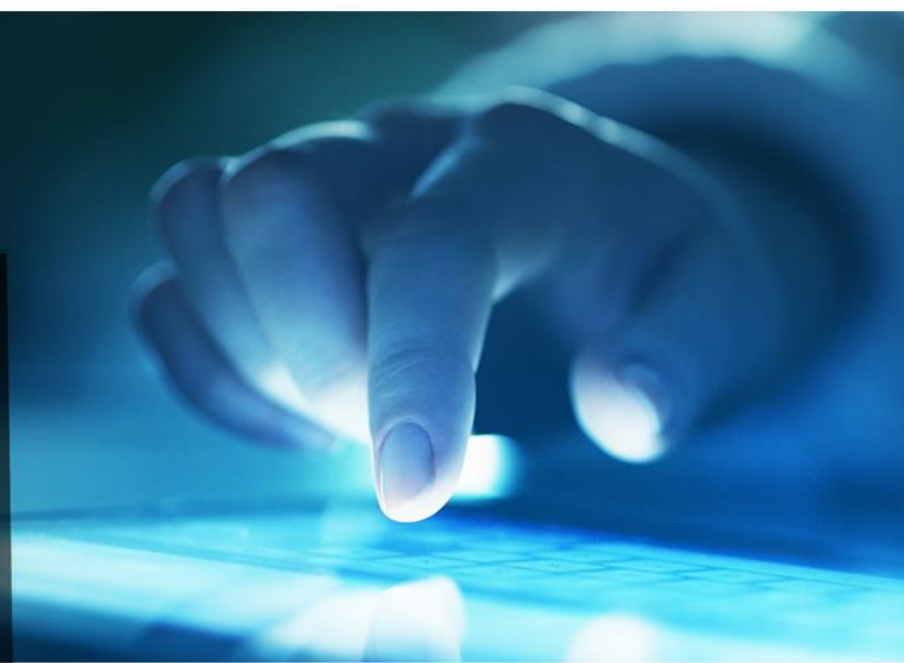




RADWAG BALANCES AND SCALES

ADVANCED WEIGHING TECHNOLOGIES



R-Lab

Functions and possibilities

R-Lab

General information

R-Lab is an up-to-date program offering acquisition 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 RADWAG-manufactured balances and scales.

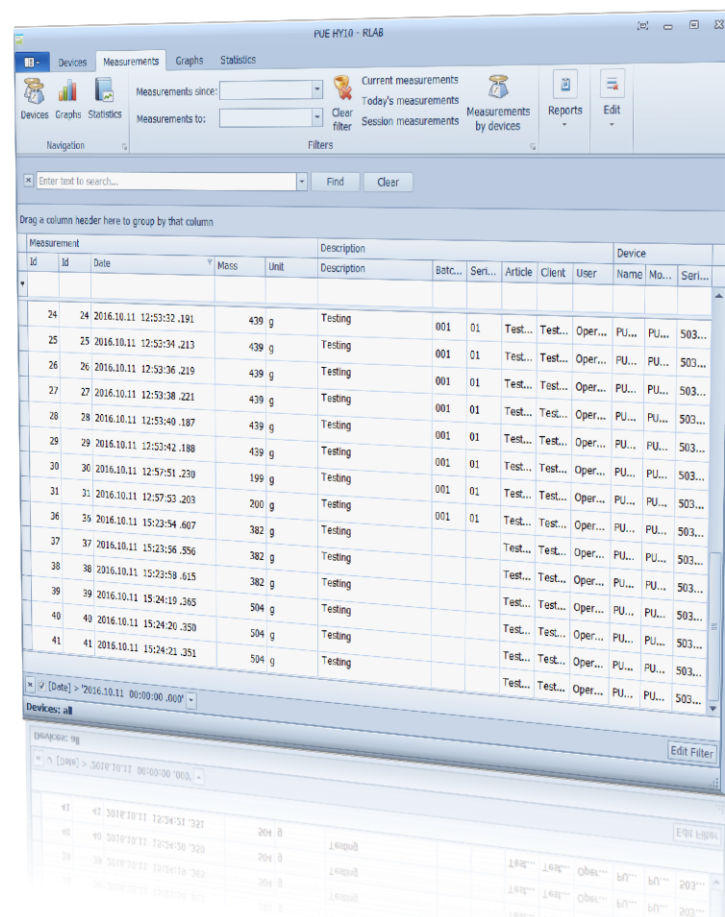
Measurement record

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).

The screenshot shows the RADWAG software interface with a table of measurement records. The table has columns for Measurement ID, Date, Mass, Unit, Description, Bot..., Seri..., Article, Client, User, Name, Mo..., and Seri... The data rows show a series of measurements from 24 to 41, all with a mass of 439 g or 504 g, and a description of 'Testing'.

