RMGView^{GC}



OPERATING INSTRUCTION

Reliable Measurement of Gas



Read the instructions before starting work!



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	translation of the original German manual. Anyhow, this
	document may serve as reference for translations into other
	languages.

- **Remark** Please use in case of any uncertainties the German version as main reference.
 - **Note** Unfortunately, paper is not updated automatically, whereas technical development continuously advances. Therefore, we reserve the right to make technical changes in regard to the representations and specifications of these operating instructions. The latest version of this manual (and the one of other devices) can be downloaded at your convenience from our Internet page:

www.rmg.com

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1

Introduction

In this chapter you will receive general information on the manual and on the device.

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1.1 Motivation for the software



Fig. 1-1: Application example

You can manage several sites with the RMGView^{GC} software. For every site you can include **one** GC controller with a PGC9300. Using these Modbus addresses, data can be read from the device and data can be transmitted from the PC **(A)** to the device.

The example shows how three sites **(B, C, D)** can be managed with the RMGView^{GC} software. For every site, Modbus addresses **(E, F, G)** are set up using RMGView^{GC} to enable a connection to the devices.



With RMGView^{GC} you can:

- set up and manage several sites.
- assign one device (GC) at a site and manage it.
- read out the actual measured values (actual values) in real time.
- display values in table form, as diagrams, as graphics or in individual fields.
- request predefined lists that read out and show certain parameters from the device.
- request predefined plots that display the parameters in a diagram.
- create user defined lists and output them as reports.
- create user defined plots that display the parameters in a diagram.
- RMGView^{GC} automatically recognizes the firmware of the attached device. Only those parameters that are functional with the attached device are displayed.
- parameterize the attached device.
- create test reports.

1.2 About this manual

In this chapter you will receive information regarding the organization and objective of the manual and the knowledge prerequisites needed by the reader.

1.2.1 Trademarks

All the hardware and software names used in the manual may also be registered trademarks of third parties or under other brand protection. In this respect, the trade mark rights of third parties are to be respected.



1.2.2 Objective of the manual

The manual provides you with the information that is needed for trouble-free and safe operation.

The software is state of the art and conceived and programmed according to the recognized safety standards and guidelines.

However, hazardous situations may arise as a result of their use.

Possible hazards for:

• functions of the connected devices

For this reason, you may only operate the software as intended and in technically defect-free condition.

1.2.3 Prerequisite knowledge required

The manual assumes that the users are familiar with Microsoft Windows operating system and the operating elements, e.g. drop-down menus, buttons etc. MS Windows typical screens e.g. **Save As...** and their operating elements are not described in this manual.

1.2.4 Structure of information screens

The following information screens are used in the manual.

Notice

This warning screen informs you of potentially hazardous situations that can occur as a result of incorrect operation or human error. If these situations are not avoided, they can result in material damage to the machine or in the vicinity.



This information gives you tips on how to simplify your work. With this screen, you additionally receive further information on the product or the work process.



1.2.5 Abbreviations used

In this chapter of the manual, the abbreviations used are explained.

ca.	circa, approximately
as app.	as applicable
max.	maximum
min.	minimum
e.g.	For example
GC controller	electronic evaluation device (controller) of the gas chromatograph PGC9300 from RMG
	only GC as an abbreviation.

1.2.6 Symbols used

The following symbols are used:

1, 2,	Steps within a work operation.
1	Marks steps in an illustration that are described in the text.
(A)	Reference to a component (element) marked with a letter in an illustration.
A	Marks elements in an illustration. The arrow points to the element being described.
⇒	Cross reference to another part in this manual or in another document.
Print Screen	Switches, regulators, slides, buttons and other terms from the software are marked by bold text.

1.2.7 Validity

This manual describes the software RMGView^{GC}.

The softwareRMGView^{GC} is only a part of a complete site system. Please also observe the manuals of the other components of the site in order to guarantee safe operation.





2

Installation

In this chapter you will be given information on the system requirements for the PC, on the software installation and on making a connection to the device.

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2.1 System requirements

The PC must fulfill following specification:

- Operating system Microsoft Windows 7 (32 Bit and 64 Bit) and Windows 2010 (64 Bit)
- Min. screen resolution of 1024 × 768 pixel
- Communication takes place via "Modbus over IP". The connection via a crossover cable. When using a switch, the connection is made via a "normal" patch cable.

2.2 Files delivered

GC_101c.rmx	11/08/1016 08/23	RMOK Eater	1344.03
GC_101s.rmx	11.08.2016 08:23	RMOC Date	1.181 108
GC_101Lmma	11.03.2015 05:23	RMX-Eluter	1.144.83
gcteh.csv	09/09/2016 10:15	Microsoft Excel-CS-	62. KU
PEGRP32D.dll	17,30,2016 09,41	Anwindungserwitt	1.016.43
RMGViewGC.exe	04.10.2017 16:11	Anwendung	4 385 (3)
Og uninstall.exe	04.10.2017 16:15	Ailwendung	14.82
XCrashReport.exe	27.09.2017 1458	Anwendunia	605 KT

Fig. 2-1: Files delivered

You will receive various files on delivery of the RMGView^{GC} software. As an example the installation files and the associated rmx files in RMGView^{GC} 2.0.0.1 version are shown.





2.3 **Preparing devices for connection**

During installation, information on the COM port or the IP address will be required in order to make a connection between the software and the ultrasonic electronics.





As connection to the GC controller you may use the connection via IP address. For this the PC is connected to the Internet.

Determine connection data

 The IP address of the GC controller must be determined in position tree on the controller (see next figure). The IP address can be read in position 17.01.10 LAN-2 IP address.



O Preser	GC9300 Data Graph State Se	ervice User Dotails Arch	ives Log DSfG Fau	Its	<u></u>	
	selection	Name	Value	Unit	_	
A comment		LAN-1 IP-Mode	STATIC_IP			
Commence	a 17 Network	LAN-1 IP from DHCP	0.0.0.0		_	
	01 Addresses	LAN I Cohootosch	192.108.20.1			
Warning	02 DHCP Server	LAN-1 dat. Gataland	102 168 20 254			
	03 Services	I AN-1 DNS-Server	0.0.0.0			
Alarm	# 18 DSfG	LAN-1 Mac address	00-05-51-04-06-FF			
•	19 External I/O System	LAN-2 IP-Mode	STATIC IP			
	20 Fault and status	LAN-2 IP from DHCP	0.0.0.0		_	
	21 Date, Time 🛛 🗛	LAN-2 IP address	10.20.13.34	N		
	22 Archives, Storage	LAN-2 Subnetmask	255.255.255.0	13	121	
6	There is a family of the	1 sal h dat Catauras	10 00 10 1			
•_)						
				(HC	ME)	

A $\,$ To the right of A the IP address can be read, here 10.20.13.34 $\,$

Fig. 2-3: Reading the IP address on the touch screen of the GC controller



2.4 Installing software

A

In order to install the new version of RMGView^{GC} it is not necessary to uninstall the older version.

Starting installation

1 Double click here on the installation file e.g. RMGView^{GC}installer xxx.exe.

The window RMGView^{GC} X.X Setup opens.



Fig. 2-4: Agree to license contract

You must read the license contract and agree to it in order to continue with the installation.

2 Check the box I agree to the terms and conditions of the license contract.



3 Click the Install button.

The status of the installation is illustrated by an animated time bar.

The successful installation is displayed in the RMGView^{GC} **xxx Setup** window.



Fig. 2-5: Finish installation

4 Click the Finish button.

The installation is then completed.

- Connect PC
- 1 Connect the PC with the IP address of the device via the network.



2.5 Configuring the site and devices



- RMGView^{GC} start
- 1 Press the **Windows** key on the keyboard.
- 2 Click menu entry **RMGView^{GC}**.
 - A start screen will be displayed.



Fig. 2-6: Start screen

After the starting sequence the **Select Site** screen will be displayed.

RMGView^{GC} allows you to manage several sites.

You can install and monitor one GC controller at each site.





Fig. 2-7: Select Site screen

Assigning site names

After starting the RMGView^{GC} software, a site is shown in the **Select Site** window with the title **New Site 1**.

You can give this site a random name.

1 Click on **New Site 1** with the right mouse button.

The context menu is opened.

- 2 Click on the menu entry **Rename** and assign a name.
- 3 Confirm the name with the **Enter** key.

The **Select Site** window closes. The **GC Settings:** window **Modbus** opens.



