

Accessories Data Acquisition Software "RIGAMO"

Brief Description

03.41

V 3.1

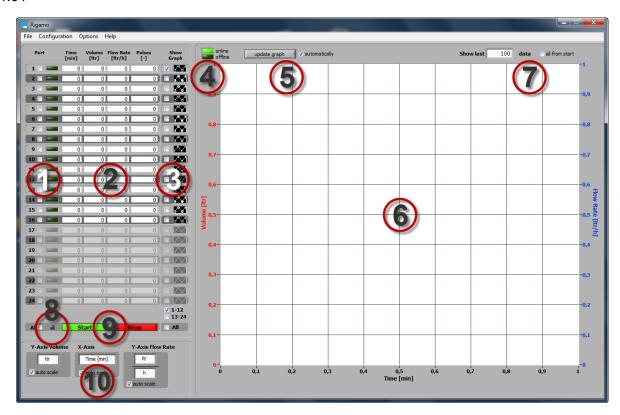
Rev. 02/2016

Software Features (overview):

- Windows software for data acquisition of gas volume and flow rate from up to 24 Ritter gas meters to a PC USB port.
- Support of multi-core processors
- Graphical and tabular display of measurement data
- Storing of data
- Print out (separately or in any combination) of
 - o Diagram
 - Test parameters
 - Measured values in tabular form
- **Export** of stored data to Microsoft Excel® spread-sheet (Excel 2003 or higher)
- Automatic correction of the dynamic (flow rate dependent) measurement error (MGC only)

Please note: Rigamo can only started once at a time at one PC.

No support of bi-directional recognition of the measuring drum rotation with Pulse Generator V4.01



- Area 1: Display of port status
- Area 2: Tabular display of data for respective ports in real time
- Area 3: Tick boxes for display "show" / "no show" of graphs
- Area 4: Indicator for online / offline display of graphs
- Area 5: Selection of graph updating mode (automatically/manually)
- Area 6: Diagrams for gas volume and flow rate
- Area 7: Number of last measurement data to show in diagram
- Area 8: Indicator of processor load status
- Area 9: Buttons "Start/Stop" of data acquisition
- Area 10: Dimensions of diagram axes



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System Requirements:

- Gas meter with built-in pulse generator (option)
- Digital Input Module "DIM" (accessory)
- Operating system Windows® XP / ~Vista / ~7 / ~8 / ~10
- Licence (dongle) for requested number of ports (= gas meters to be connected)
- Microsoft Excel® 2003 or higher for data export to Excel®
- Recommended processor performance: ≥1.5 GHz
- Random access memory (RAM): ≥500 MB
- 2 free USB ports (1 port for data acquisition, 1 port for licence dongle)
- Monitor 17"
- Monitor setting: Optimised for monitor resolution of 1280x 1024 pixel or higher
- Mouse / mouse pointer

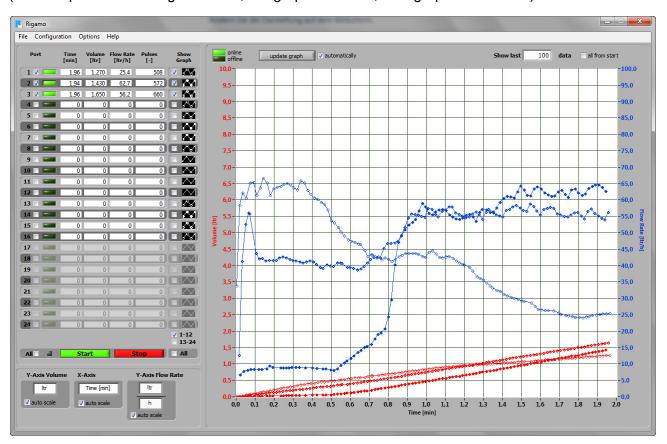
Please note:

No other National Instruments software should be installed on the respective computer as it may conflict with the Rigamo software.

A standard converter "USB to RS232" for connection to COM port cannot be used.

Monitor Display of Data Acquisition (Example):

(Data acquisition from 3 gas meters; red graphs: volume; blue graphs: flow rates)





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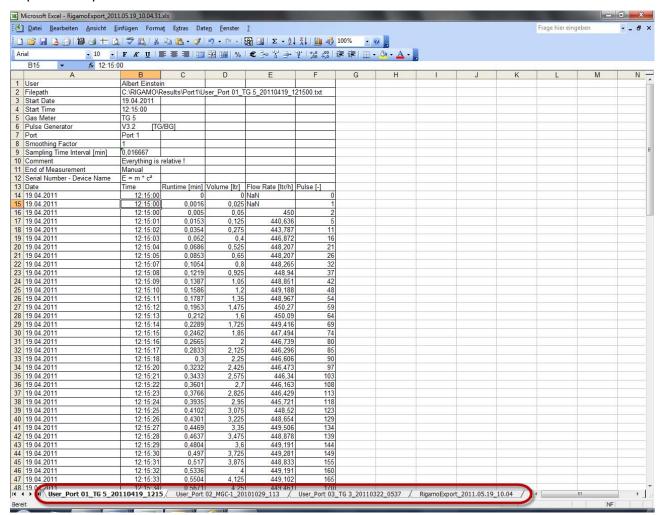
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Data export to Microsoft Excel®:

System requirement: Microsoft Excel® 2003 or a later version

Export example of three data files:



The data of each data file (parameters plus measurement data) are exported into a separate table. Additionally, a blank table is created with the name of the export file (see red mark in the window above).



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Schematic of a completed configuration

(Example for 4 connected gas meters)

