PU     S       40     40     2016.10.11     152.420.330     504     G     Testing     Test     Test     Test     Oper     PU     PU     S       41     41     2016.10.11     152.420.330     504     G     Testing     Test     Test     Oper     PU     PU     S	PU 503							Testing	g	382			-
30     39     2054.01.11     15/21:53.6.15     382 g     Testing     Test     Oper     PU	PU 503							Testing	g	382			-
39         2016.10.11         15.24:19.385         504 g         Testing         Testin.         Testin.         Oper         PU	PU 503	PU ;	Oper	Test	Test			Testing	g	382			-
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	PU 503	PU F	Oper	est							016.10.11 00:00:00 .000' ~	ar6] > ,5(	Device
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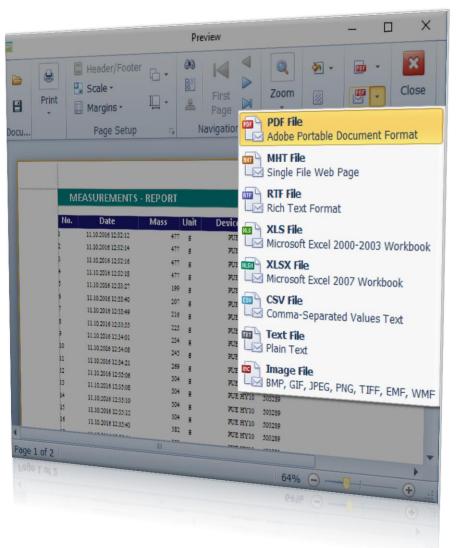


### **Balance data readout**

#### **Export of data to file**

R-Lab software enables export of balance data to a computer. It supports the following file formats:

- PDF
- MHT (Web)
- RTF
- XLS (Excel 2000 2003)
- XLSX (Excel 2007)
- **CSV** (Comma-separated values)
- Text or graphic file formats





## **Data visualization**

# Measurements presented in a graphic form

- Measurements graph with statistics data
- Gaussian distribution function and bar graph
- Stability graph difference between successive measurements
- All in one graph





# **Statistics**

## Statistical analysis of measurement data

- Measurements quantity
- Minimum value
- Maximum value
- Mean value
- Median
- Deviation: average, standard
- Variance
- Variance and deviation estimator
- Total weight

	PUE HY10 - RLAB	(0)	0	23
Devices Me	asurements Graphs Statistics		 	
Devices Measurements Navigation	Graphs Clear Statistics filters - report Filters Reports Filters			
Measurements count:	31			
Minimum value:	199			
Maximum value:	570			
Average value:	369,677419355			
Median:	382			
Average deviation :	102,955254943			
Standard deviation:	116,449182353			
Square deviation:	13560,41207076			
Variance:	13560,41207076			
Estimated variance:	14012,425806452			
Estimated deviation:	118,374092632			
Sum of measurements:	11460			
Devices: all Fill DGA[CG2: 9]  H	ter - details: [Date] > '2016.10.11 00:00:00 .000' eL - qetails: [Date] > ,5016'10'11 00:00:00 '000,			
				1110



### Reports

### For particular measurement series

- Filtering current measurements by date, mass, unit, desription, etc.,
- Display of date-specified measurements,
- Session-based measurement reports,
- Filtering measurements by list of devices

			Preview			- 0	
Print	Header/Footer	Size •	Find Thumbnails Bookmarks	Previous Page     Previous Page     Previous Page     Prist     Page     Last Page Navigation	Zoom	Close	
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	111020412235           1110204123235           1110204123235	Mass         Unit           477         8           477         8           477         8           199         8           207         8           208         8           204         8           205         8           206         8           304         8           304         8           302         8           303         8           304         2           302         8           303         8           304         2           305         8           306         8           307         8           308         9	Device         \$11           700 HY1         5032           700 HY1         5032		tion		
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1 of 2							
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## Auto search

Function designed to detect LAN-operating weighing devices. List of detected balances is displayed, the operator can select models that are to be used.