0

Using the context menu you can start following actions:

- Menu entry New Folder: File sites in folders.
- Menu entry New Site: Create further sites.
- Menu entry **Delete Site**: Delete sites. The devices in the site are also deleted.

In this window you can create a first device and set up the connection via IP address.



Setting up a GC controller

ingi (Modbui-		*
Caming Arriteries !	Device_11111111	± ±
	Wetcos	
	1 maintaine (7	
	P Abbes 10.	20.12.34 2
	19 Pert Southy 202 (602	
	Passed revenues and of	3
	Partnets (201	4117 -
	Passed Indeed	4
Rimana		
		Appa Canut OK

Fig. 2-8: GC settings window: Modbus

- 1 Enter the Modbus address with which the device should operate.
- 2 Enter the IP Address of the GC controller
- **3** Password remote control:

<12345>

4 Passwort for archives:

<> (password is empty)

Finish set up 5 Click button Apply.

The **GC settings window** closes. The **Site Overview** - RMGView^{GC} window opens. Location and meter for the device are defined in this window.

2.5.1 ISet up-language and start window

- Activate the window for user options
- 1 Activate **Dashboard GC** window.
 - ⇒ Chapter 4.1, "Site overview" on page 47





Fig. 2-9: Menu entry select user settings

- 2 Click on menu **Settings** in the menu ribbon.
- 3 Click on menu entry User Settings.

The User Settings: User Interface menu bar opens.



Set language

er Settings : User Interface				×
User Interface CSV				
User data directory	C:\Users\R8328	7 Document	ts\RMGViewGC	-
use last folder if possible		F		
Start with		_		
I have idea	Site Overview	-		
Language	English	-		
Show Tool Tips (List)		2		
Show Column "Modbus Addr	es"	V		
Advanced Mode (Lists)		F		
Filter: Use Macro		17		
Enable DDE Server		F		
Always use this site, skip sit	e selector	Г		2
			and E	

Fig. 2-10: Set language

- 1 Open drop down menu **Language** and select the appropriate entry.
- 2 Click OK button.

The settings are saved.

Setting the CSV export

This menu offers:



1	2
deonal point	
don't open automatically	•
rt-	
UTF8	•
1%tvn%e 4	
Replacements: 36m: macro 36e: unit 36t: text 36t: position 4n: new line"	
	5
	t. dorit open automatically dorit open automatically (UTF8 968/966 4 Replacements: 968: unit 968: unit 968: unit 968: text 968: position Yr: new line*

Fig. 2-11: Setting a CSV file for export

- 1 Set the character for column separation.
- 2 Separating the decimal digits with a "." (point) or a "," (comma).
- 3 Display text with or without quotes.
- 4 The column header can be defined here:

The marking

%t\n%e

means (e.g.):

Line 1 presents the text (e. g. pressure), then you have a line break and in line 2 the corresponding unit. (e. g. bar) is displayed.

5 Press Ok to use the settings.



■ Set-up start screen

You can define a window as start screen that is displayed after the software is started. The windows that can be cued via the multifunction bar can be selected.

⇔	Chapter 3	3.1"0	perating	and	display	elements"	on page 26
---	-----------	-------	----------	-----	---------	-----------	------------

User Settings : User Interface				×
User Interface CSV				
User data directory	C:\Users\R8328	7\Documents	RMGViewGC	-
use last folder if possible		F		
		1		
Start with	Site Overview	•		
Language	English	•		
Show Tool Tips (List)		V		
Show Column Modbus Add	res"	F		
Advanced Mode (Lists)		F		
Filter: Use Macro		F		
Enable DDE Server		F		
Always use this site, skip s	te selector	E.		2
			Cancel	OK

Fig. 2-12: Set-up start screen

- 1 Open drop down menu **Start with..** and select appropriate entry.
- 2 Click OK button.

The settings are saved.



2.5.2 Enter user data

- Open window for site information
- 1 Activate Dashboard GC window.
 - ⇒ Chapter 4.1, "Site overview" on page 47



Fig. 2-13: Select menu entry Site Information

- 2 Click on menu **Settings** in the menu bar.
- 3 Click menu entry Site Information.

The Site information window opens.



Enter values

te Information			- 23
Nome	1		
Client	RMG	_	
Location	Beindersheim 2	Deutschland	2
image file for reports	1	3	1
		Cancel	OK

Fig. 2-14: Select menu entry Site Information

1 Complete fields Name, Client and Location.

⇒ Chapter 4.17, "Information on installation" on page 69

- 2 Open drop down menu **Location** and select appropriate entry.
- **3** You may chose an image that will be displayed at the protocol as a logo. Press the button "..." and choose the appropriate image in the directories.
- 4 Click OK button.

The settings are saved.



2.6 Ensuring connection

In the **Site Overview** you can view the connection status for the installed Modbus addresses. Usually the connection can be made without any problems.

Switches
** m



For a successful connection

The connection status to the device is shown as (A).



The device is operating correctly. There are no errors.



A warning exists.



An alarm is pending.



There is a disconnection between the PC and the device.

Open details on connection problem

You can find more information on the problem occurring in the **Errors** window.

⇒ Chapter 4.8, "Errors" on page 60

1 Click Errors button.

The **Errors** window opens. The list informs you about the actions for setting up connections.



- Fix connection problems
- **1** Check physical connections.
- **2** Check the Modbus address settings, if necessary, recreate Modbus address.
- 3 If the connection problems still exist, contact RMG service.
 - ⇒ "Manufacturer" on page I



3

Software overview

In this chapter you will be given detailed information regarding user interface elements as well as functions and operating capabilities of the software.

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3.1 **Operating and display elements**

In this chapter you get an overview of the user interface for $\mathsf{RMGView}^\mathsf{GC}.$

You will find the description of the individual windows and functions under:

⇒ Chapter 4, "Software description" on page 45

Values Image: Set Direction of the set of	Expert Mode
Proce_11111111 Proce Pr	í
Column 1 Dolumn 2 Column 3	î
Column 1 Dolumn 2 Column 3	
Column Temperature °C 70.00 69.99 70.00 69.99 100 0.07 bractor Temperature °C 70.00 <th></th>	
A Header B Menu bar C Multifunction bar	
Fig. 3-1: Dashboard window	
Dishcoard - Divice_11111111 - Splem_bindentielm - RM2/rew00	D X
Fig. 3-2: Header Header The header (A) shows the name of the window opened. description of the window can be found under this name is chapter "Description of the software". The content of the l for some windows changes depending on the lists, plots oparameters selected.	The in header or
File Westma Settings Tools Nee	Q.
Fig. 3-3: Menu bar	
Menu bar The menu bar (B) contains various menus with which the functions and windows can be called up.	е
Using the menus you can open following windows/functio File 	ons:

RMGView^{GC}



Reports

Conduct device check. Output test reports as log file. Open the parameter list and the list of parameter changes. Depending on the license settings, there is the optional function of creating user-defined logs or changing existing logs.

Settings

Enter user information for the device. Show or hide **Select Site** window for software start. Set communication settings for the device, change or add a new device for the selected site. Switch software to another language. Set start screen for the software to start. Show or hide tool tips display. Show or hide macro names for filtering certain data. Open the password list for the selected device, change, create and delete. Change current license settings.

Tools

Setting the GC controller.

Help

Open the operating instructions as a PDF file. Open the RMG website. Request information on the software.



Fig. 3-4: Multifunction bar

Multifunction bar The multifunction bar comprises single buttons.

Using these buttons you can access following data:

Site Overview

List of devices that are set up for the selected site. ⇒ Chapter 4.1, "Site overview" on page 47

Dashboard

Request values and status of the selected device. The values are displayed in graphic form.

⇒ Chapter 4.2, "Dashboard" on page 48

Values

Display parameter, readings or display values. ⇒ Chapter 4.3, "Values" on page 50

Lists

Request lists for the GC controller.

 \Rightarrow Chapter 4.4, "Lists" on page 52

Plots

Request lists for the GC controller.



Open predefined or user defined plots. Create and change user defined plots.

⇒ Chapter 4.5, "Plots" on page 54

Raw data

Request chromatograms of selected columns. The data is displayed with the help of a plot (graphic illustration of the values). Create an image file of the plots.

⇒ Chapter 4.6, "Raw data (chromatogram)" on page 55

Logs

Request list of actions, ParameterLog and EventLog, that are carried out via the software.

⇒ Chapter 4.7, "Logs" on page 56

Errors

Request list of errors and warning messages that have occurred.