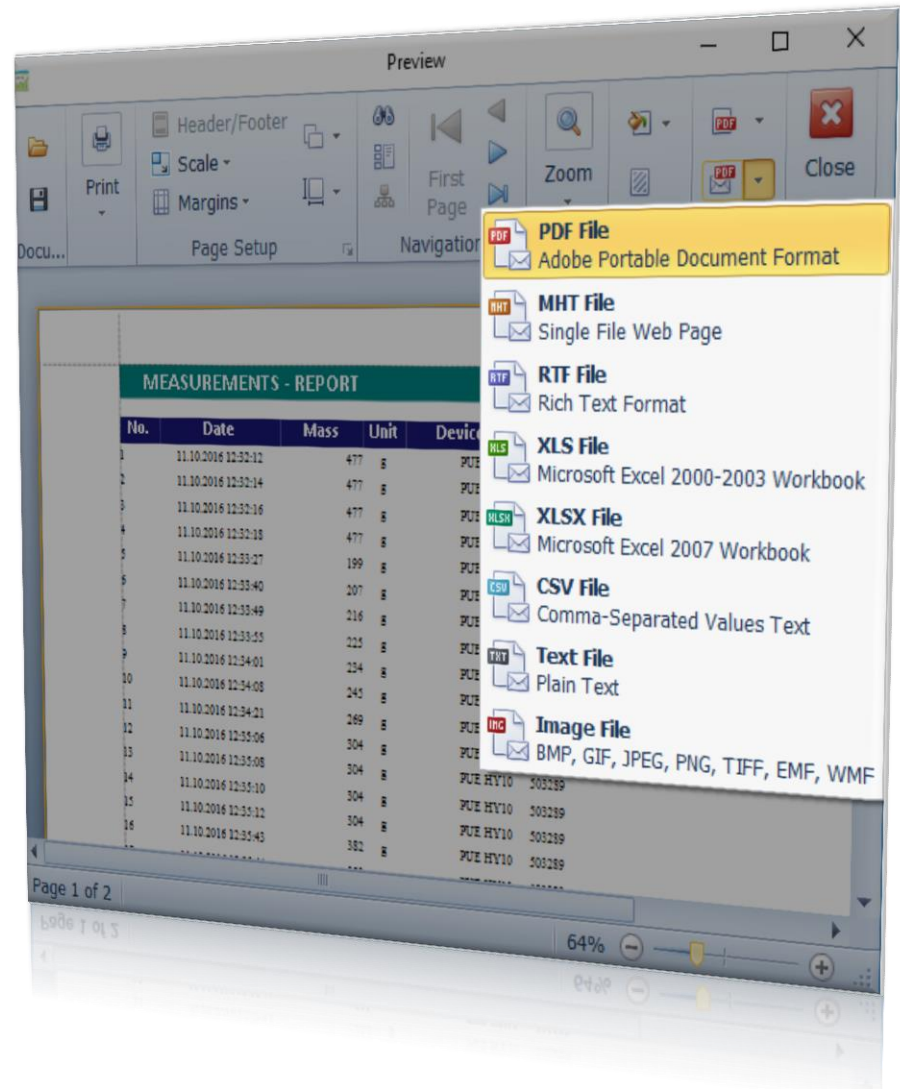
Measurement ID	Date	Mass	Unit	Description	Bot...	Seri...	Article	Client	User	Name	Mo...	Seri...
24	2016.10.11 12:53:32	191	439 g	Testing	001	01	Test...	Test...	Oper...	PU...	PU...	503...
25	2016.10.11 12:53:34	213	439 g	Testing	001	01	Test...	Test...	Oper...	PU...	PU...	503...
26	2016.10.11 12:53:36	219	439 g	Testing	001	01	Test...	Test...	Oper...	PU...	PU...	503...
27	2016.10.11 12:53:38	221	439 g	Testing	001	01	Test...	Test...	Oper...	PU...	PU...	503...
28	2016.10.11 12:53:40	187	439 g	Testing	001	01	Test...	Test...	Oper...	PU...	PU...	503...
29	2016.10.11 12:53:42	188	439 g	Testing	001	01	Test...	Test...	Oper...	PU...	PU...	503...
30	2016.10.11 12:57:51	239	199 g	Testing	001	01	Test...	Test...	Oper...	PU...	PU...	503...
31	2016.10.11 12:57:53	203	200 g	Testing	001	01	Test...	Test...	Oper...	PU...	PU...	503...
36	2016.10.11 15:23:54	467	382 g	Testing	001	01	Test...	Test...	Oper...	PU...	PU...	503...
37	2016.10.11 15:23:56	356	382 g	Testing			Test...	Test...	Oper...	PU...	PU...	503...
38	2016.10.11 15:23:59	615	382 g	Testing			Test...	Test...	Oper...	PU...	PU...	503...
39	2016.10.11 15:24:19	365	504 g	Testing			Test...	Test...	Oper...	PU...	PU...	503...
40	2016.10.11 15:24:20	359	504 g	Testing			Test...	Test...	Oper...	PU...	PU...	503...
41	2016.10.11 15:24:21	351	504 g	Testing			Test...	Test...	Oper...	PU...	PU...	503...

