




# SOFTWARE

## DATA ACQUISITION SOFTWARE »RIGAMO« • DATA-SHEET



### Features

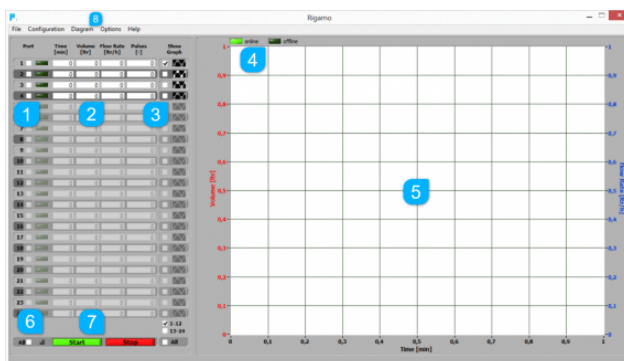
- > Windows software for data acquisition of gas volume and flow rate from up to 24 RITTER Gas Meters to a PC USB port.
- > Support of multi-core processors
- > Graphical and tabular display of measurement data
- > Storing of data
- > Print out (separately or in any combination) of  Diagram /  Test parameters /  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 on a single PC.

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

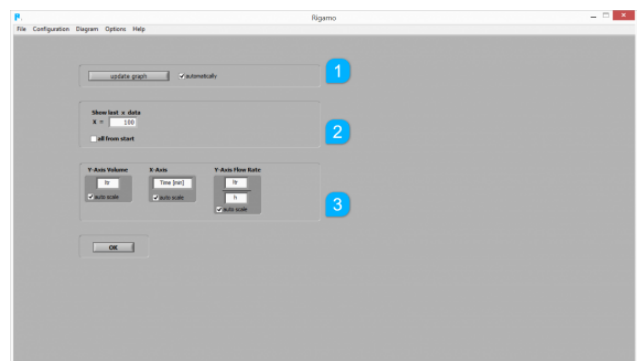
### Interface

#### Main Window (Data Window)



- > 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: Diagrams for gas volume and flow rate
- > Area 6: Indicator of processor load status and »DIM« connection status
- > Area 7: Buttons »Start/Stop« of data acquisition
- > Area 8: Menu item "Diagram" for displaying diagram related settings

#### Diagram Settings



- > Area 1: Selection of graph updating mode (automatically/manually)
- > Area 2: Number of last measurement data to show in diagram
- > Area 3: Dimensions of diagram axes

**Please note:** The illustrations shown above represent Rigamo Software V 3.2 Beta. The user interface of previous versions may differ. For further information, please refer to the documentation provided with the software.