⇒ Chapter 4.8, "Errors" on page 60

Remote control

Activating the button opens a window in which the touch screen of the GC controller is displayed in the window of the RMGView^{GC}. With mouse clicks you can make the same changes as on the touch screen of the GC controller when entering with the operating pen.



Fig. 3-5: Remote control



Password Input

Log into password-protected user level.

⇒ Chapter ð, "Chapter 3.3, "Status icons" on page 31" on page 60



Fig. 3-6: Dashboard window

GC controller preselection (A)	The information on the selected device such as live values, functions or parameters are shown in the display area.
Display area (B)	The display area shows the contents of the windows that have been opened using the multifunction bar.
Status bar (C)	The status bar gives information on the current status of the device. (green = ok; red circle with a cross = error; red cross with blue brackets = not connected).
	You will find possible symbols for the actual status here: ⇒ <i>"Status icons" on page 31</i>



Standard buttons 3.2

The following buttons are a feature of many windows. Their functions are the same in all windows.



Cancel the current entry. The entered values will not be saved.

Confirm the entered value. The values will be saved.



The current screen will be saved as a jpg file.



Create a new, user-defined list or plot.



Delete user-defined list or plot.



Process user-defined list or plot.



Export data.



Import data



Move an entry down a list.



Move an entry up a list.





Record values or list and stop recording.



Refresh screen.



Clone window. The selected window will be opened a second time.



Enlarge view of plot.





Display plots in original size.

3.3 Status icons

The following icons are a feature of many windows. Their functions are the same in all windows.



Calibration switch of the GC controller is closed. The parameters of the GC controller *cannot* be programmed.



Calibration switch of the GC controller is open. The parameters of the GC controller can be programmed.



Connection between PC and the device is OK.



There is a discontinuity between PC and device.



The device is operating correctly. There is no warning.



A warning exists.



There is a defect.



The element (list or plot) is protected and cannot be changed.



No password has been entered. Device is password-protected. Parameters that are protected by the password *cannot* be changed.



The password has been entered. Password-protected parameters can be changed.



Operator

The user level **Monitor** is active. ⇒ "User levels" on page 33

The user level **Operator** is active.





The user level **Configurator** is active.

The user level **Expert Mode** is active.


3.4 User levels

To avoid incorrect operation the RMGView^{GC} software is divided into different user levels.

These user levels are assigned to certain user groups.

0	Not all the contents and functions of the RMGView ^{GC} are displayed for every user group.
	Only after you have entered a password for the user level are the information and functions for this user group displayed and can be operated.
	The description of the windows and menus indicates which user level is enabled in the respective windows or menus.
	⇒ "Software description" on page 45
	The following user groups are assigned to the user level.
All user groups	• Monitor
	No password required. This user level serves to display the contents of the windows. The data cannot be processed.
Operating personnel	• Operator
	Password for operator required. The operating personnel can create user-defined lists, change parameters and delete user-defined lists.
Maintenance/setup personnel	Configurator
	Password required for Configurator. Set up all access rights and password for operating personnel.
Service personnel	Expert mode
	Password for Expert Mode required. All access rights for operating personnel, maintenance and setup personnel. In addition the licenses can be managed.



3.5 Structure of the software

The following chart shows the structure of the RMGView^{GC} software. Every field represents a window.



Fig. 3-7: Structure of the software

The start screen can be specified. The following windows can be selected as start screen:

- Site Overview
- Dashboard
- Lists

A

- Plots
- Raw data
- Logs
- Errors
- Remote control
- Input Password
- ⇒ Chapter 2.5.1, "ISet up-language and start window" on page 16

34





Fig. 3-9: Structure of multifunction bar





Fig. 3-10: Structure of lists



Fig. 3-11: Structure of plots





Fig. 3-12: Structure of raw data



Fig. 3-13: Structure of reports menu





Fig. 3-14: Structure of menu settings



Fig. 3-15: Structure of tools menu





Fig. 3-16: Structure of help menu



3.6 Data / readings / parameters

The data / readings / parameters are stored in a position tree. Via the position (numbers, separated by dots, are indicating the chapters) data / readings / parameters can be addressed.

The data / readings / parameters can be addressed using the display of the GC controller or via the RMGView^{GC} software and can be selected for tasks such as user-defined lists.

➡ Chapter 4.14, "Site Specific, User-Defined List (plot)" on page 66

Example Parameter structure

Values	Devce_111111	1.2.1.0 Concent	nabion current	С	D	E
Train	oc.	Circlinde	Name	Viller	200	Moliny Address
() 100 DESIDENNE	Denne_HIHHH	199	laterpie R		distants -	ana
1278 Currint values	Davine_mmmm	112	Network Concernment		In sur sure.	842
228 Aleas barnel	Device_1001001	1/1	Cardon Electric		1 Mail martin	104
238 Tees caned	Devoie_ receiver	23.8	thur		1000	100
abl. Breat, June	Deven_fittett	216	Propage		401.00	100
\$527 Sites3 (dilet	Davon (THINK)	210	an-Dahara;		100.00	101

Fig. 3-17: Structure of a parameter

Parameters are usually structured as follows:

- Position tree of parameters 2.1.1 (A)
- Name of the parameter (B), e. g. nitrogen.
- Value that the parameter is to query or determine (C), e. g. volume part.
- Assignment of the unit (D), e. g. here: mol %.
- Assignment to the Modbus address (E), e. g. 8000



3.7 Help function



Fig. 3-18: Help menu

Using the Help menu, you receive following information:

- details of the software version and the license number
 ⇒ Chapter 4.21, "License Info" on page 75
- Software manual as a PDF file
- Website www.rmg.com



3.8 File types

The following table describes the file types (file suffixes) that are needed to work with the RMGView GC software.

CSV	List with recorded values of parameters, events or plots: The list can be imported for processing in a spreadsheet program.
RPR	File contains a template for generating PDF files.
RMX	Software system files RMGView ^{GC} .
EXE	Executable files.
HTML	Output format for a RPR file, can be opened in any browser.
PDF	Output format for a RPR file, reports, graphic representation of readings (plots) or test certificate. This file can be opened by every PDF viewer.
JPG	Image file for graphics of readings (plots).
BIN	Output file of chromatograms of the GCs.
XML	File stores the RMGView ^{GC} settings, e.g. language settings, screen configuration.



3.9 Password

With a password you will be given access to protected user levels in the RMGView^{GC} software. On delivery of the RMGView^{GC} software, you will have received a password from RMG for every protected user level.

Should the passwords no longer be available, then request these from the RMG service.

⇒ "Manufacturer" on page I

A

A

The user with the password to the user level **Configurator** can generate passwords with user level assignment.

➡ Chapter 4.19, "Password List" on page 72

3.10 License

With the help of the license you can enable the functions of the report editor, characteristic curve correction and header data for the raw data. With the report editor you can compile reports according to your requirements.

Training by RMG is required for working with the report editor.

As an alternative RMG offers the service of creating customerspecific reports.





Software description

This chapter contains information on fields, sectors and other contents of the windows.

Operating system windows, e.g. Save as are not described.

You will find following information with respect to the windows:

- Name of the window.
- Details on the window path.
- Illustration of the window.
- · General description of the window's functions.
- Field elements in the window.

Depending on the user level certain contents and functions of RMGView^{GC} are displayed or hidden.

⇒ Chapter 3.4, "User levels" on page 33

Notice

A

The RMGView^{GC} software offers the possibility to create, organize and present data and parameters (and additionally calculated parameters) of the GC controller for the gas chromatograph PGC9300.

- Note that certain parameter settings may change the measuring behavior of the GC.
- Since usually GC controllers and RMGView^{GC} are used together it will not be distinguished between individual parameters of these units.



Contents

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4.1 Site overview

RMGView^{GC} > *Select Site* > *Site Overview*

Tools Help							-		e e
(?) Dashoeard		Values	🗄 Lists	Please .	Raw Data	Lops 🛛	Etters	Remote control	Expert Mode
eim - Site Overvie	ew								
the Number	Status	Hs 51		Hts 52		He 53		Hs S4	Switches
11111111	8	11.608-kWh/m	ig	11.605 k/mm3		0.000 KW8/m3		0.000 kWh/m3	1 ² m
	Elem - Site Overvie that Number	Elemination of the second seco	Total Hale Itaathoeard Itaathoeard eim - Site Overview taxit feamber State Feamber State Feamber 1111111 I11200 KWhite	Total Heie Clashboard Image: Values eim - Site Overview Itel Hunder State Hunder State Killes Hill Site Hill Site Hill Site	Total Heir Image: State Coverview Image: State Coverview Italia Reamber States Italia Reamber States	Total Hele Chashboard Image: Values Image: Links Prints Image: Raw Data alm - Site Overview Ital feamber States Hele S2 their Nember States Hele S2 11111111 Ital food kWhim2 Th 505 Myterm3	Tools Nee	Total Nee	Total Neb Chash-board Cha

Fig. 4-1: Site Overview

In the Site Overview window you can manage the GC controller.

