USER MANUAL

ProCELL software

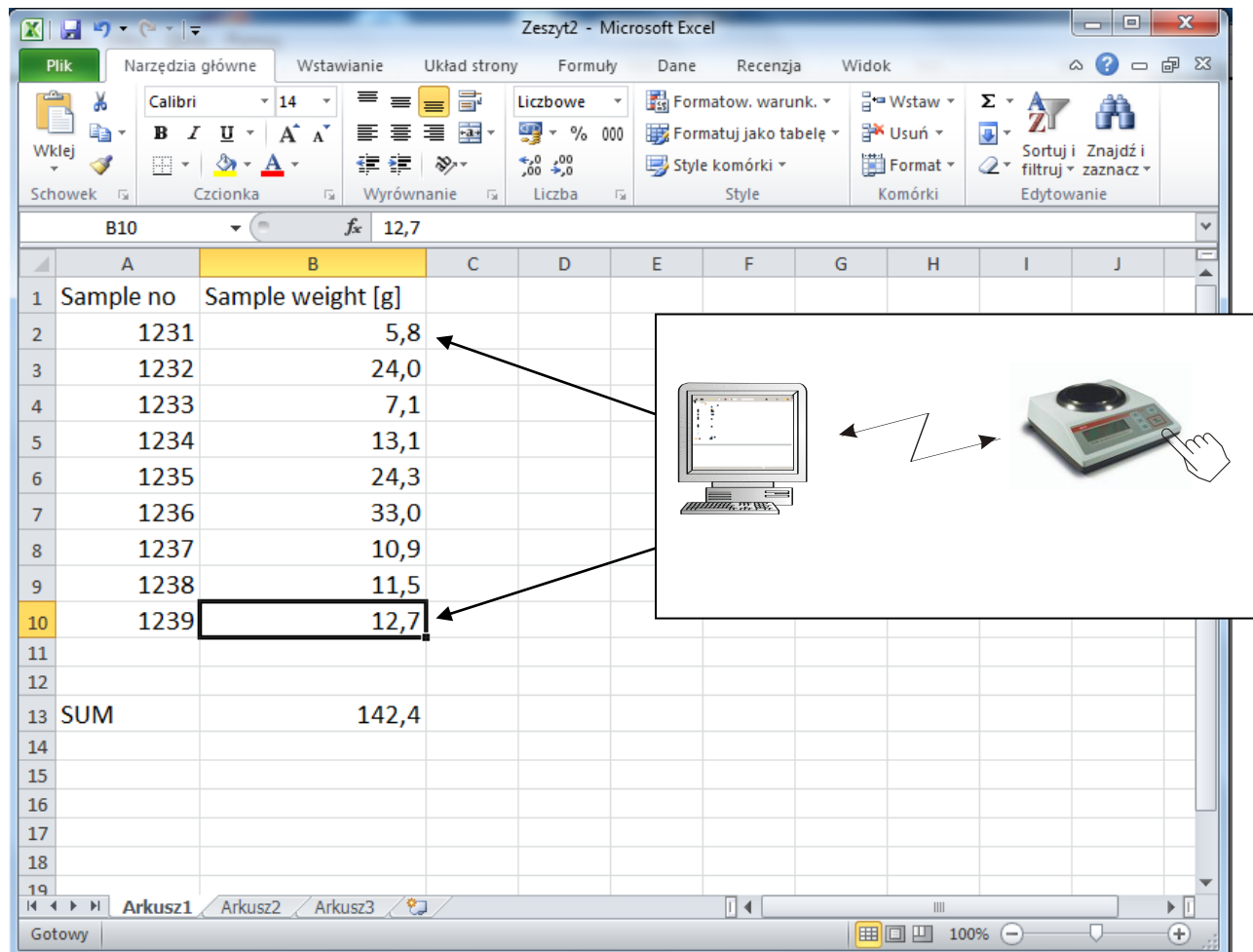**Version: 1.15**

Content

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1. General information

This software is used for transmitting indications of standard balance to any Windows application (e.g. spreadsheet), to the cursor location.
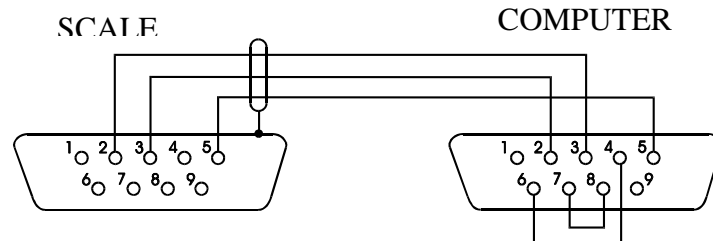

2. Installation and registration

a) ***Start program instalator file (eg. Procell v1.15 setup.exe)*** and carry out instructions (among others choose installation path or create shortcut on desktop).

