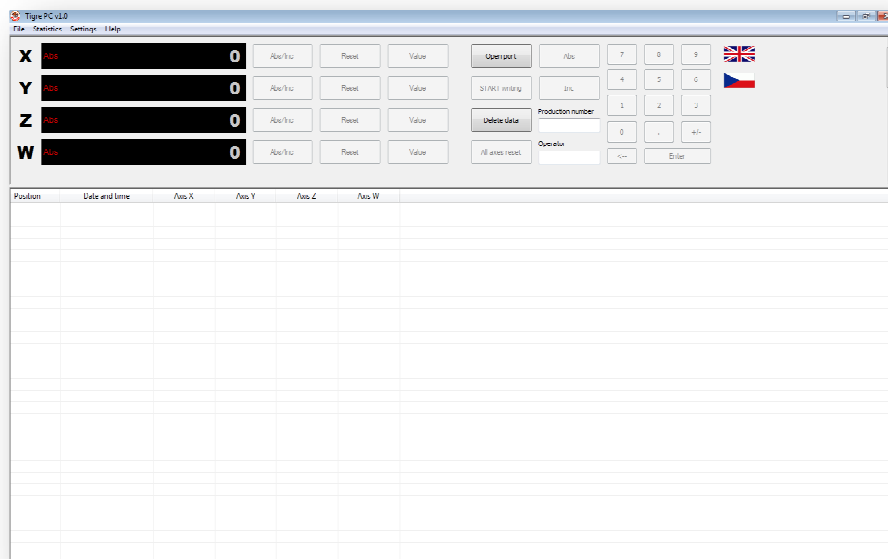




Tigre PC v 1.0

Software for communication via serial interface



Vertrieb:
Öchsner Messtechnik GmbH
Schulzengasse 17
97291 Thüngersheim
www.oechsner-messtechnik.de
info@oemt.de
+49 9364 817605-0