- GC Name of the GC controller. By clicking on an entry, you can switch to the dashboard of the GC.
 ⇒ "Dashboard" on page 48
- **Status** Connection status between GC and RMGView^{GC}.
 - ➡ Chapter 3.3, "Status icons" on page 31
- **Calorific value** Calorific value of the actual gas.
 - **Switches** Configuration options for following switches:
 - Calibration switch
 - Password for the PC
 - ⇒ Chapter 3.3, "Status icons" on page 31



4.2 Dashboard

RMGViewGC > Select Site> Dashboard



Fig. 4-2: Dashboard

In the window **Dashboard** you can display the current measurement values of the GC.

Status Display Symbols for the user-defined warning and alarm signals.

- Power
- Connect
- Warning
- Alarm

PGC measuring element Display for operating states of the GC:

- Column temperature
- Injector temperature
- Column pressure

48



Valve control	Status of the valves of the individual streams (there might be up to 4 different measuring positions / gases), the calibration and reference gas
	Valves:
X	• green = open
X	• blue = closed
	Gases:
S1	 green = gas to be analyzed
S3	 gray = not active
Ref	 yellow = measurable, but isn't analyzed permanently (external check)
Pressure	Pressure of the gas is controlled and displayed.
Site information	Site position, number of the measuring element, operating status of the GC.
Status calibration switch	Displays the status of the calibration switch.
Codeword	The GC allows further setting options, which can be selected after being enabled via code words (see GC manual).



4.3 Values

RMGView^{GC} > Select Site> Values

Reports Settings 1	bolk	Help											_										٦,
Site Direntew (3	Dashboard	101 010	Values	=	Lists	Ł	Plots	*	RawDa	•	Ê.	Logs	8	Eng	• <	ġ,	Remote o	ontrol		<u> </u>	Expert	Mod
wice_13111311 •	8																						
/alues		Device_11	111111	210	Concen	tration	urrent																
Fake 1	ī	GC		Coo	tinate	Nam								Val				U	nit .	Mo	trus Ad	dress	ľ
0 1 0 0 0C9300 mode	•	Device_11111	11	2.1.1		NED	-											4701 m				900	
2.0.0 Current values	11	Device 111111				in in												AL 445. m					
2.1.9 Concentration of																							2
-230 Times current		Device_111111		2.13		Caro	se Liconde											1501 m	07%			- 200	1
0 3.0.0 Stream 1 values		Device_111111	11	214		the	*											0.000 m	075			1500	25
8 4.0.0 Stream-2 values		Device_THITH	ić.	2.53		Prop	ine											6.015 -	100			900	ni.
0.5.0.0 Stream 3 values		Device 111111	6	216		60-5	ine.											0.455 m	100			801	
6 6 0 0 Stream-4 values																							
0 7.0.0 Ker, gas values		Device_111111	17	23.3		1-84	ane											0.400 m	07%			201	12
0 90.0 Calbration results		Device_111111	11	214		nep-l	Ventanie -											\$ 101 m	015			101	14
0 10.0 0 Specialities		Device_111111	11	2.1.5		No.P	entere											0.000 m	276			001	15
0 11.0.0 Components param		Device_111111		21.1	0	o-Per	tint											0.000 m	07%			801	4
0 13.0.0 Calculation paramet		Device TITLE		211		10.												0.000				800	
E 14.0.0 Ges analyzer unit																							
0 150.0 in and Outputs		Device_111111	a	23.3	3	o-fig	are											0.000 m	offic			992	12
8 16.0.0 Servel porte		Device_111111	1	2.1.6	2	0-110	ines:											0.000 m	076			802	24
0 17.0.0 Network		Device_111111	ii.	21		n-0d	- 676											0.000 m	106			002	26
B 19.0.0 External #O System		Device TITTE	11	211	5	p-No	-											0.000	-				į,
0 20.0.0 Fault and status																							
- 21.0.0 Date, Time		ofvice_mm		-11		1995	-											0.000 m				890	10
22.0.0 Archives, Storage		Device_THITH	10	2.3.1	7	Heiki	1											0 000 m	07%			883	12
24.0.0 Dely values		Device_111111	ei -	211	8	Hydr	open											0.000 m	275			863	34

Fig. 4-3: Values

In the **Values** window you can have the actual data, measured values and parameter displayed. The data, measured values and parameter are read out via the RMGView^{GC} from the GC.

- Values List with predefined data, measured values or parameter lists. The parameters associated can be displayed in the right-hand window area.
 - **Filter** Filter panel for searching for data, measured values or parameters, e.g. temperature. For the search you can enter keywords or parts of keywords but no wildcards (*, ?).
 - **GC** Name of the GC controller of the gas chromatograph.
- **Position** Memory cell for the parameter in the device. The parameter is stored in a directory tree. A parameter can be addressed using numbers (see above).



	The parameter can be called up using the Lists window and selected for tasks e.g. creating user-defined lists. ⇒ <i>"Lists" on page 52</i>
Name	Description of the parameter to be measured.
Value, unit	Numerical value and unit of the parameter to be measured.
Modbus address	Address of the communication protocol between PC and GC.



4.4 Lists

RMGViewGC > Select Site > Lists

April: Lating Sam In	•		-			-		
Des Chernese (?) Dans	ment 🔝 men	10 Line	1	ter Ban Deta	List.	O Deser	() Banda come	E Feether
a								
đa.	Device_111111113	est Liste						• /
	0C	Cordiste	-			-	(test	Bistine Address
Married Married	Gauss, mmm)	2941	Pers reseri					
Handing Values 4	Desine_Servers	28.014	544844				100	
water (Spare Pet Dicc)	Birde, morei	254.78	Congestion on 1					
acidat (Haniar) (Instance) 🚆								
d Levenier 4								
ur) a u								

Fig. 4-4: Lists

In the Lists window, you can manage the predefined and userdefined lists with the system parameters in the left-hand window area. One of the lists can be selected with a check mark at the bottom at (1) (A), this list is displayed by default the next time you open RMGView^{GC}.

In the right pane, you can view the parameters of the selected list. Use lists to compile the parameters to be read from the device.

Site specific list. A list can contain predefined or user-defined system parameters:



Lists Site specific list. A list can contain predefined or user-defined system parameter:

• Site-specific = Site-specific lists are configured with parameters for a selection of certain types of a GC in a site.



- Predefined lists are marked with the symbol of a locked padlock and cannot be changed or deleted.
- User-defined lists are shown without a symbol and can be changed or deleted.
- **Filter** Filter panel for searching for data, measured values or parameters, e.g. temperature. For the search you enter keywords or parts of a keyword. You cannot use wildcards.

The columns are described in following position:

⇒ "Values" on page 50



4.5 Plots



RMGViewGC > Select Site > Plots

Fig. 4-5: Plots

In the **Plots** window you can show the trend as a graphic of the readings listed. Using the drop-down menu you must first select the device for the measurements.

In the left window you can select a parameter, e.g. temperature. In the right hand window sector the values measured for the parameter can be listed and displayed in a trend graphic. The button at the bottom left (1) allows you to set the plot as default during startup.

Using the diskette symbol you can export a screen shot of the graphic displayed, as a jpg file.

⇒ "Save Plot as jpg Image" on page 68



4.6 Raw data (chromatogram)

RMGView^{GC} > Select Site > Raw Data



Fig. 4-6: Raw data

In the **Raw Data** window you can see chromatograms of the different streams.



4.7 Logs

RMGViewGC > Select Site > Logs

In the **Logs** window you can manage all RMGView^{GC} reports.

In the left window sector you can select a protocol type:

- GC History = Overview of all reports created.
- GC Parameter Log = Reports of all changes of parameters.
- GC Event Log = Reports of all events that have occurred.
- Modbus Messages = Reports of the connection status.

In the right-hand window sector the reports in the report types can be displayed.

4.7.1 GC History

The **GC History** window all reports, changes and modifications created since the last login can be displayed.

