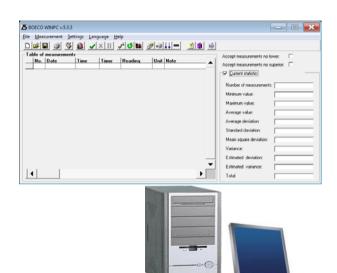
User Manual

Computer Program "BOECO WINPC"

Manual number: 01 2015-07-FNG

Version: 5.X.X





Boeckel + Co (GmbH + Co) KG Roedingsmarkt 33 20459 Hamburg Germany

Phone: + 49 40 325627-0 Fax: + 49 40 325627-41 E-mail: info@boeco.com Internet: www.boeco.com

TABLE OF CONTENTS

1. INTENDED USE	3
2. INSTALLATION	3
2.1. System requirements	3
2.2. Installation procedure	4
2.2.1. Program update	
3. STARTING PROGRAM	6
3.1. Main window	6
3.1.1. Window description	7
3.1.2. Close the program	9
3.1.3. Help	
4. SETTINGS MENU	10
4.1. Options	10
4.2. Cycle	
4.3. Chart	14
5. FILE MENU	
6. MEASUREMENTS	17
6.1. Automatic operation	17
6.2. Read	17
6.3. Tarring	
6.4. Continuous transmission	-
6.5. Reading non-stable data	
6.6. Calibration report	
6.7. Chart	
7. LANGUAGE	22

1. INTENDED USE

Program "BOECO WINPC" has been designed for collecting measurement data form scales made by BOECO and performing some statistical calculations.

Basic program functions:

- Reading data from scales, recording measurements in a file,
- Possibility of manual or automatic readings of measurements,
- · archiving of measurement data in a file,
- · visualization of measurement data in a chart,
- statistical processing of measurement data,
- creating reports from the selected set of measurements.

Notice:

Boeco shall not be liable for any errors resulting from wrong use of the program.

2. INSTALLATION

2.1. System requirements

Minimum requirements:

- Processor INTEL or AMD >= 1200 MHz,
- RAM minimum 256 MB (recommended 512 MB),
- Graphic card SVGA (resolution minimum 1024x768 with 24-bit colour palette),
- Communication port RS-232,
- Free space on a Hard Drive >=1 GB,
- Mouse,
- Keyboard,
- A colour monitor with a resolution of 1024x768,
- System Windows XP/2000/Vista/7,
- Printer (format A4),
- Software for reading pdf files (for manuals),
- · Basic computer operation skills.

2.2. Installation procedure

In order to install the program put the installation CD to the CD-ROM drive. An installation program of "BOECO WINPC" should start running automatically. If the installation is to be performed manually run program <Install_BOECO_WINPC_5.x.x.exe> in the main folder of the CD.

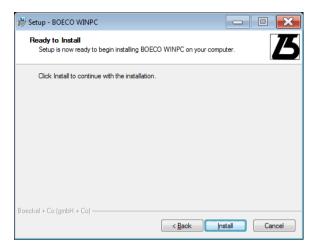
Follow the instructions in the subsequent windows.

The welcome window of the installation wizard:



Press "Next" to continue.

The Ready to Install window:



Press button "Install" to continue.

The installation completion window:



Then "BOECO WINPC" will be quickly installed. Press "Finish" to close the installation wizard.

2.2.1. Program update

In case when program ,, **BOECO WINPC**" has already been installed on a computer and when the user starts to install a new version of the program, the whole installation process is similar to that when it is installed for the first time.

Notice:

Before the installation wizard is started it is advisable to make a backup copy for the program folder. Default folder is: <C:\Program Files (x86)\Boeco\BOECO WINPC\>.

3. STARTING PROGRAM

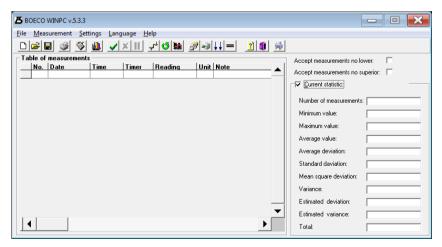
The program may be run by clicking the shortcut icon on the desktop:

The program may also be started from the START menu: "START/Programms/Boeco/BOECO WINPC".



3.1. Main window

After starting the program the main window is displayed:



It allows for displaying collected weighings and statistics in real time.

The main program options can be accessed from the menu or buttons in the tool bar. There are additional buttons to set data to be accepted by the program:

- It the cyclical mode is enabled the icon is displayed, otherwise can be seen, the cycle interval is set in the program which requests a reading in every cycle.
- If the continuous mode is enables the icon is displayed, otherwise can be seen.
- If the scales sends stable data it is signalled by icon otherwise icon can be seen.

Notice:

When the weighings are collected the statistics are calculated in real time after every weighing. It can cause some problems on computers with low processor capacity. The program may slow down some operations or even the operation in real time may be impossible. In such case option "Current statistics" needs to be disabled.