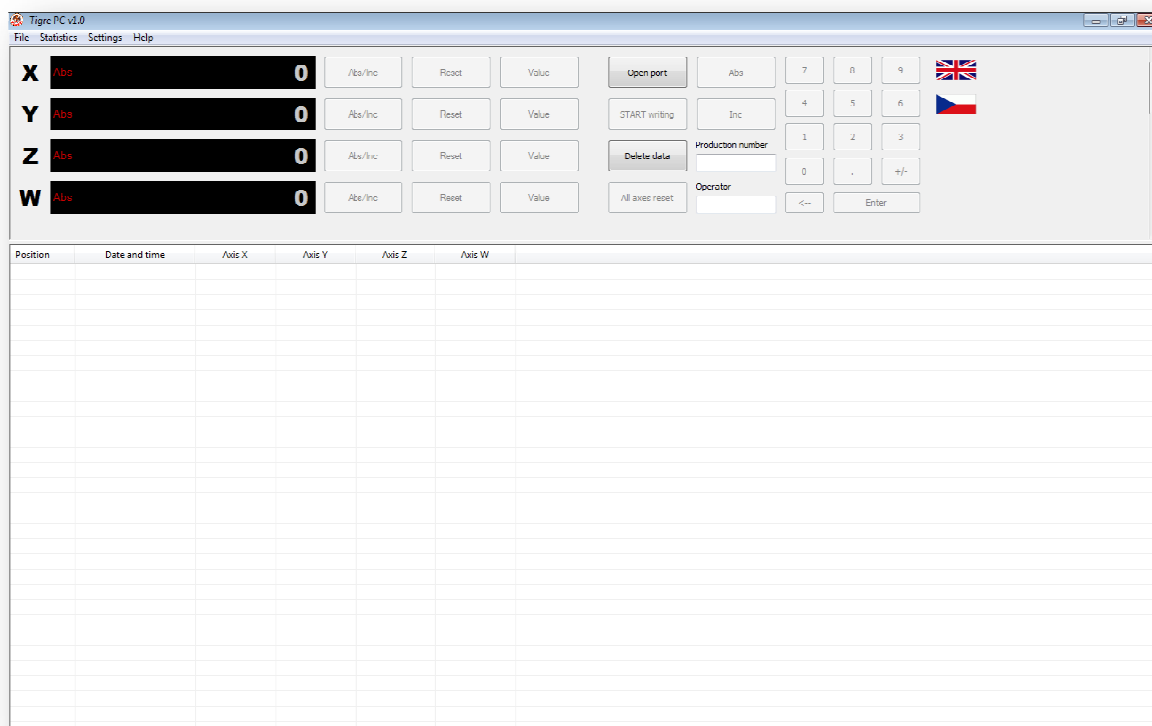
Version: 10.06.2014

Content

1.	General information	3
2.	Menu	5
3.1.	FileFehler! Textmarke nicht definiert.	
3.1.1.	Save data as CSV.....	5
3.1.2.	Delete data	5
3.1.3.	Print setup... ..	5
3.1.4.	Print... ..	6
3.1.5.	Exit program	6
3.2.	Statistics.....	6
3.2.1.	Data processing	6
3.2.2.	Bar chart	6
3.2.3.	Line chart.....	6
3.3.	Settings.....	6
3.3.1.	Setup.....	7
3.3.2.	Measuring.....	8
3.3.3.	Display axes... ..	9
3.3.4.	Machine reference	9
3.3.5.	Language.....	9
3.4.	Help	9

1. General information

After starting the program following main window appears.

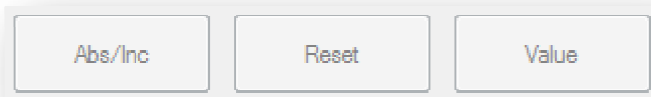


The fields situated in the upper lefthand corner display values of the measurement axes retrieved via the serial port. Each axis is labeled by its name. Furthermore, labels of current axis scale modes are displayed in the fields: Abs or Inc.



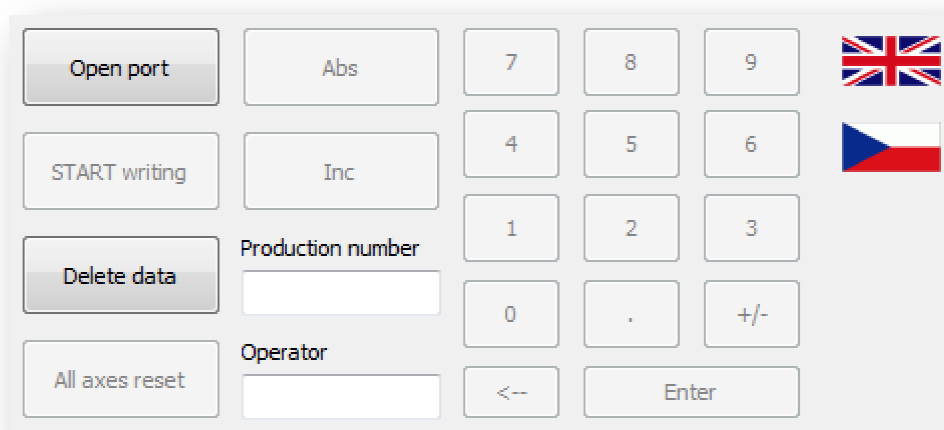
The buttons **Abs/Inc**, **Reset** and **Value** are at disposal for each axis.

- The **Abs/Inc** button switches between absolute and incremental scale modes.
- The **Reset** button enables to set the axis to zero.
- The **Value** button enables to set any value of the axis.



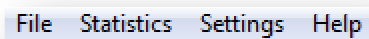
Remaining buttons are common for all the axes.

- The **Open port** button starts communication via the serial port.
- Click the **Start writing** button to write the current data into the table displayed in the lower part of the window in dependence on the selected writing mode.
- The **Delete data** button removes data from the table.
- Click the **All axes reset** button sets all the axes to zero.
- The **Abs** button sets absolute scales for all the axes.
- Similarly, the **Inc** button sets incremental scales for all the axes.
- The numeric buttons enable to enter values of the axes after pressing the **Value** button of a selected axis. This mode can be finished by pressing the **Enter** button.
- The national flag symbols enable to switch between languages of the program.

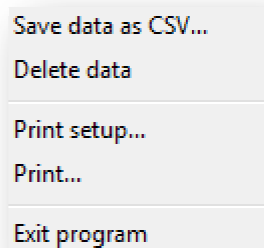


2. Menu

The main menu of the program contains 4 items: **File**, **Statistics**, **Settings** and **Help**.



3.1. File



3.1.1. Save data as CSV...

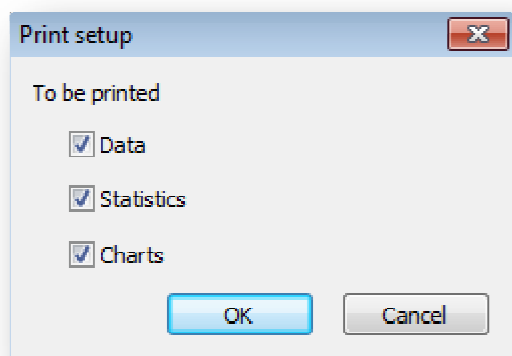
This command is used to store data of the table on your hard disk as a CSV file. The command opens a dialogue window to enter a file name and its location. This command is only available when the table contains at least one record.