Logs - Device_111111111 - Seiter	Beindenheim - RMG	ViewSK			_				X
Ste Overview	Dashboard	Values 🗄	Lista 🛃 P	tots 💆 Raw Data	E Logs	Errors	Remote control	2 B	ipert Mode
Device_11111111 💽 🜌									
Logs	GC History							8 3	0 1
THE Healthry -		Film	₩ Film	Y Filler					Ŧ
GC Paralleland Log GC Event Log Hottous Handwayes	Timo 16/16(2017 16:37:52	60 (Ad. Device_11111111	User RMS Experi	Event 2 Language (Language,)) skilvleker English ne	e value German			

Fig. 4-7: GC History

Time Time stamp of the device for which a protocol entry was created.



Operator Name of the user who caused an event.

Event Message for which a protocol entry was created.

4.7.2 GC Parameter Log

In the **GC Parameter Log** window you can display the reports for all parameters.

Logs - Device_111111111 - Set	them" Devices them - I	020Viewoc					- 0
Site Oversitew (2 Dashboard	Values	≣ une 12	Plots He Raw Data	🖹 Logs 🔗 Error	s A Remote control	L Expert Mo
NICE_1111111							
ogs	Device_11	111111: GC Para	meter Log				(
OC Hittery	Tene	Coordinate	Name	Old Value		ew Value	
GC Parameter Log	15.05.2017.10	18:58 12:1.9	neo-Pertana	0.0500		0506	
Modbus Messages	15.05.2017.10	19:24 12:1.10	so-Pentane	0.0000	0	5497	
	15.05.2017 10	20.14. 12.1 11	n-Pentane	0.0000	0	0500	
	15.05.2017 10:	20.32 12.1.12	C8-	0.0000	0	0510	
	15.05.2017 10:	21.16 12.1.22	Hs set value	40.057		128	
	15.05.2017 10:	21:29 12:1.23	SD sel vaue	0.80541	0	80671	
	15.05.2017 10:	25:54 13.11.2	Unit painrific value	Mule0		Anvieù.	
	=5.05.2017 10	27.19 1.0.1	Node of operation	AUTORUN	0	RINO-KALIB	
	15.05.2017 11:	22.53 1.4.1	Blutistream node	AUS.	1		
	15.05.2017 11.3	22.12 1.1.7	S-3 Measurements	1	0		
	15.05.2017 11.3	22,17 1.1.9	S-4 Measurements	9			
	16.05.2017 10:	99:23 54.1.5	Chrpm-file FTP	KENE		OLEN .	
	16.05.2017 11:	22:25 54.1.5	Chrpm-file FTP	HOLDN	40	(M	
	22.09.2017 16.	22-16 17.1.6	LAN-2 P-Mode	AUTO_R		ISTE_P	
	22.09.2017 16	25.09 17.1.10	LAN-2 IF address	192.168.20.2	8	0 20 13 34	
	22.05.2017 16	50.31 17.1.12	LAN-2 def. Galarie ay	192.168.29.254	4	0.20.13.1	
	25 09 2017 15	43.51 29.0.16	Gás shalyzer ne		1		
	28.09.2017 14	35.18 14.1.5	Chron-file FTP	KENE	н	OLEN .	
	29.09.2017 11	00:42 29.0.16	Gas analyzer no	10	1		
	16.13.2017 10	59.49 22.0.8	Det eventing	10		13	

Fig. 4-8: Protocols of the parameters of the selected device

Time	Time stamp when a parameter change was logged
Position (Coordinate)	Memory cell for the parameters in the device.
Name	Identifier of the parameter.
Old value	Value no longer currently valid.
New value	Currently valid value.



4.7.3 GC event log

In the **GC Event Log** window you can display the reports for all occurring events.

Logs - Device_11111111 - Syste	m_Beindersheim - RM	NGV invice							- a x
File Reports Settings Tool	e Hap			-			_		6
Site Overview (?)	Dashbeard	Values	E Lista	Rep 1	Raw Data	Logs	 Entra 	Remote careol	Expert Mode
Davide_11111111 • 🖬									
Logs	Device_1111	11111: GC E	vent Log						0
OC Hellory	Tene	Type	ante:						
SC Free Lin	58, 19(2017 10:36	45	Event log deleted						
Stomas Herosages									

Fig. 4-9: Protocols of the parameters of the selected device

Time Time stamp when an event was logged.

Type Type of event,

e.g. error:

- + coming error (this error is actual active)
- going error (this error happened since the last activation but isn't active in the meantime)
- **Info** Additional information on the event.



4.7.4 Modbus messages

In the **Modbus Messages** window you can display the messages of the status of the communication protocol.

O Loga-	- Device_11111111 -	System	Beindersheim -	RMGVie	with,									×
rie a	eporta Settinga	Toole	HID											6
0	Site Oveniew	(M)	Dashbeard		Values	E Use	Patr	Raw Data	Logs	 Errors 	Remote control	<u> </u>	Eiperth	lode
Device_	munu .													
Logs			Modibus M	essag	95									
ACC He	Mary .		Tere		6C		Message							
OC EX	ent Lite		101102017 10	30.45 AU	Device_111	11111	Socket connected t	o 10 20 11 54 port 542						
Here	up Mennagen		10/10/2017 10	2249.43	Device_11	11111	WIDOW ON							

Fig. 4-10: Messages to the status of the communication protocol

Time Time stamp of the device for which a protocol was created.

Message Messages on the status of the communication protocol.



4.8 Errors

RMGViewGC > Select Site > Errors



Fig. 4-11: Errors

In the **Errors** window you can display the warnings and error messages.

Message Status display with messages about warnings and errors. ⇒ Chapter 3.3, "Status icons" on page 31



4.9 Remote control

Activating the "Remote control" button opens a window in which the GC controller's touch screen is displayed in the RMGView^{GC} window.

In addition, the illuminated LED on the front panel is also displayed.

Notice

With mouse clicks, the same changes can be made as on the touch screen of the GC controller when entered with the stylus pen.

The GC-Controller can thus be operated conveniently on the screen!



Fig. 4-12: Remote control



4.10 Password Input

RMGViewGC > Select Site > Multi-function Ribbon > User Symbol

assword Input		X
Monitor	c	
Operator	c	-
Configuration	(*	Password
Expert Mode	C	
	ОК	Cancel

Fig. 4-13: Password Input

In the **Password Input** window you can log-in for a user level. Depending on the user level you have extended access to $\mathsf{RMGView}^{\mathsf{GC}}$.

A

Depending on the user level certain contents and functions of RMGView^{GC} are displayed or hidden.

Radio button user groups

Radio button for selecting the user groups.

- Monitor
- Operator
- Configuration
- Expert mode

Further information on the possibilities of the user groups can be found here:

- ⇒ Chapter 3.4, "User levels" on page 33
- **Password** Entry field for the password.

As a default setting you may use the following passwords:

- configurator: RMGGC-P
- expert: **RMGGC-E**



4.11 Record data

RMGViewGC > Select Site > Lists > Filled Circle

RMGViewGC > Select Site > Values > Filled Circle

In the figures, which you may see if you activate one of two links above, a small black circle on a light-grey square can be seen in the upper right corner. If you click on it with the mouse, the following window is opening.

Record Data		23
File Time Base 1		-
	Cancel	œ

Fig. 4-14: Record data

In the **Record Data** window you can record the trend data and save it in a file.

File Storage location and name of the file.

Time Base Recording intervals of the trend values.

As soon as the entries in this field are confirmed with "OK", the recording starts. This is indicated by changing the circle to a square. At the same time, a clock is running, which indicates the duration of the recording.

By clicking on the square the recording ends.



4.12 Edit list (Creating a new list)

RMGViewGC >Select Site > Lists > Select List > Pencil Symbol

RMGViewGC > Select Site > Lists > Plus Symbol > Select Type > OK Button

TestListe				
Select Value			List Content	
latrix Version 101	•		Matrix version	*
Search for Value	Y		Gas analyzer no	
1.0.0 GC9300 mode	^			
- 2.0.0 Current values				-
€- 3.0.0 Stream-1 values				
+ 4.0.0 Stream-2 values		Aud 🕨		W
E- 5.0.0 Stream-3 values				
€-6.0.0 Stream-4 values				面
1. 7.0.0 Ref. gas values				
⊕ 8,0.0 Cal. gas values				
E-10.0.0 Specialities	- 22			
11.0.0 Components parameters				
12.0.0 Calibration parameters				
13.0.0 Calculation parameters				
III- 14.0.0 Gas analyzer unit				
E- 15.0.0 In- and Outputs				
16.0.0 Serial ports				
⊕ 17.0.0 Network	4			

Fig. 4-15: Edit list

In the **Edit List** window you can process the parameter lists for the ultrasonic gas meters or create new ones. Using the parameter readings reports and maintenance reports can be created. You can reuse the parameter lists for devices of the same type.