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b) *Connect scale to:*

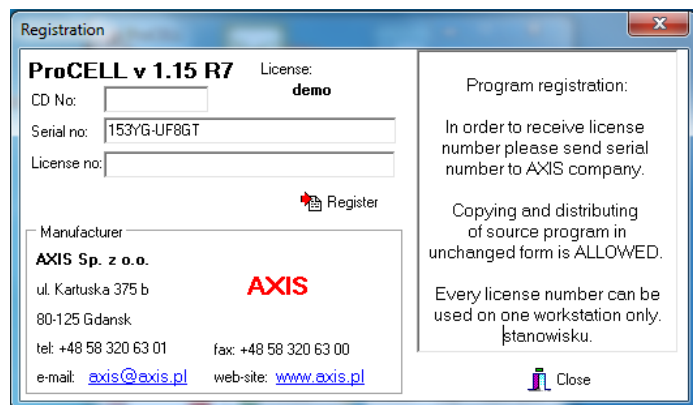– **Computer serial joint** (RS232C) using scale-computer cable.

Scale-computer cable scheme

– **Local network LAN (Ethernet)** using wire coming from scale ended with RJ-45 joint.
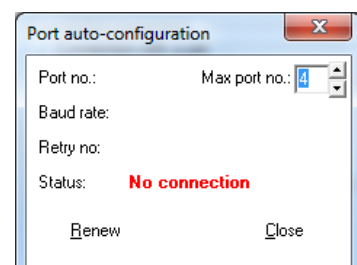
c) *Launch ProCELL software.*

First launching opens registration window. In order to register Procell software, contact producer (email: axis@axis.pl) and write serial number and CD number. Received license number and CD number inscribe in proper windows and press *Register*. After registering registration windows won't show up anymore. If user skips initial registering he can return to it using *About* tab and by pressing *Registration*.

Limited work without registration is possible (only 3 measurements). To omit registration use *Close* button. Trial version is also possible. To try it, contact producer (e-mail: axis@axis.pl).

ProCELL software starts working with automatic port recognition and sets transmission parameters (scale should have stable indications). Communication connection attempts are executed for ports from COM1 to maximal number set in *Max port no* window. During first turning on the scale, „Print" sign indicated – which means confirmation of received data.

If Procell isn't registered it is possible that user must open the port manually by pressing *Open port* in *Communication* lap (look chapter 3.2 Communication).

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d) ***Open destination software (e.g. Excel)*** and set cursor where You want to start results to inscribe. Spreadsheet will cover ProCELL window but this doesn't affect software work.

Scale *Print* (*P*) key causes inscribing result to spreadsheet cell (after scale indication stabilization) and moves cursor e.g. one cell down or right. *Print* indication on scale display informs about sending result.

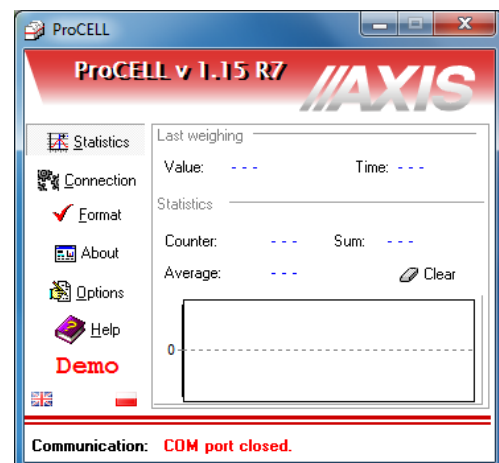## 3. Options and settings

3.1. Statistics

This window shows information about sent weighing results:

- value and time of last measurement,
- measurements quantity, sum and average.
Graph shows results values.
Press *Clear* to erase statistics for last series of measurements.