## System Requirements

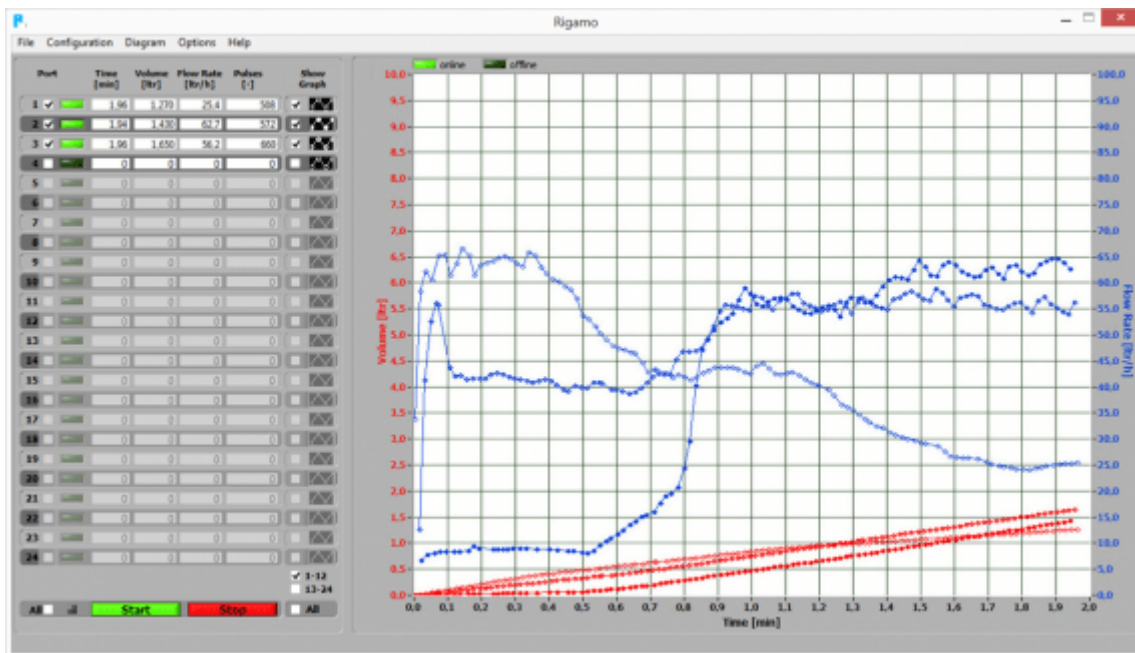
- › Gas meter with built-in pulse generator (MilliGascounter standard)
- › Digital Input Module »DIM« (option)
- › Licence (dongle) for requested number of connected gas meters
- › Operating system: Windows® XP / Vista / 7 / 8 / 10
- › Microsoft Excel® 2003 or higher for data export to Excel®
- › Recommended processor performance:  $\geq 1.5$  GHz
- › Random access memory (RAM):  $\geq 500$  MB
- › 2 free USB ports (1 port for data acquisition, 1 port for licence dongle)
- › Monitor 17" (optimised for monitor resolution of 1280x 1024 pixel or higher)

**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.

## Display Example

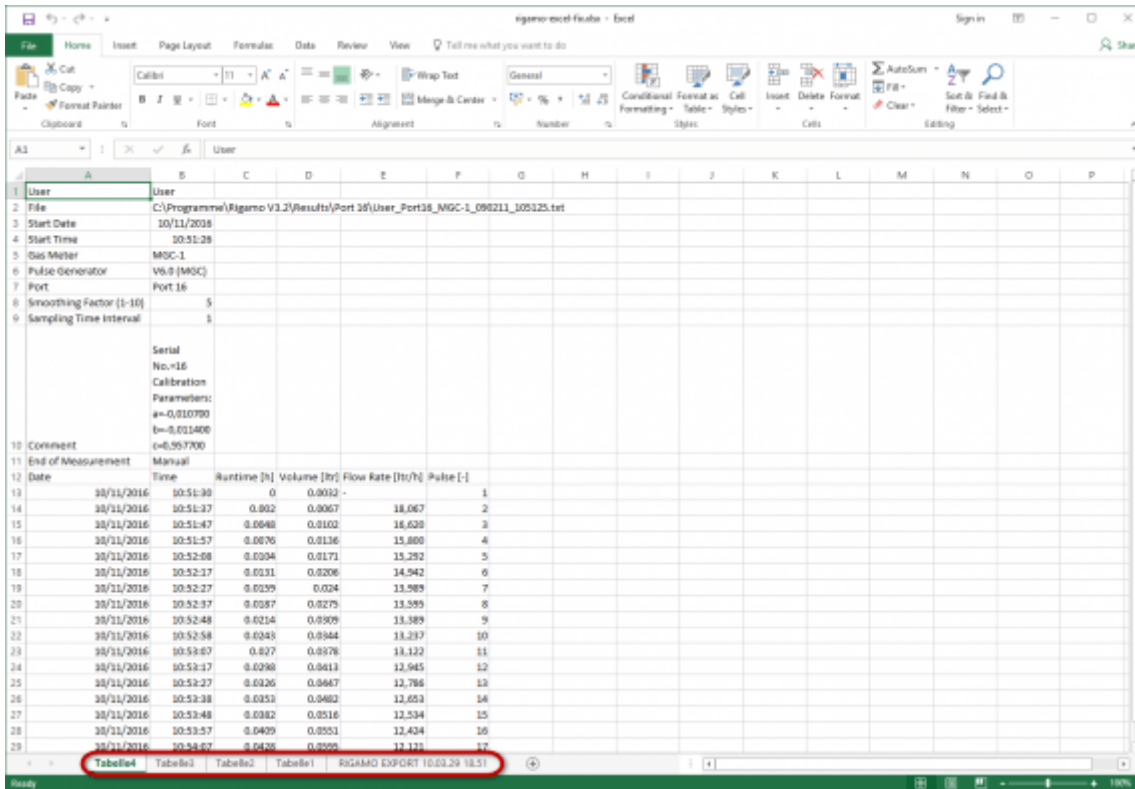
E. g. data acquisition from 3 gas meters; red graphs: volume; blue graphs: flow rates