	The elements of the window are shown in the following position.
	⇒ "Site Specific, User-Defined List (plot)" on page 66
	In addition following fields are displayed:
List Name	Identifier for self-defined list.
Select Value	Select parameters for the self-defined list.

4.13 New User-Defined List: Select Type

RMGViewGC > Select Site > Lists > Plus Symbol

lew User Defined List: Select Type		×
 Show values for selected GC Type is universal 		
C Show Values for all GCs Type is universal		
C Show values for multiple, select Type is site specific	ctable GCs	
Generate list of parameters w C in case of upgrade from matrix Type is universal	hich have to be programmed version 1 to version 2	
	L.	
Matrix Version 1 (older)	101]
Matrix Version 1 (older) Matrix Version 2 (newer)	101]

Fig. 4-16: New User-Defined List: Select Type

In the **New User-Defined List: Select Type** window you can create a new parameter list. Using parameter lists the values measured in the device can be read out.



• Framed field: Is only available for user level service personnel.

4.14 Site Specific, User-Defined List (plot)

RMGViewGC > Select Site > Lists / Plots > Plus Symbol > Select Type > OK

ist Name Test Liste			-	
Select Value			List Content	
latrix Version 101	•		Matrix version	*
Search for Value	Ŧ		Gas analyzer no	
⊕-1.0.0 GC9300 mode	^			-
€-2.0.0 Current values				
3.0.0 Stream-1 values		144 B		
E-4.0.0 Stream-2 values		700 P		
E-5,0.0 Stream-3 values				
€-6.0.0 Stream-4 values				10
€ 7.0.0 Ref. gas values				
€ 8.0.0 Cal gas values				
9.0.0 Calibration results				
10.0.0 Specialities				
11.0.0 Components parameters				
12.0.0 Calibration parameters				
13.0.0 Calculation parameters				
14.0.0 Gas analyzer unit				
E 15.0.0 In- and Outputs				
16.0.0 Serial ports				
17.0.0 Network	4			

Fig. 4-17: User-defined list

In the **Edit List** window you can compile self-defined lists of parameters or measurements or self-defined lists of parameter



	plots Trend overviews are created using the values read out for the parameters or the values measured. You can reuse the parameter lists and parameter plots for devices of the same type
Name of the plot	Label for plot.
Select value	Select parameters for the plot graphic.
Filter panel (search for values)	Text panel to filter the list of parameters.
	Values in the plot / list
Name	Parameter label for the plot.
Minimum	Minimum value for the parameter in the plot.
Maximum	Maximum value for the parameter in the plot.
Color	Name of the color for the graphic in the plot.
Line Thickness	Line thickness in pixels.
Text	Parameter in the self-defined list.

4.15 Color, Line Thickness

RMGViewGC > Select Site > Raw Data > Pencil Symbol

In the **Color, Line Thickness** window you can configure the graphic display of the trend curves for individual ultrasonic paths.



name	Color	Line Thicknes	55
Chromatogram 1	Date	ί.	4

Fig. 4-18: Color and line size selection

Name	Name of the chromatogram.
Color	Specification of color.
Line Thickness	Line thickness in pixel.

4.16 Save Plot as jpg Image

RMGViewGC > Select Site> Raw data > Diskette Symbol RMGViewGC > Select Site > Plots > Diskette Symbol



Fig. 4-19: Save Plot as a jpg Image

In the **Save Plot as jpg Image** window you can export the current display as a jpg image.

x Pixels Width x height of the image in pixels.


4.17 Information on installation

RMGViewGC > Select Site > Settings > Site Information

e Information			23
Name	Ĩ.		
Client	RMG		
Location	Beindersheim	Deutschland	12
image file for reports	Í		LO-
		Cancel	0K

Fig. 4-20: Site information

In the **Site Information** window you can manage the information on the client and the location of his site.

- Name Station name of the site.
- **Customer** Name of the customer.
- **Location** Location of the site.



4.18 GC settings

RMGViewGC >	Select Site >	Settinas >	GC Settinas
1 11/0 110/100 2	00/001 0/10 2	ooungo >	CC Counigo

GC Settings : Modbus			×
Device_11111111	Device_11111111 Modbus		± ±
	Modbus Address IP Address IP Port (mostly 502) Password remote control IP port remote control Password Archives	0.20.13.34 502 (***** (4831) (******	Mode a
Rename			
		Apply	Cancel OK

Fig. 4-21: GC Settings

In the **GC Settings: Modbus** window you can configure the GC's in the site using the tabs.

In the left window sector you set the GC (the site) that you intend to configure. Here you may also rename it.

In the right window sector you may find the tabs with the configuration setting of the GC.

The tabs for the configuration settings for the ultrasonic gas meters and an overview of the limit values for warning and alarm signals are in the right window sector.

⇒ "Modbus tab" on page 71

- **Import** This button can be used to import the configurations from a file.
- **Export** This button can be used to export the configurations to a file.



4.18.1 Modbus tab

GC Settings : Modbus				×
Device_11111111	Device_11111111		± ,	t
	Modbus			
	Modbus Address	1	Modeue DK	
	IP Address	10.20.13.34		
	IP Port (mostly 502)	502		
	Password remote control	*****		
	IP port remote control	4831		
	Password Archives		_	
Rename				
		Apply	Cancel Ok	(

RMGViewGC > Select Site > Settings > GC Settings

Fig. 4-22: GC Settings – Modbus

In this tab you configure the communications connection between RMGView $^{\rm GC}$ and GC.

Modbus AddressAddress of the GC controller at the bus.IP AddressIP address, for the connection between ultrasonic gas meter and
RMGView^{GC}, e.g. 10.20.13.34IP Port (mostly 502)Port number of the RMGView^{GC} service for the connection via
the IP Address.



4.19 Password List

Vame	Password		
Max Mustermann	sdf34w	Operator	
Petra Luxenburg	745Ad1	Configuration	
		Operator	

RMGViewGC > Select Site > Settings > Manage Passwords

Fig. 4-23: Password List

In the **Password List** window you can manage the user and passwords.

- Name User's name.
- **Password** Password character sequence.
- Unnamed column User level selection



4.20 User Settings

RMGViewGC > Select Site > Settings > User Settings

ser Settings : User Interface				>
User Interface CSV				
User data directory	::\Users\r17333\	Documents\	RMGViewGC1010101	0
use last folder if possible		Г		
Start with	Site Overview	-		
Language	English	•		
Show Tool Tips (List)		•		
Show Column "Modbus Addr	ess"	1		
Advanced Mode (Lists)		г		
Filter: Use Macro		Г		
Enable DDE Server		F		
Always use this site, skip sit	e selector	Г		
				-

Fig. 4-24: User Settings: User Interface

	In the User Settings: User Interface window User Interface you can maintain the user-defined settings in RMGView ^{GC} for the graphic interface.
User data directory	Source path for user interface configuration file.
Use last folder if possible	Use last default setting:
folder as standard	$\ensuremath{\boxtimes}$ Use the lastly selected directory path.
	□ Do not use default setting.



CSV Delimiter	Selection of the delimiter used in CSV files.
	• ; = use semicolon separator.
	• TAB = Use tabulator separator.
decimal point	Select the indicator for the decimal place for values.
	• . = Use point, e.g. 15.0 bar.
	• , = Use comma, e.g. 15,0 bar.
Start with	Select the window with which RMGView ^{GC} is started:
	Site Overview
	Dashboard
	Values
	• Lists
	Plots
	Raw data
	Reports
	Errors
	Remote control
Language	Language to be used for the user interface.
Display tool tips (list)	Display information on list elements in tool tips.
	☑ Display tool tips for list elements.
	Do not display tool tips for list elements.
Filter: Use Macro	Filter macro and display.
	✓ Filter for macros and list.
	\Box Do not filter for macros.
	In addition to these user settings, data for an Event ownert can be
	set up on a further page, the CSV settings.



ser Settings : CSV			×
USHI MARTNON CSV			
CSV Delimiter	decimal point	-	
open cov with	don't open automatically	-	
Record Data, CSV Plot Ex T quote strings	ort		
character encoding	UTF8		
F add consecutive numb	e		
row header	%to%e		
	Replacements: Net: macro Net: unit Not: text Not: position Vo:: new line"		
		Cancel	OK

Fig. 4-25: CSV Settings

You can set the indicator for column separation here and define the separation of the decimal places with a dot "." Text can be displayed with or without quotation marks and the display of the column header can be defined here.