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

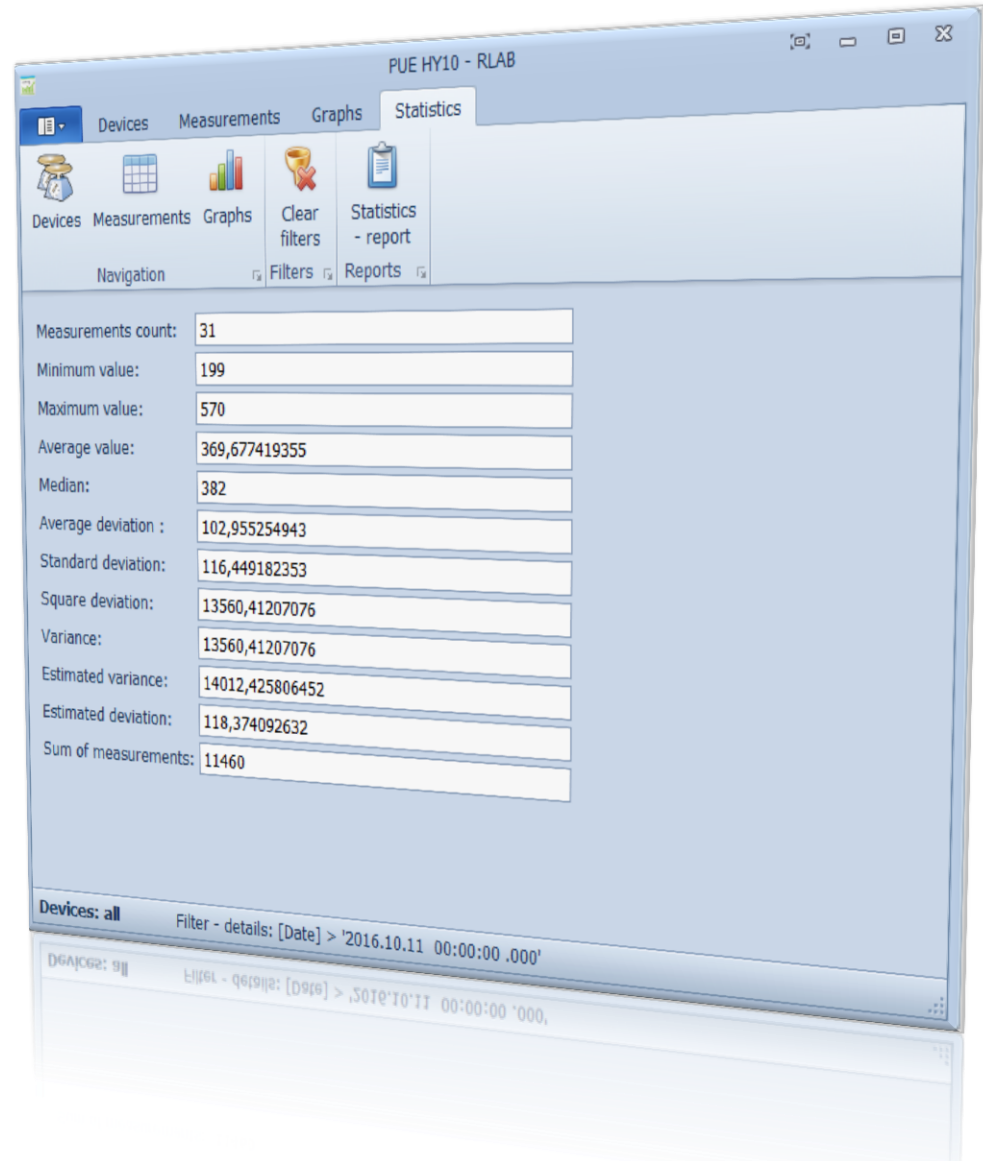
- Measurements graph with statistics data
- Gaussian distribution function and bar graph
- Stability graph – difference between successive measurements
- All in one graph