3.1.2. Delete data

Function of this command is the same as a function of the corresponding button in the main window. All the data in the table will be erased after selecting this command.

3.1.3. Print setup...

This option enables you to select the items that will be printed. You can select any combination of the options **Data**, **Statistics** and **Charts**.



3.1.4. Print...

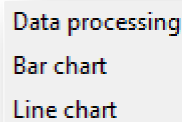
This option is available only if the table contains at least one record and at least one option is selected in the **Print setup** dialogue box. After selecting the command, a dialogue box for selecting the printer and print settings appears. Once confirmed, the items selected in the **Print setup** dialogue box will be printed.

3.1.5. Exit program

This command closes the application. If the table contains data that has not been saved yet, you will be asked to save the data.

3.2.Statistics

These commands are available only when the table contains at least one record.



Data processing
Bar chart
Line chart

3.2.1. Data processing

This option provides basic statistical evaluation of stored data. Minimum, maximum, average, standard deviation and variance values are calculated for each axis.

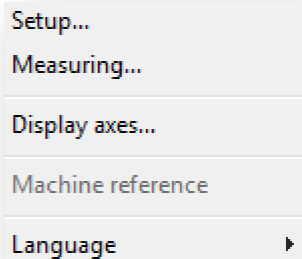
3.2.2. Bar chart

Bar chart of the values listed in the table is displayed in a new window. You can choose the axis whose values are the source data for the chart.

3.2.3. Line chart

Line chart display.

3.3. Settings



Setup...
Measuring...
Display axes...
Machine reference
Language ▶

3.3.1. Setup...

Port: COM1: Rate: 19200 Bd ☐ Reference point

Axis label	Axis value	Encoder resolut...	Reference type	Machine reference value	Apply reference
X	11	0.005000	Positive	0.000000	No
Y	12	0.005000	Positive	0.000000	No
Z	13	0.005000	Positive	0.000000	No
W	14	0.005000	Positive	0.000000	No

Close

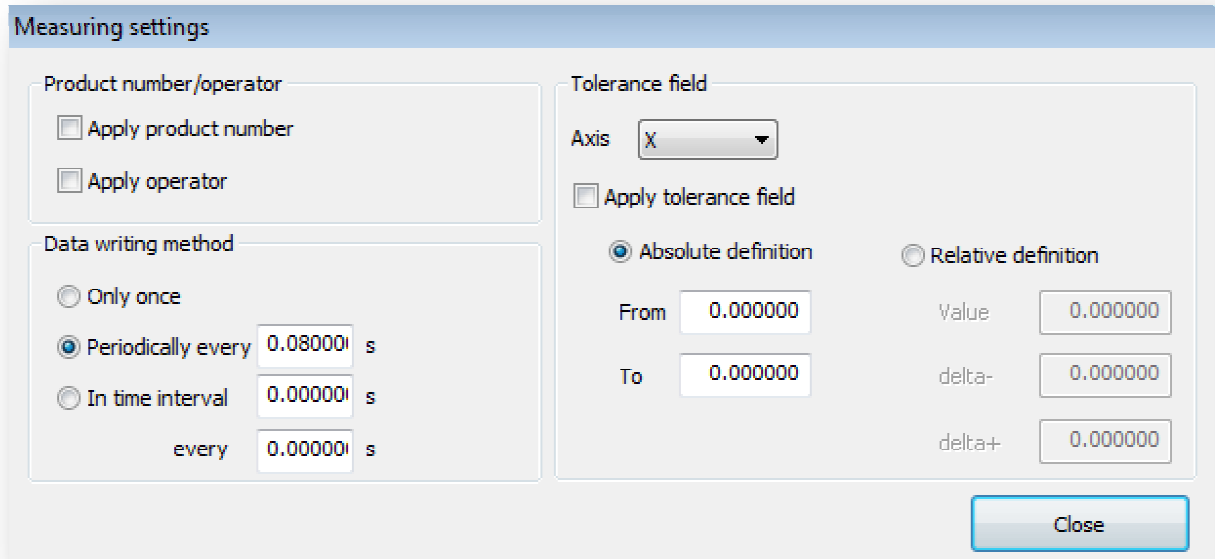
Here you can choose a communication port and a baud rate.