3.1.1. Window description

Title bar – displays program name and version. Standard windows buttons allows for minimizing, maximizing or closing the window:



Main menu – a menu with all functions of the program:



Buttons in the toolbar – buttons with direct access to some functions:



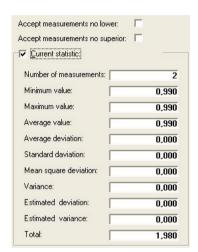
Buttons' description:

Open new series of measurements Open an existing series of measurements in file with ož. extension * ser Saves current weighings from the table to a file Prints current measurements and statistics Opens the report window Shows the chart of weighings Starts automatic operation X Terminates automatic operation Holds automatic operation Opens program settings Opens cycle settings Opens chart settings Reads one measurement from a scale Tares scale Initiates or terminates continuous transmission Enables / disables non-stable readings Displays help GI. Closes program

Table of measurements – an area for displaying measurements:

į	No.	Date	Time	Timer	Reading	Unit	Note	
	1	2010-09-13	15:00:55	0	0,990	kg		
,	2	2010-09-13	15:00:55	0	0,990	kg		

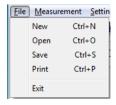
Window of Statistics – displays statistical information about measurements.



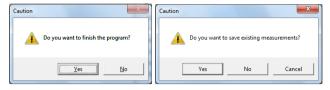
After choosing one of options "Accept measurements no lower / no superior", a window to describe a limit value will appear.

3.1.2. Close the program

Closing the application is possible after pressing button or choosing item "File/Exit" in the menu:



Closing the program and some windows is preceded by displaying a dialogue window to confirm or contradict the operation.:



3.1.3. Help

Info window will be displayed after pressing or choosing item "Help" in the menu:



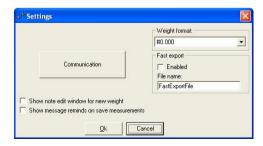
4. SETTINGS MENU

4.1. Options

The access to menu item "Options" is possible after pressing button or entering submenu "Settings/Options":



In menu "**Options**" parameters of communication with a scale are set. Connect the scale to an RS232 COM port or Ethernet and then carry out configuration of parameters according to the description.



Communication

The button for accessing a configuration window for defining the connection with a scale.

Communication via RS-232



Description:

Port Number Serial port number to be used for communication

with scales

Baud rate Communication speed, the same as set in scales

Save Save settings
Cancel Cancel settings

TCP communication



Description:

Scale IP/DNS IP address used by a scale

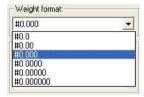
TCP port TCP port number used by a scale

✓ Save Save settings

Cancel Settings

Measurement Format

Set displaying format.



After modifying it the changes will be visible after restarting the program in the table of measurements.

Fast export

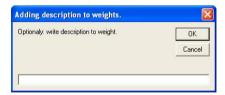
After enabling the option measurements from the table will be automatically saved to file *.csv with given name. Subsequent savings are added to the file.



Choosing the item "Save" in menu "File" causes clearing the table and saving measurements in the right file. Saving measurements to a file with extension *.ser is not possible then.

Editing description

When option **<Show note edit window for new weight>** is selected, after every measurement a window can be displayed for typing a description of the measurement.



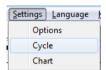
Editing records form the table of weighings is possible as well (main program window) after double-click on a measurement.

Saving remainder

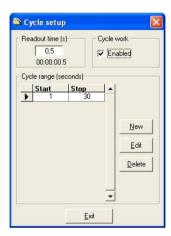
When option **<Show message reminds on save measurements>** is selected then when 18 measurements are overpassed, so the list in the table of measurement is full, the message window will be displayed. All changes in configuration will be introduced after pressing button "OK".

4.2. Cycle

Access to option "Cycle" is possible after pressing button or entering the menu item "Settings/ Cycle:



In the program you can set a time interval between subsequent reading and enable the cyclical readouts.



Subsequent readouts with time interval (s)

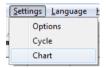
Setting the time in seconds for subsequent readings of measurement from a scale. The minimum range is 0.5 s – and maximum 86399 s.

Cyclical operation

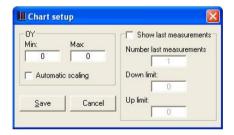
Enables operation of the program with the declared step. Numbers in fields mean quantities of seconds which have elapsed from the first measurement.

4.3. Chart

Setting options for "Chart" is accessible after pressing or choosing menu item "Settings/Chart:



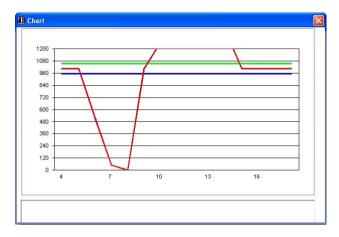
Window "Chart setup" allows for changing the look of the chart:



In fields **Min** and **Max** set the range of values you want to see in the chart. If you do not want to limit the range tick the option "**Automatic scaling**".

After enabling option "Show last measurements", you can limit the number of measurements put in the chart to the quantity declared in field "Number last measurements". Additionally you can display two horizontal lines that would represent some limitations for measurements or simplify readings.