		IP Address	TCP Port	Model	Serial number	Name	
		10.10.1.130	4001	PUE 7.1	516158	PUE 7.1	
		10.10.1.105	4001	WLY	112233	WLY	
V		10.10.1.81	4001	PUE HY10	503289	PUE HY10	
	F	10.10.1.219	4001	WPY	454789200	WPY	
	E	10.10.1.211	4001	Pue 7 kb test	445738	Pue 7 kb test	
		10.10.1.22	4001	Pue 7	123456	Pue 7	
		10.10.1.241	4001	Pue 7 kb test	445738	Pue 7 kb test	
					<	Back Next >	Cance



## **Data acquisition**

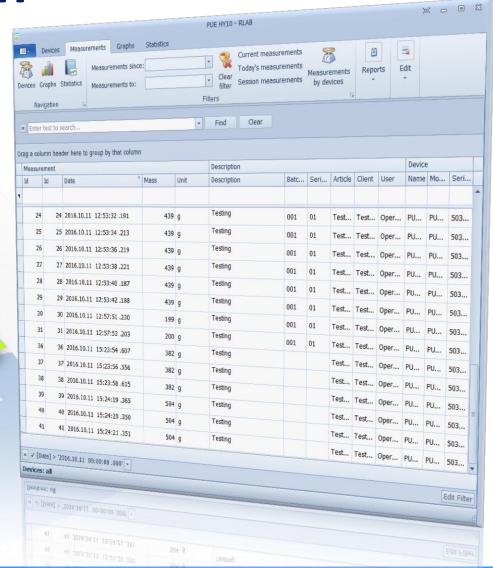
#### **Balance-computer transfer**

0

Smith

0:00:20

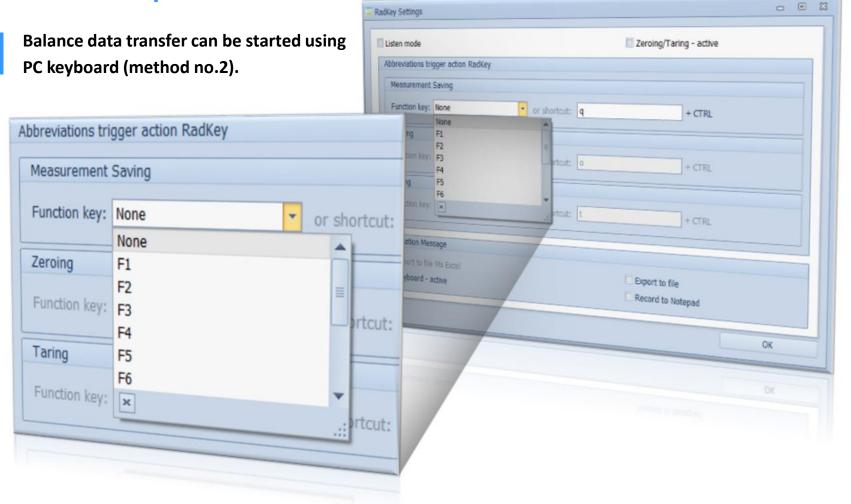
Acquisition of data from balance to a computer is performed by means of record on a balance.





# Data acquisition

#### **Balance-computer transfer**

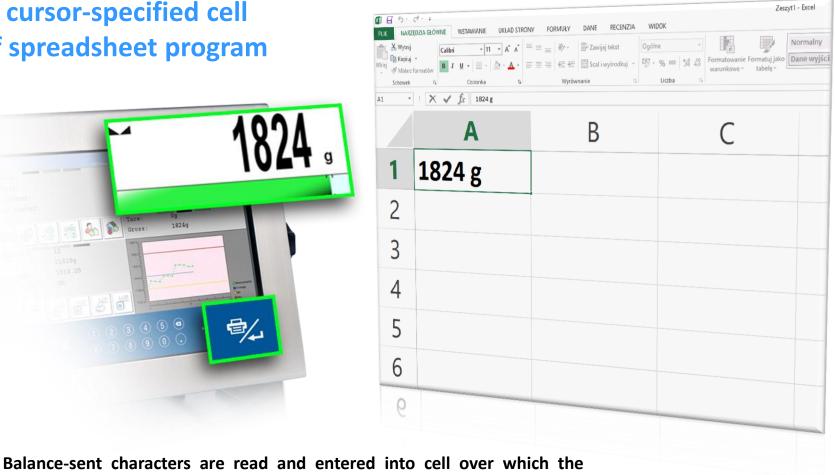




## **Balance indication**

### in cursor-specified cell of spreadsheet program





cursor is placed.





### Thank you for your attention

www.radwag.com