The **Reference point** option determines whether, after starting communication (opening the port), the program will wait for receiving signal from the reference point of axes with enabled **Apply reference** option.

The table shows the currently set parameters for all the axes. Change can be done by clicking the mouse on the line of the corresponding axis. A new dialogue window appears then.

- **Axis label** – the user can enter a name of the axis.
- **Axis value** – internal identification of the axis in hexadecimal.
- **Encoder resolution** – parameter of the encoder defined by the producer.
- **Reference type** – parameter of the encoder defined by the producer.
- **Machine reference value** – after setting the **Machine reference** command and moving the encoder over the reference point this value will be written into the axis.
- **Apply reference** – this parameter enables or disables reference point commands for an axis.

3.3.2. Measuring...



The image shows a 'Measuring settings' dialog box with the following sections:

- Product number/operator:** Contains two checkboxes: 'Apply product number' and 'Apply operator'.
- Data writing method:** Contains three radio buttons: 'Only once', 'Periodically every' (selected), and 'In time interval'. The 'Periodically every' option has a text input field with '0.08000' and a unit 's'. The 'In time interval' option has a text input field with '0.00000' and a unit 's', and a label 'every' followed by another text input field with '0.00000' and a unit 's'.
- Tolerance field:** Contains a dropdown menu for 'Axis' with 'X' selected, a checkbox for 'Apply tolerance field', and two radio buttons: 'Absolute definition' (selected) and 'Relative definition'. Under 'Absolute definition', there are 'From' and 'To' text input fields, both containing '0.000000'. Under 'Relative definition', there are 'Value', 'delta-', and 'delta+' text input fields, all containing '0.000000'.
- A 'Close' button is located at the bottom right.

The **Apply product number/operator** selection boxes determine whether to write values into the table or to print.

The **Data writing method** selection determines mode of writing

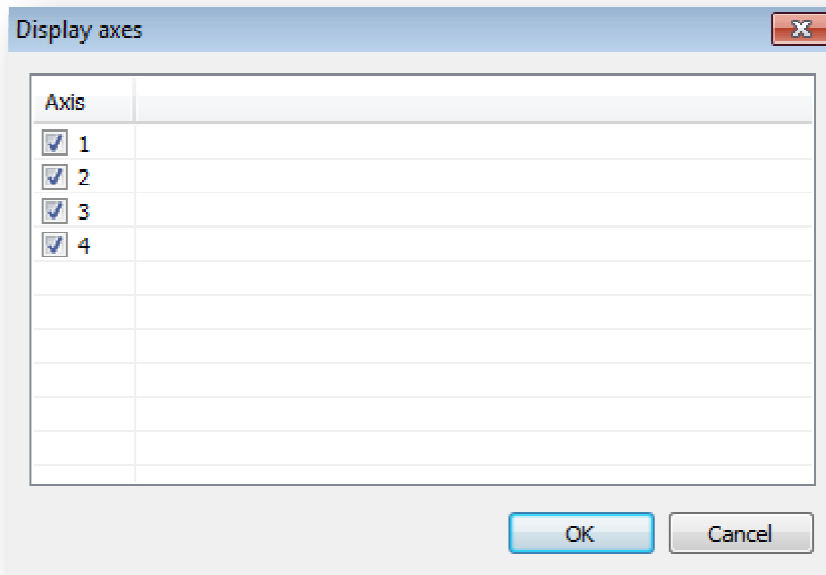
- **Only once** – writing current values.
- **Periodically every** – values will be written periodically after a defined period of time in seconds (minimum possible value is 0.02 s). Writing is finished by pressing the appropriate button.
- **In time interval** – values will be written periodically after a defined period of time in seconds (minimum possible value is 0.02 s) and during a specified time interval in seconds.

The **Tolerance field** selection determines the allowable range of values for each axis. If the **Apply tolerance field** option is not enabled, the entered values are ignored. The range of allowed values can be entered in two ways:

- **Absolute definition** – direct specification of the interval <From;To>.
- **Relative definition** – interval definition <Value-delta-;Value+delta+>.

3.3.3. Display axes...

The displayed dialogue box enables to select active axes. Remaining axes will be hidden.



3.3.4. Machine reference

This command is available during communication via the serial port only. After pressing the button move successively the machine over the reference points of all the axes with enabled **Apply reference** option. A message --ref-- instead of measured value is displayed for all the axes waiting for the reference point. When moving over the reference point the preset value is displayed and the axis starts to count.

3.3.5. Language

Here you can select user language of the program.

3.4. Help

This menu item contains the only command **About...** which displays information about the application.