Statistics

Statistical analysis of measurement data

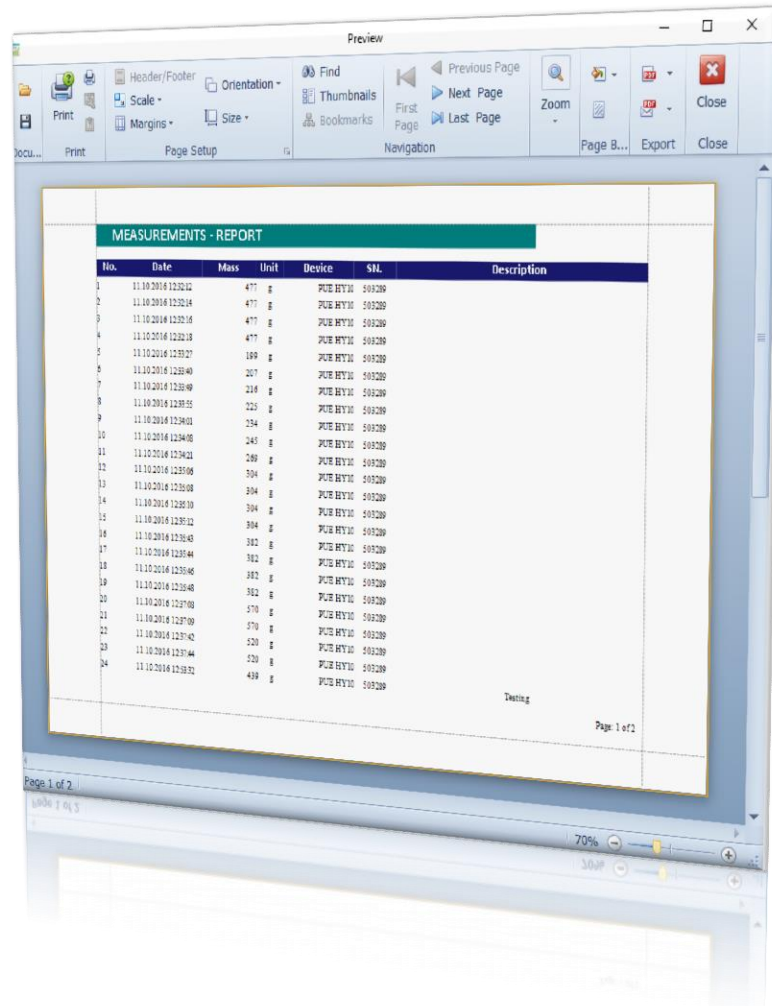
- **Measurements quantity**
- **Minimum value**
- **Maximum value**
- **Mean value**
- **Median**
- **Deviation: average, standard**
- **Variance**
- **Variance and deviation estimator**
- **Total weight**



Reports

For particular measurement series

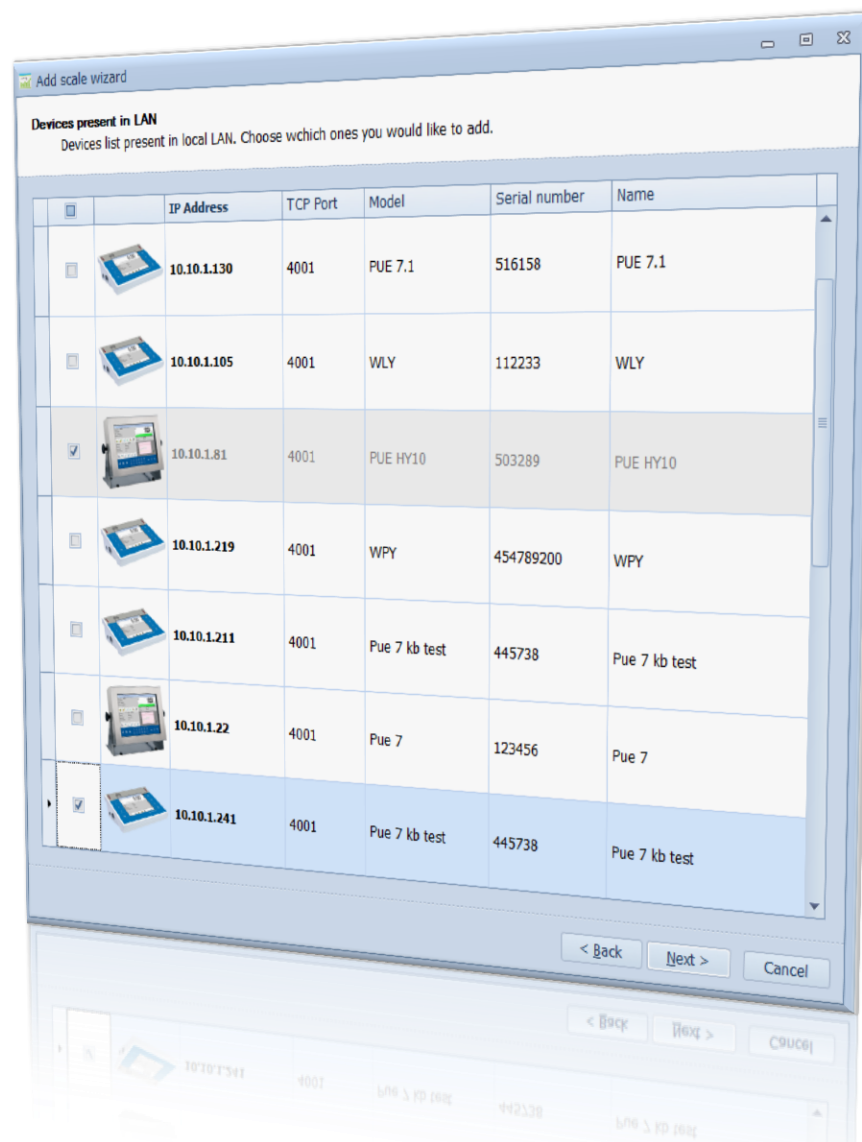
- **Filtering current measurements by date, mass, unit, description, etc.,**
- **Display of date-specified measurements,**
- **Session-based measurement reports,**
- **Filtering measurements by list of devices**