# Data Export to Excel

System requirement: Microsoft Excel® 2003 or a later version

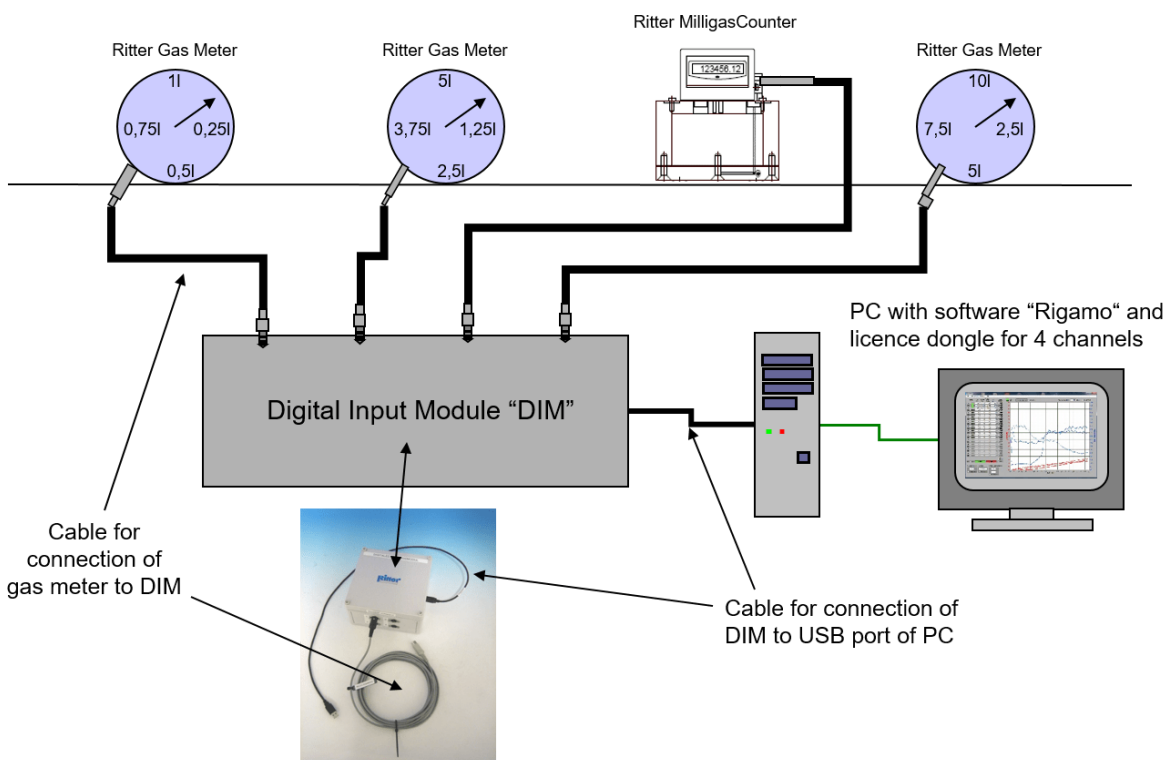
Export example of four data files:



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).

# Configuration Example

Schematic of a completed configuration of RITTER Gas Meter, Digital Input Module, PC and Rigamo (Example for connection of 4 gas meters)



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V 3.1 / Rev. 2019-03-27 / Subject to alterations.

The most recent version of this data-sheet can be found at <https://www.ritter.de/en/data-sheets/rigamo-software/>

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