4.21 License Info

RMGViewGC > Select Site > Help > About RMGViewGC

In the **License Info** window, information on the software license is displayed: If you have any questions or queries please contact the RMG service personnel.

Notice

Till today the RMGView^{GC} software is available without any license fee. Therefore, no information window is opening actually.

⇒ "Manufacturer" on page I



4.21.1 Process License

RMGViewGC > Select Site > Settings > RMGViewGC Process License

Manage RMGViewGC Lice	ense		×
Licensed to	-		Change
Type of License	Customer		-
		Cancel	OK

Fig. 4-26: Manage License

On this page you may set a license user and the license code.

4.22 Report Editor

RMGViewGC > Select Site > Reports > User-Defined Reports > Report Editor

In the **Report Editor** window you can compile protocols according to your requirements. A training by RMG is required before working with the Protocol Editor.



As an alternative RMG offers the service of creating clientspecific reports.

If you have any questions or queries please contact the RMG service personnel.

⇒ "Manufacturer" on page I



5

Operation

In this chapter you will receive information on carrying out operations with the software.

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5.1 User settings

In this chapter you will receive information on logging in and out of a user level.

5.1.1 Login users

The users are assigned the access rights for the user level by logging in with their password.

■ Logging users in at a protected user level



Fig. 5-1: Opening Password Input window

A

The following steps are conducted from the **Dashboard - Site Overview** RMGView^{GC} window.

➡ Chapter 4.1, "Site overview" on page 47



-
-

1 Click the **Password Input** button.

The Password Input window opens.

assword Input		×
Monitor	¢.	
Operator	2 C	
Configuration		Password
Expert Mode	c	
1	ок 4	Cancel

Fig. 5-2: Login user

- 2 Click the radio button for the user level e.g. Configurator.
- 3 Enter the password in the **Password** field.
- 4 Click the OK button.

If the password was entered correctly, the button on the **Password Input** field changes to the name of the user e.g. **Operator**.

If the password was not entered correctly "Wrong password" appears in red characters.

The number of login attempts is not limited.



A



5.1.2 Log out users

For security reasons you must make sure that you log out of the protected user level before you leave the PC.

■ Logging out users from a protected user level

1 Open the **Password Input** window.

For this you carry out following steps:

Step 1, "Logging users in at a protected user level" on page 78

assword Input		X
Monitor	2 C	
Operator	с	-
Configuration	e	Password
Expert Mode	c	
(ОК	Cancel



- 2 Click the **Monitor** radio button.
- 3 Click the OK button.

Access to the previously opened user level is disabled.



5.2 Adjusting the size of graphic contents

In order to enhance your view, you can enlarge or shrink areas of diagrams (plot).

Enlarging areas



- A display area of the plot.
- B Area marked for enlargement

Fig. 5-4: Enlarging

- 1 With left mouse button pressed mark the desired area (B) of the plot (A).
- **2** After releasing the left mouse button the view of the marked frame is enlarged.



Inpette Settings 1	08 198								_	_
Ste Chanave	Cashbeard	in values	III UNI	No.	Raw Date		• Eres	Bench comm		EquitM
iats	User defined	piot 1						3	0 1 1	
sarsal an inema pat h	1									
	Lasta			1						
	(44.72			-						
	(14575			-						
	1.9552			-	-11					
	1.0000					1				
	F (min									
	1.0692									
	1. Second				1	-	-			
	C SETLA				1		1			
	Carte									
140 000 000	1.00.02			1			1			
(1) + 1		1055.48	9.5	110	10.64.58	0.78.00		inter- inter-		78.68.51

Fig. 5-5: Enlarged area

Reset areas

1 Press the **Z** key on the keyboard.

The previously enlarged view is set back to the original size.



5.3 Working with windows

In this chapter you will receive information on organizing the windows.

5.3.1 User defined window configurations

You can arrange the windows on your desktop and save the configuration under a desired name. This configuration can be opened again any time.

Save Window Configuration

- 1 Open the Site Overview window.
 - ⇒ Chapter 4.1, "Site overview" on page 47
- 2 Arrange the windows on the desktop to your requirements.



Fig. 5-6: Save window configurations

- 3 Click menu item File in the menu bar.
- 4 Click menu item Workspace.
- 5 Click menu item Save Window Configuration.

The arrangement of the opened windows is saved as a RMW file.

Tip!

Give the RMW file a name that you can easily recognize as being your configuration.



- Opening window configurations
- 1 Open the Site Overview window.
 - ⇒ Chapter 4.1, "Site overview" on page 47



Fig. 5-7: Save Window Configuration

- 2 Click menu item File in the menu bar.
- 3 Click menu item Workspace.
- 4 Click menu item Restore Window Configuration.

Windows are opened automatically and arranged according to the configuration on the desktop.



5.3.2 Cloning windows

Cloning windows





2 Click the **Clone window** button.

The current window is opened once again.



5.3.3 Closing RMGView^{GC}

You can close all RMGView^{GC} windows with just a few mouse clicks.

- Exiting the software
- 1 Open the Site Overview window.

⇒ Chapter 4.1, "Site overview" on page 47



Fig. 5-9: Menu item RMGView

- 2 Click menu item File in the menu bar.
- 3 Click menu item Exit RMGView ^{GC}.

All windows of the software are closed.



5.3.4 Close windows for a device

Close windows



Fig. 5-10: Menu item RMGView

- 1 Click menu item File in the menu bar.
- 2 Click menu item Close Window.

The current window is closed.



5.4 Parametrize GC controller



To use this function you have to login as a configurator user (at minimum).

To transfer values to the GC controller, you must first open the calibration switch of the Controller. Note that the seal must be broken for this work. The GC must not be operated with a broken seal; the device no longer has the status "Calibrated".

- Only carry out these tasks if you are authorized.
 - ⇒ Please observe the "Operating instructions for the GC controller".
- Create a CSV file for parameterizing
- 1 Create a CSV file.
- 2 Remove the seal from the calibration switch.
- **3** Turn the calibration switch clockwise.

If the calibration switch is not correctly set to the switch position **"Calibration switcvh open**", then following message is displayed:



Fig. 5-11: Message

If this message is displayed, check the setting of the calibration switch.



- Transfer CSV file to GC
- 1 Login user in at user level Configurator.
 - ⇒ "Login users" on page 78

Oashboard - Device_11111111 - System_Beindersheim - RMGViewGC 3 File Reports Settings Tools view GC error log directory Site Overview Values Parametrize GC 4 Edit user defined modbus list Device_11111111 Workflows 0 Power Connected Warning C Alam

Fig. 5-12: Menu item Parameterize GC

- 2 Click menu item **Tools** in the menu bar.
- 3 Click menu item Parameterize GC.

A Windows screen for selecting a CSV file will be displayed.

4 Select CSV file and confirm selection.



Fig. 5-13: Select Blacklist and start process

Collect all the parameters that are not to be transferred to the GC in a list. Ready-made lists (blacklists) are available.

5 Select blacklist.



6 Click the Start button.

The status of parameterization is illustrated by an animated time bar.

The CSV file is transferred to the GC and the GC is parameterized with the values from the CSV file.

Successful parameterization is displayed in the **Parameterize GC.csv** window.

Parametrize GC	: par_neuer GC 1_27S	ep17_2.csv ×
Pandr		
Ready		
Blacklist		
Blacklist3 (Soft	tware Update)	-
	Ready	Start

Fig. 5-14: Parameterization successfully completed

7 Click the Ready button.

Parameterization is completed.

- Complete work on the GC
- 8 Turn the calibration switch counterclockwise.
- **9** Have the seal on the calibration switch replaced by an authorized body.



5.5 Open Folder User Data

You can open the folder User Data using the RMGView^{GC} software.

- Open Folder User Data
- 1 Open the Site Overview window.
 - ⇒ Chapter 4.1, "Site overview" on page 47

File 2 orts S	lettings Tools	Help		
New Window Close Window	(7)	Dashboard	101 Values	
Workspace	• • •			
Open Directory 3	Dpen RMG	ViewGC Appdata F	older	
Exit RMGViewGC	Open Folde	r User Data	4 11: 29.0.0) Namep
Filter		GC	Cr.	ordinate

Fig. 5-15: Menu item Open Folder User Data

- 2 Click menu item File in the menu bar.
- 3 Click menu item Open Directory.
- 4 Click menu item Open Folder User Data.

Windows Explorer opens. The filing location is displayed.