No.	Date	Mass	Unit	Device	S/N	Description
1	11.10.2016 12:20:12	477	g	PUR HY10	503289	
2	11.10.2016 12:20:14	477	g	PUR HY10	503289	
3	11.10.2016 12:20:16	477	g	PUR HY10	503289	
4	11.10.2016 12:20:18	477	g	PUR HY10	503289	
5	11.10.2016 12:20:20	169	g	PUR HY10	503289	
6	11.10.2016 12:20:22	207	g	PUR HY10	503289	
7	11.10.2016 12:20:49	216	g	PUR HY10	503289	
8	11.10.2016 12:20:55	220	g	PUR HY10	503289	
9	11.10.2016 12:20:51	254	g	PUR HY10	503289	
10	11.10.2016 12:20:05	243	g	PUR HY10	503289	
11	11.10.2016 12:20:21	269	g	PUR HY10	503289	
12	11.10.2016 12:20:06	304	g	PUR HY10	503289	
13	11.10.2016 12:20:08	304	g	PUR HY10	503289	
14	11.10.2016 12:20:10	304	g	PUR HY10	503289	
15	11.10.2016 12:20:12	304	g	PUR HY10	503289	
16	11.10.2016 12:20:43	302	g	PUR HY10	503289	
17	11.10.2016 12:20:44	302	g	PUR HY10	503289	
18	11.10.2016 12:20:45	302	g	PUR HY10	503289	
19	11.10.2016 12:20:48	302	g	PUR HY10	503289	
20	11.10.2016 12:20:03	370	g	PUR HY10	503289	
21	11.10.2016 12:20:09	370	g	PUR HY10	503289	
22	11.10.2016 12:20:42	520	g	PUR HY10	503289	
23	11.10.2016 12:20:44	520	g	PUR HY10	503289	
24	11.10.2016 12:20:32	439	g	PUR HY10	503289	