Attention: *Indication* option in *Format* tab must be chosen to use statistics.
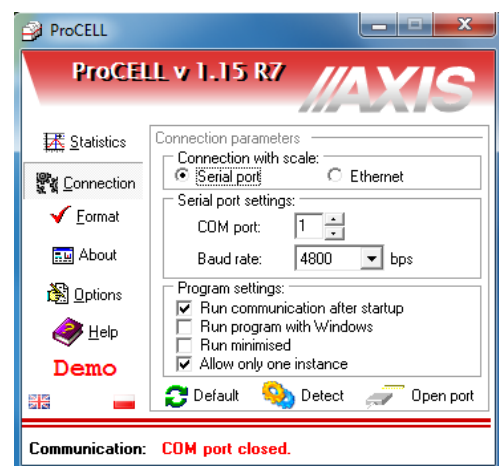
3.2. Communication

Communication window enables to set connection parameters and software starting options. First of all choose scale connection option (serial port or local network - ethernet).

Communication parameters can be set automatically (*Detect* option in case of serial port connection – look automatic configuration in chapter 2c) or manually.

In case of connection through serial port COM port number and transmission speed must be set. For transmission through local Ethernet network IP address, scale port number and communication protocol must be chosen.

Startup software options:

- *Run communication after startup* – automatic connection with scale after startup,
- *Run program with windows* – automatic Procell start during turning on computer system,
- *Run minimised* – after turning on Procell, the software is visible as a icon (green icon when port is on or red when off) in system,
- *Allow only one instance* – after turning on the program opening additional copies of software is blocked.

Buttons function:
- *Default* – communication default settings:
  ⇒ for serial port: COM1, speed 4800bps,
  ⇒ for Ethernet: 1001 port, protocol TCP
- *Detect* – automatically detects proper serial port parameters (available when port is closed)
- *Close port* –used to close port in order to make it available for other software.

3.3. Format

Procell can work not only with spreadsheets but also with all other programs (Windows application). In that case it could be important to adjust information format send from scale. Two basic data can be read-out:

– scale indication, which can be processed depending on chosen options and send to destination software,
– scale special function report, which is send without changes.

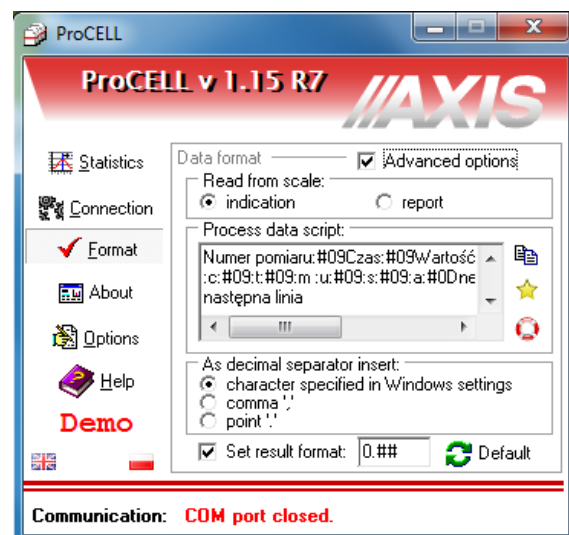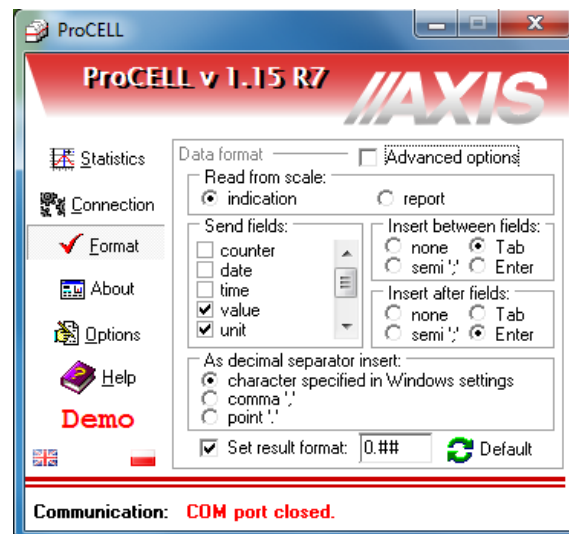Following data can be readout from scale to destination software:
– measurement number,
– measurement data and time,
– measured value and unit,
– sum and average from series of measurements.

The data can be send with separators: tabulating, space or end of line sign (Enter). Thanks to this composition of data is possible in column and lines.

Decimal separator can also be choosed (comma, point or character specified in Windows settings).

Additionally user can choose *Set result format*:

0.0## - this example means that the 12,140 result visible on scale will be send as 12,14. *0* after comma means how many numbers after comma must be send. # sign sends only non-zero numbers.

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Choosing advanced options enables to edit script that precisely describes format of send data (to destination software).