5.6 Open Appdata Folder

You can open the AppdataFolder using the $\rm RMGView^{GC}$ software.

- Opening the APPDATA Folder
- 1 Open the Site Overview window.
 - ⇒ Chapter 4.1, "Site overview" on page 47



Fig. 5-16: Menu item APPDATA Folder

- 2 Click menu item File in the menu bar.
- 3 Click menu item Open Directory .
- 4 Click menu item **Open RMGView^{GC} Appdata Folder**.

The Windows explorer opens. The filing location of the APP data is displayed.



You can create a jpg file of the **Plots** and **Raw Data**.

The JPG file is created in the same manner for both windows.

- Creating the jpg file
- 1 Open the Raw Data window.

⇒ Chapter 4.6, "Raw data (chromatogram)" on page 55



Fig. 5-17: Button save as jpg image



2 Click the button Save as jpg image.

Windows Explorer opens. The jpg file is created. .



5.8 Reading error and warning messages

The RMGView^{GC} software stores error and warning messages from the GC controller. For analysis purposes, the error and warning messages can be called up.

Retrieving error and warning messages

C Errors - All GCs - Syste	m_Beindersheim - RMGV en	60							- 0 ×
rile Saporta Sattara	s Tools Hea	-	-	14.4	the second second				
Sile Ovenitew	(*) Dashboart	Varues	E me	M use	Raw Data	E Logs	A Emes	Remate control	ExpertMode
AB DOS	•						1		
Error & Warring N	lessages								
ac .	Message								
THITTE_ACTIVE	A trea teas per								

Fig. 5-18: Errors window

- 1 Open Errors window
 - ⇒ Chapter 4.8, "Errors" on page 60

Measurement element errors

Under Tools you can also display errors of the PGC9300 measurement element.

See also the PGC9300 manual.



	-	-	in the second	1 mil 1 mil	No. of Concession, Name	1 Inco
	and the second s					-
-	Denix, IIIIIII	2111 Marriel				
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ALL DOTTING	57	-				
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Contraction of the local data	and some		and the second s		1	
and and a second	international international	int in	Tarran .			
Concernance of the local division of the loc						

Fig. 5-19: Errors of the PGC9300



5.9 Creating a log of user actions

Every user action executed by the user is recorded by the RMGView^{GC} software. You can open this list as a window. It is also possible to export this list as a PDF file.

CLogs - Device_11111111 - Set	item_Beindersheim - RM	NGV iewGC						÷.		×
File Réports Settings 1	pala Help							1.2	_	6
Sts Oveniew (Dastoerd	Values 🗄	Lista 🛃 P	Raw Data	E Loga	 Errors 	Remote control	-	Experti	Mode
Device_11111111										
Logs	GC History								÷	0
DE Halley	1	Film	₩ Film	Y Filler					-	Ŧ
DC Event Log	Timo	GC	User	Event						
Minthia Menagera	10/18/2017 10:37	STAR Device 111111	RMG Experi	2 Language (Language, 2) old Value English nes	whet German				

Display log

Fig. 5-20: GC History

1 Click the GC History entry.

The **GC History** window opens. All the actions taken are listed.

A

The contents of the list can be filtered for a user or for a message. ⇒ Chapter 4.7, "Logs" on page 56



■ Creating a log file as a PDF



Fig. 5-21: Exporting a list as a PDF file

1 Click the **Export** button.

The **Save as...** dialog box opens. The filing location must be selected. The PDF file is created.



5.10 Creating a log on parameter changes

Every parameter change that can have an impact on the accuracy of measurement is recorded by the GC controller. You can open this list as a window. In addition it is possible to export this list as a PDF.

Display log

e Reports Settings To	de Help	and the second sec					
Sta Overslew	Dashboard	Values	:: Lata 🛃	Plots He Raw Data	Logs	Errors Remote control	Expert Mod
ievice_11111111 💽 🖉	P.						
Logs	Device_1111	1111: GC Para	meter Log				0
OC Hittory	Tune	Coordinate	Name	Old Value		New Value	
OC Parameter Log	15.05.2017 10:181	8 121.9	neo-Pertana	0.0500		2 0506	
OC Event Log	15 05 2017 10:192	12.1.10	iso-Pentane	0.0000		0.0497	
	15.05.2017 10:20.1	4. 12.1 11	p-Pentane	0.0000		e o5e0	
	15.05.2017 10:203	2 12.1.12	ce-	6.0000		0.0510	
	15.05.2017 10:21	6 12.1.22	He set value	40.057		11 128	
	15.05.2017 10:21:2	9 12.1.23	SD set value	0.80841		0.80871	
	15.05.2017 10:25.5	4 13.11.2	Unit calentic value	Muleo		et/en/et/i	
	15.05.2017 10.27	9 1.0.1	Hode of operation	AUTORUN		ORNHO-KALB	
	15.05.2017 11:22.5	1.1.1	Nutsteam node	AUS		EM	
	19.05.2017 11:22:1	2 117	S-3 Measurements	4			
	15.05.2017 11:22:1	1.1.9	S-4 lifeasurements	9		1.1	
	16.05.2017 10:00:2	54.1.5	Chipps-file FTP	KENE		HOLEN	
	16.05.2017 11:22:2	5 54.1.5-	Chrpm-file FTP	HOLDN		KENE.	
	22.09.2017 10.221	6 17.1.6	LAN-2 P-Mode	AUTO_R		FESTE_P	
	22.09.2017 10.25	17.1.10	LAN-2 P address	192.168.20.2		10.20.13.54	
	22.08.2017 16.50.3	17.1.12	LAN-2 det. Galerie sy	192 168 20 254		10.20.13.1	
	25 09 2017 15 43 5	1 210.15	Gas shalyzer ha	0		1	
	28.09.2017 14:35	8. 1415	Chrom-Re FTP	KENE		HOLEN	
	29.09.2017 11:00:4	2 29 0 18	Gas analyzer no	1		mmm	
	16.13.2017.16.20.4	22.0.4	Del event las	10		VFS.	

Fig. 5-22: List of changed parameters

1 Click the GC Log button.

The list opens. All the actions taken are listed.



5.11 Event log

RMgview^{GC} > site selction > logs > GC event log



Fig. 5-23: Event log

In the GC Event window, you can display the logs for all events that have occurred. These contain a time stamp for which an event has been logged and the type of event. For example the error is listed and generally there is additional information about the event.





6 Troubleshooting

In this chapter you will receive information on possible problems and how you solve the problems.

0	
П	
-	

If you cannot find a solution to your problem with the RMG component, then please contact the RMG service.

⇒ "Manufacturer" on page I

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6.1 Display,,RMGView^{GC} is already running...."

The following message will be displayed: $\ensuremath{\mathsf{,RMGView}^{GC}}$ is already running."

This means that one RMGView^{GC} is already running. It cannot be started a second time.

Fix 1 Close RMGView^{GC} or, if this doesn't work, use the Windows Task Manager, (right mouse key on the Windows task bar -> Start Task Manager) end the RMGView^{GC}.exe process in the processes tab.

6.2 Display "The file USE_112c.rmx …"

...could not be found. Get in touch with RMG in order to receive a GC_xxx.rmx file that is suitable for your GC.

- Procure an .rmx file suitable for the firmware of your GC controller. Disconnect your GC controller. Start RMGView^{GC}. Select the menu item Tools->RMGView^{GC}. Open RMG APPDATA folder, copy the .rmx file into the folder displayed.
- 2 Close RMGView^{GC}.
- **3** Reconnect the GC controller. Start RMGView^{GC}.



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8 Glossary

This chapter provides information on terms.

Gas chromatograph (PGC)

A gas chromatograph is used to analyse the components of a gas to be measured. The measuring principle can be read in the relevant literature. The process results in chromatograms in which the individual gas components are identified by a deflection, a peek under a (measurement) curve. This area is representative for the volume fraction of the corresponding gas.

In order to achieve a high-precision measurement, the chromatograms must be calibrated regularly.

GC-Controller (GC)

A controller operates the PGC. It switches valves to allow the desired gas to enter the measuring cell, e. g. controls pressures and temperature to define stable, reproducible measuring conditions. The controller defines the entire measurement process. After the measurement, the controller

records the data, calculates the required parameters according to prescribed standards and ensures further communication.

chromatogram

Graphical representation of the measurement of a gas chromatograph. The further calculation and calibration allows the determination of the different gas components in a gas mixture, e. g. natural gas.

stream

The PGC can operate serially up to four different measuring points and determine the gas compositions present there. The individual measuring points are called stream.



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