Auto search

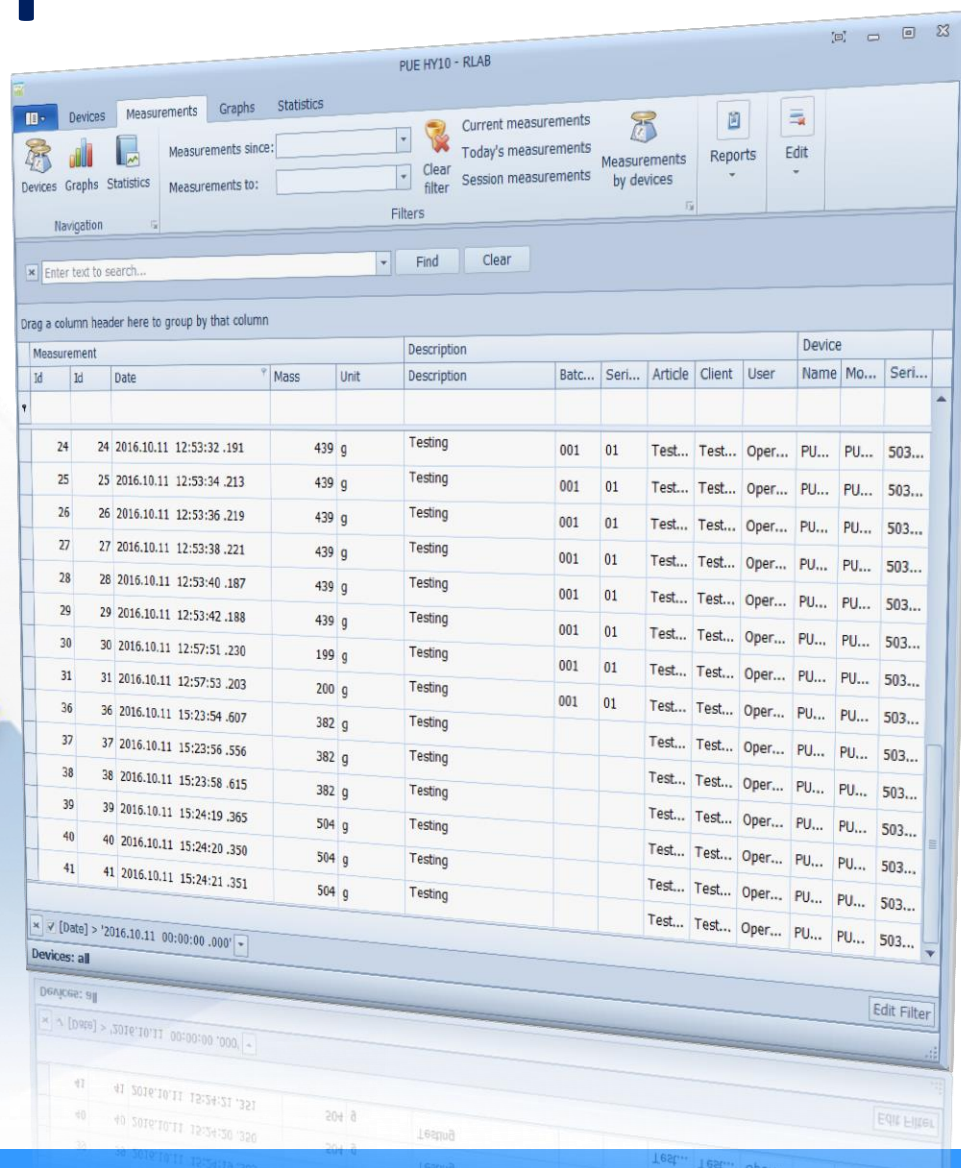
Function designed to detect LAN-operating weighing devices. List of detected balances is displayed, the operator can select models that are to be used.