Example chart:

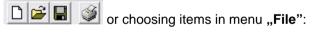


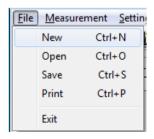
Colours:

Red Measurements
Green Top threshold
Blue Bottom threshold

5. FILE MENU

Different file functions are accessible after pressing buttons:





File menu items:

New Starting a new series of measurements, deleting current

measurements and statistics.

Open After opening a file measurements from the file will be

recovered and as well as statistics saved in file with extension *.ser. If current measurements are included in the table of measurements a warning is displayed and

users can save them before erasing.

Save Saving current measurements from the table of

measurements. Type a file name and choose a folder to save the file. The saved files will have extensions *.ser (series) or *.csv, depending on settings. After savings the table of measurements is emptied and statistics zeroed.

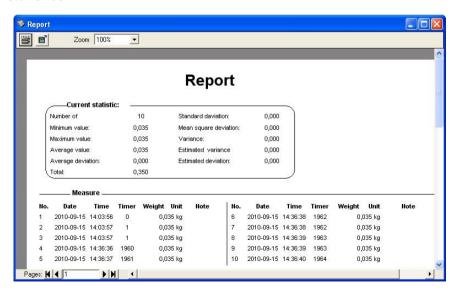
Print Printing weighings and statistics. After choosing the item

a printout view is displayed. Press the printer icon in the

window to print the data.

Exit Closing the program

The view of general report generated from measurements and statistics:



6. MEASUREMENTS

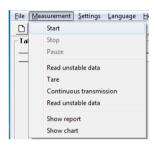
Notice:

In case of lack of communication between the program and a scale check the configuration of connection in the menu:

"Settings/Options/Communication".

6.1. Automatic operation

The automatic operation is started by pressing button or choosing item "Start" in the menu "Measurements":

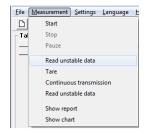


The frequency of readings is set in window "Cycle setup" (see section 4.2). If the cyclical operation is enabled the program fetches data in the predefined cycles. In other cases measurements are fetched continuously (with maximum speed for the baud rate). The automatic operation stops after pressing button or item "Stop" in the menu "Measurements".

The automatic operation can be terminated after pressing button or item "Pauze" in the menu "Measurements".

6.2. Read

In order to read data from a scale press button or choose item "Read stable data" in the menu "Measurements":



You can press button "Print" on the scale.

6.3. Tarring

A scale cooperating with "**Boeco**" software can be tarred by pressing button or choosing item "**Tare**" in the menu "**Measurements**":

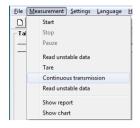


The scale will display **0**, and all performed measurements will be of net value.

6.4. Continuous transmission

Starting the continuous transmission causes the scale to send data to the computer without any requests.

Press button to start the continuous transmission or choose item "Continuous transmission" in the menu "Measurements":



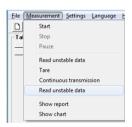
A window informing about receiving data is displayed.



Press button to stop continuous transmission or press "Esc" on the keyboard. Then measurements will be copied to a database.

6.5. Reading non-stable data

If we want to register data without checking if results are stable or not press button or choose item "Read unstable data" in menu "Measurements":

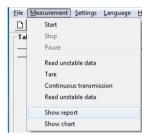


If a scale sends "non-stable" data icon 🗯 is displayed in the toolbar.

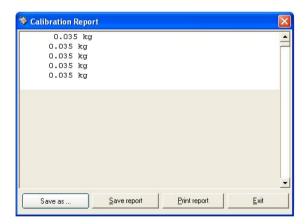
If the scale sends "stable" data icon is displayed in the toolbar.

6.6. Calibration report

In order to show all data send by a scale (not only measurements) press icon or choose item "Show report" in the menu "Measurements". It can be used e.g. for receiving and saving calibration reports.



Calibration report window:



Data can be saved to a text file by pressing button "Save as..." and/or print to a *.pdf file by pressing button "Print report".

6.7. Chart

Collected measurements can be presented as a chart. Press button or "Measurements" in the menu and submenu "Show chart" to draw the chart:

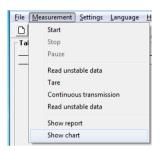
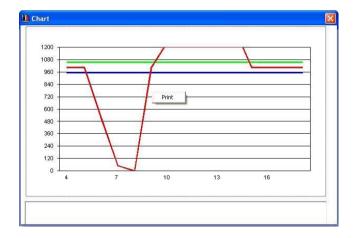


Chart parameters can be changed in window "Chart setup" (see section 4.3). In order to print the chart right-click the chart and choose "Print" from the pop-up menu.



7. LANGUAGE

Users can change the language after choosing "Language" in the menu:



Confirm the choosen language by pressing "OK", then the following message window appears:



After pressing "**OK**" the program needs to be rerun to use the new settings.



Boeckel + Co (GmbH + Co) KG

Roedingsmarkt 33 20459 Hamburg Germany

Phone: + 49 40 325627-0 Fax: + 49 40 325627-41

E-mail: info@boeco.com Internet: www.boeco.com