Possible data to send:

- string of constant data (e.g. sign „new measurement"),
- data fields values (e.g. mass, units etc.)
- ASCII signs (e.g. Enter),
- 'virtual' keys codes (e.g. pressing F1 key simulation).

Available options and special signs available after pressing button with lifebuoy icon →

Special sign starts with colon. After colon function sign. Constant sign strings saved without colon.

In case of :# sign additionally two digits (or big letters) of ASCII sign code are needed. ASCII and virtual keys table is available in ASCII i VK.pdf file.

To indicate ':' sign write it twice '::'.

New line sign can be inscribed as a special sign (:#0D) or as a new line in script (after pressing Enter).

Special signs and constant strings of signs can appear in any order and repeat.

To zero variable values (measurement number, sum and average) use *Clear* button in *Statistics*.

Example script (below) indicates signs string „new measurement:", measurement number and mass value with unit in three successive cells of spreadsheet (pass to next cell using TAB key) and passing to new line.
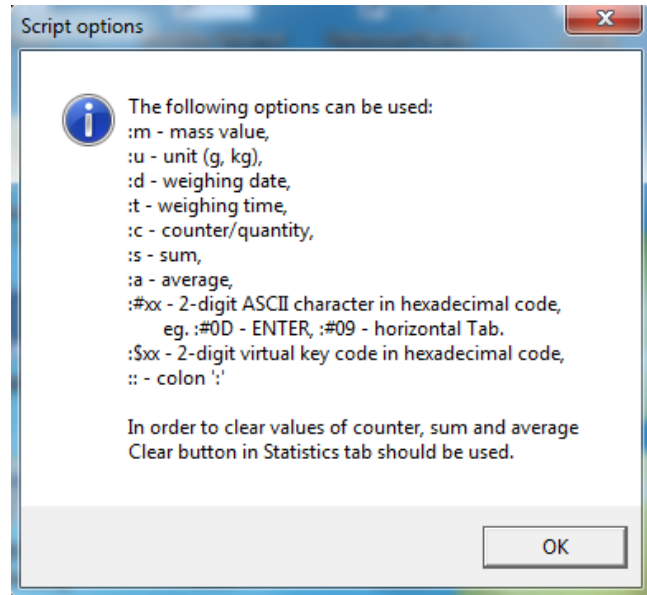
Script:

new measurement:::#09:c:#09:m :u:#0D

Sample result of script:

new measurement: 1   14,2   g
new measurement: 2   14,7   g
new measurement: 3   14,5   g

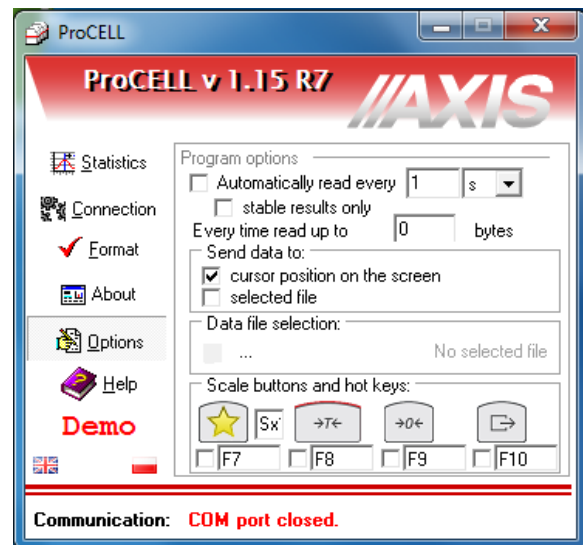Button with papers icon enables to extend script edition window.
Button with star icon enables to create script based on basic options chosen when *Advanced options* are not selected.

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3.4.   Options

In most cases weighing result is send after pressing Print (P) key on scale. It is also possible to initiate sending result or taring from computer level. *Scale buttons and hot keys* are used for this functionality. Direct keys responsible for taring, zeroing and sending result are available. Key with yellow star icon enables to send order written in text box next to it (CR and LF signs are automatically added).

To each key user can add a keyboard shortcut. To add a shortcut in proper text box write keyboard keys combination and select it. After minimizing or opening destination software pressing the keys combination will send proper order to scale.

Weighing result can be also send automatically in some time intervals. Automatic sending can be initiated in scale (*Send* option on) or in Procell software after selecting option *Automatically read every* and choosing time interval and unit.

Data can be send to actual cursor position or saved in chosen file.

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