Data acquisition

Balance-computer transfer

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



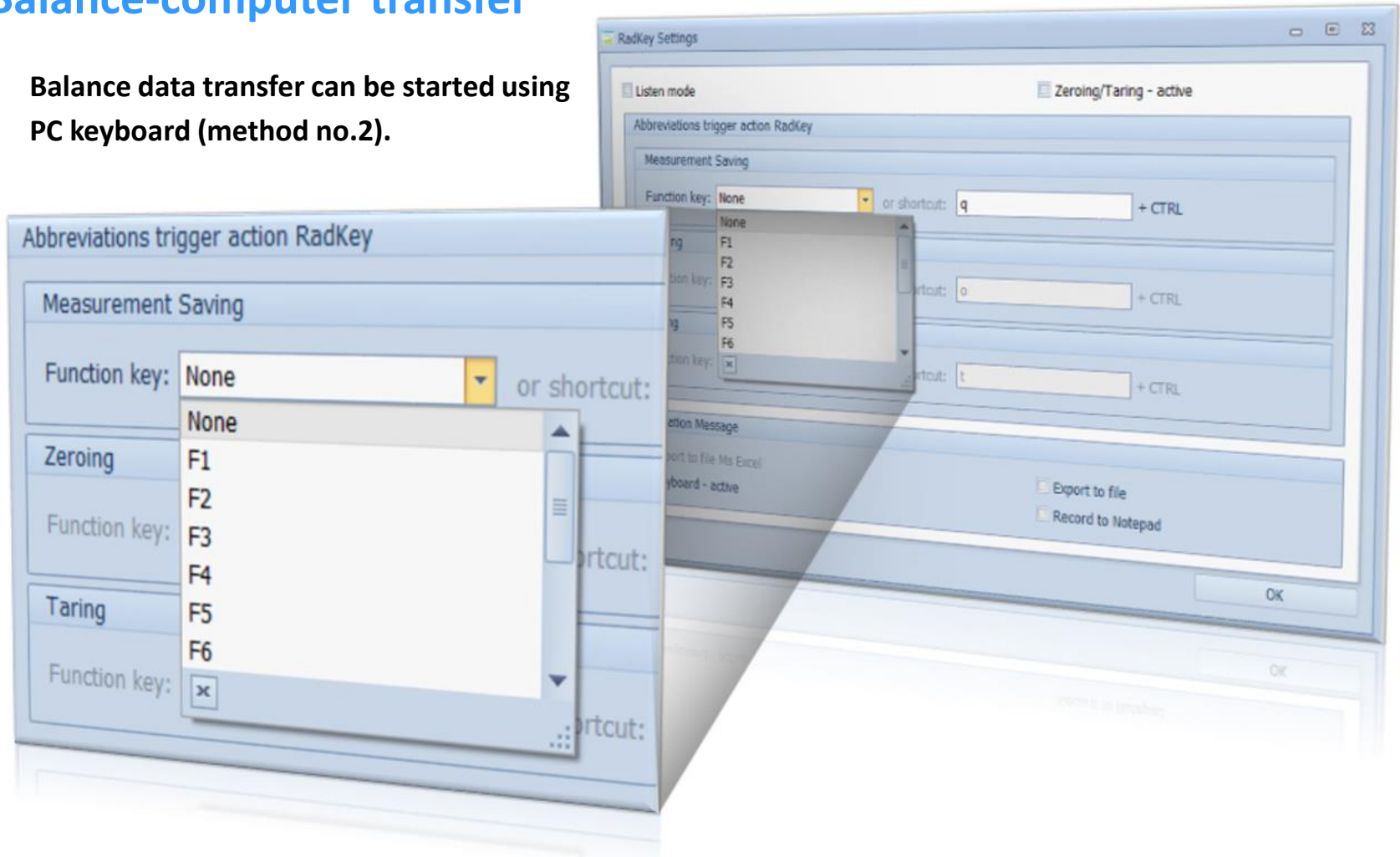
The screenshot shows the RADWAG software interface with a data table. The table has columns for Measurement Id, Date, Time, Mass, Unit, Description, and various identification fields. The data is as follows:

Measurement Id	Date	Time	Mass	Unit	Description	Bat...	Seri...	Article	Client	User	Device Name	Mo...	Seri...
24	2016.10.11	12:53:32	.191	439 g	Testing	001	01	Test...	Test...	Oper...	PU...	PU...	503...
25	2016.10.11	12:53:34	.213	439 g	Testing	001	01	Test...	Test...	Oper...	PU...	PU...	503...
26	2016.10.11	12:53:36	.219	439 g	Testing	001	01	Test...	Test...	Oper...	PU...	PU...	503...
27	2016.10.11	12:53:38	.221	439 g	Testing	001	01	Test...	Test...	Oper...	PU...	PU...	503...
28	2016.10.11	12:53:40	.187	439 g	Testing	001	01	Test...	Test...	Oper...	PU...	PU...	503...
29	2016.10.11	12:53:42	.188	439 g	Testing	001	01	Test...	Test...	Oper...	PU...	PU...	503...
30	2016.10.11	12:57:51	.230	199 g	Testing	001	01	Test...	Test...	Oper...	PU...	PU...	503...
31	2016.10.11	12:57:53	.203	200 g	Testing	001	01	Test...	Test...	Oper...	PU...	PU...	503...
36	2016.10.11	15:23:54	.607	382 g	Testing			Test...	Test...	Oper...	PU...	PU...	503...
37	2016.10.11	15:23:56	.556	382 g	Testing			Test...	Test...	Oper...	PU...	PU...	503...
38	2016.10.11	15:23:58	.615	382 g	Testing			Test...	Test...	Oper...	PU...	PU...	503...
39	2016.10.11	15:24:19	.365	504 g	Testing			Test...	Test...	Oper...	PU...	PU...	503...
40	2016.10.11	15:24:20	.350	504 g	Testing			Test...	Test...	Oper...	PU...	PU...	503...
41	2016.10.11	15:24:21	.351	504 g	Testing			Test...	Test...	Oper...	PU...	PU...	503...

Data acquisition

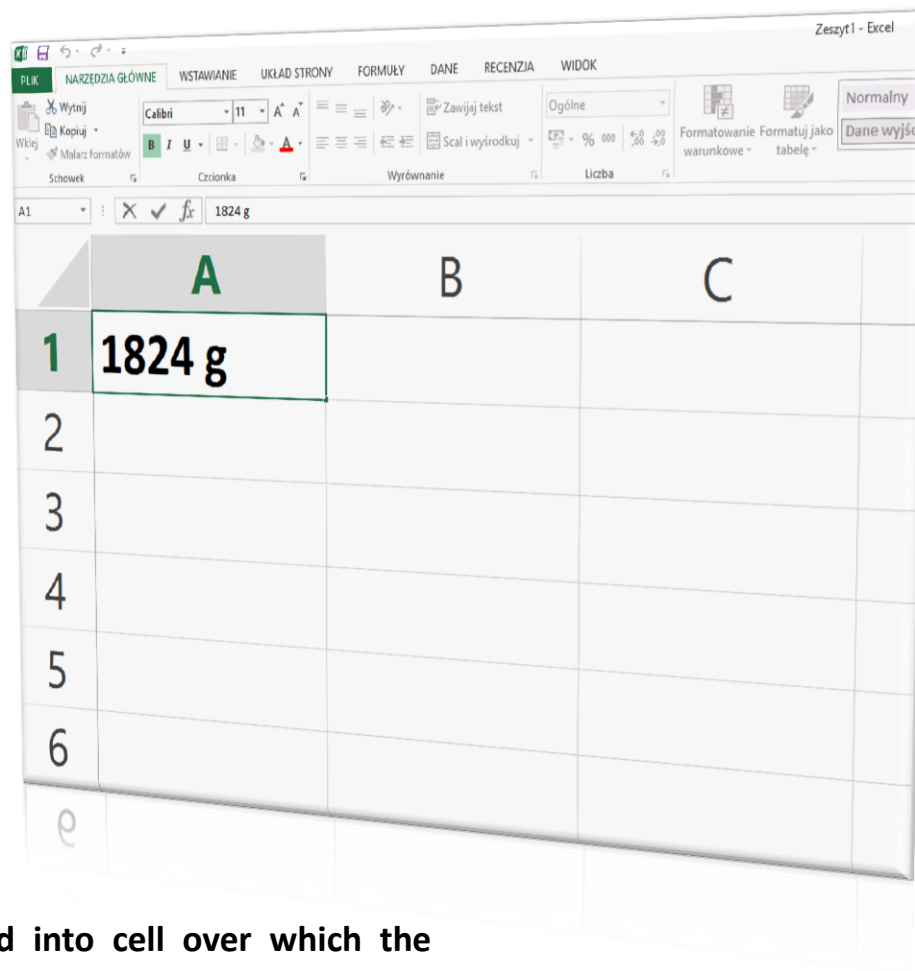
Balance-computer transfer

Balance data transfer can be started using PC keyboard (method no.2).



Balance indication

in cursor-specified cell
of spreadsheet program

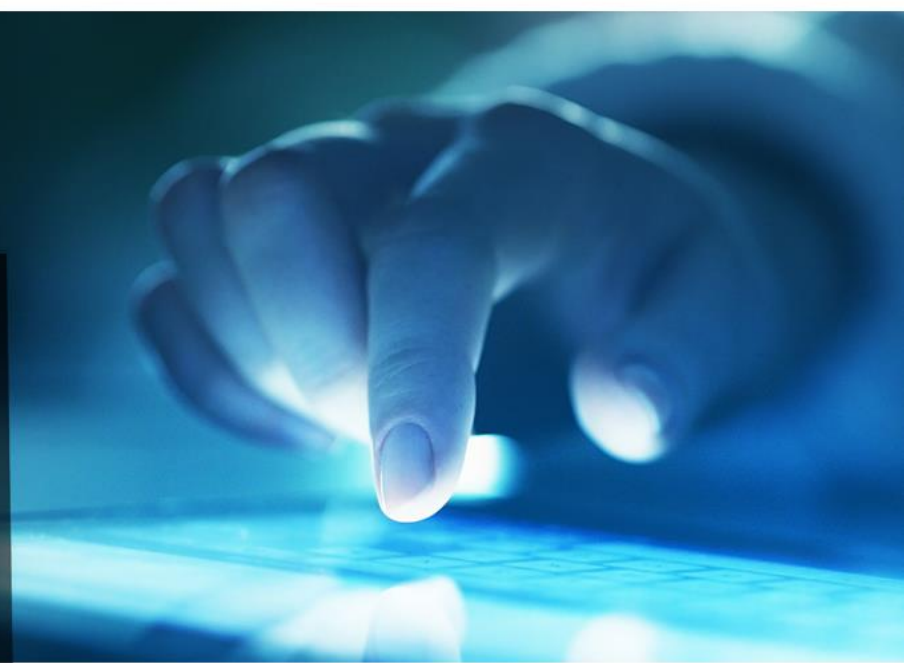


Balance-sent characters are read and entered into cell over which the cursor is placed.



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Thank you for your attention

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