# SIEMENS



# M-bus configuration and readout software ACT531 User's guide

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# 0 About this document

# 0.1 Revision history

Version	Date	Changes	Section	Pages
1.0	13.07.2016	First draft		
1.1	30.06.2017	Additions for RF converter		
1.2	13.09.2018	Note on reading out meters	Software installation	7
1.3	20.02.2020	New search method (device search)	Connect the PC to the level converter, meter settings, meter scan, menu settings	11, 20, 22, 34
1.4	30.04.2020	New diagnostic functions	Diagnostics	26
1.5	11.12.2020	Repeater settings Smart FW update for PW 250 (WTX631)	Repeater settings M-bus interface	27 34

# 0.2 Referenced documents

Ref.	Document title	Document type	Document no.
[1]	M-bus level converter, RF converter, and web	User's guide	A6V11157985
	server		
[2]	M-bus level converter WTV531	Data sheet	A6V10844290
[3]	M-bus level converter WTV531	Mounting instructions	A6V10844308
[4]	M-bus level converter WTX631	Data sheet	A6V11742346
[5]	M-bus level converter WTX631	Mounting instructions	A6V11751461
[6]	M-bus web server	Data sheet	A6V11157961
[7]	M-bus web server	Mounting instructions	A6V11157964
[8]	M-bus RF converter	Data sheet	A6V11135903
[9]	M-bus RF converter	Mounting instructions	A6V11135905

# 0.3 Before you start

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#### 0.3.4 Acronyms

M-bus	Meter Bus	USB	Universal Serial Bus

# 1 Overview

# 1.1 About this document

#### Purpose

The document provides information on configuring the level converters WTV531-GA5060 and WTX631-GA0090, the RF converter WTX660-E05060 as well as reading devices connected to the level converter.

# 1.2 Software functions

The software enables commissioning, communication, and maintenance of the WTV531-GA5060 and WTX631-GA0090 level converters and configuring the RF converter WTX660-E05060. It further permits reading consumption data on up to 1,000 (logical) M-bus devices connected to the level converter.

#### **Function overview**

The following functions are available:

- Reading of meter data and device status via primary or secondary addresses.
- Organize your plants with the most important information
- Generating reports with the readout and store them on a local PC.
- Permit the firmware update of the level converter
- Displaying of alarms in real time.
- Configuring the RF converter: Change the Mesh ID and channel ID
- Updating the RF converter firmware
- Device addressing (display and edit primary addresses)
- Diagnostic functions

# 2 Connect and install

Note

Install the ACT531M-bus configuration and readout software, version  $\geq$  2, before connecting devices to the PC with USB.

The level converter and RF converter cannot be connected to the PC at the same time.

# 2.1 Software installation

Double-click the installation file (.exe) and select the language for installation:

5	Installation benutzt werden soll:
	English

#### Follow the installation wizard:

Setup - ACT531 Readout	Software	_ X
	Welcome to the ACT531 Rea Software Setup Wizard	dout 0.4 on 15 before
	Next >	Cancel

#### Accept the license agreement:



#### Select the installation folder:



#### Create a desktop icon as desired:

S Setup - ACT531 Readout Software			
Select Additional Tasks Which additional tasks should be performed?			
Select the additional tasks you would like Setup Readout Software, then click Next.	to perform v	while installing ACTS	531
Additional icons:			
Create a desktop icon			
	< Back	Next >	Cancel

#### Installation is completed:



The installation wizard requests that you install the Visual C++ 2012 runtime environment on the PC is not already installed:



You now have all the required components and can start the software.

# 2.2 Preparation

You can no longer use the read out software ACT531 to read devices connected to the level converter if a level converter WTV531.. or WTX631.. is connected to an M-bus web server WTV676.

You must disconnect the level converter from the web server to read out meter data.

Then connect the level converter WTV531.. to the PC using a USB cable or the level converter WTX631.. using an USB RS-232 adapter.

Additional information on connecting the level converter with the PC is available in the Section "Connect the PC to the level converter", page 10.

Read the meter data using the readout software ACT531.

Additional information on reading out meter data is available in Section "Readout", page 23.

Note

Disconnect the level converter from the PC after reading out the meter data. Then reconnect the level converter to the web server. This connects terminals A, B and C of the level converter WTV531.. to terminals A, B and C on the M-bus web server.



Terminals A, B and C on the level converter WTX631.. are connected to terminals A, B, and C of the M-Bus web server.



# 2.3 Connect the PC to the level converter

### 2.3.1 Level converter WTV531..

A USB cable with a mini USB-B connection on the level converter and the PC's USB interface is used to connect the level converter and PC.



- A Pegelwandler WTV531.. als Master
- B PC mit Software ACT531

#### Procedure

- 1. Power up the level converter with the proper power supply (AC/DC 24 V).
- 2. Wait until the level converter's USB-LED starts to flash (ca. 8-10 s after switching on).
- 3. Connect the level convert with the PC using the USB cable.
- 4. Wait until the PC confirms that it has recognized the USB device.
- 5. Restart the PC if required.

#### 2.3.2 Level converter WTX631..

A USB RS-232 adapter connects the level converter to the PC.



- A Level converter WTX631.. with power supply as master
- B PC with ACT531 software

Procedure

- 1. Connect the level converter to the proper supply voltage (AC 230 V).
- 2. Connect the level converter and the PC with a USB RS-232 adapter using the RS-232 interface (terminals A, B, C).
- 3. Wait until the PC confirms that is has correctly detected the level converter.
- 4. Restart the PC as needed.

Note

You can also use an RS-485 adapter and connect the level converter using the terminals D, E, F.

# 2.4 Connect the PC to the RF converter

The RF converter is connected to the PC with a USB cable using the mini USB B interface on the RF converter and the standard USB interface on the PC.

**The cable is not included with the product. You can use an off-the-shelf cable.** 



#### Procedure

- 1. Connect the RF converter to the PC using the USB cable.
- 2. Wait until the PC recognizes the RF converter.
- 3. Restart the PC as needed.

# 3 Operation

# 3.1 Login

A login pane opens when starting the program. Enter the user name and password. These are by default:

- Username: admin
- Password: admin

After initial sign in, change the user name and password in order to protect the plant data stored on your PC against unauthorized access.

SIEMENS		English	•
User name: Password:	Login		
	Siemens Switzerland Ltd		
	Building Technologies Division International Headquarters Gubelstrasse 22 CH-6300 Zug Switzerland		
	www.siemens.com/buildingtechnolog	jies	
Corporate Information			

Select the desired operating language from the drop-down list and confirm the entry by clicking 'Login'.

**The selected language is now saved for the next time the program is started. You can change the language at any time.** 

Note

The software homepage opens after signing in:

SIEMENS	Select plant 3 New plant	<b>?</b>
A Plant	Plant list	
Readout		Plant name: LC60
G Exit	LC60 LC250	Plant owner:
		Plant address:
		Installer:
		Installation date:
		Plant description:
Administrator		
• · 1		
<ul> <li>Disconnected</li> <li>10/12/2020 17:27:11</li> </ul>	Open plant Delete plant	

This pane displays the present state of the level converter or the RF converter and software:

- Displays the signed-in user.
- Solution Displays the name of the current plant.
- S Displays activity on the M-bus.
- Displays the momentary connection state with the level converter or the RF converter.
- Connected: The level converter or RF converter is correctly connected to the PC.
- Initialization in progress: Checks for level converter or RF converter firmware updates.
- Not connected!: The level converter or RF converter is not connected to the PC.
- O Displays the current PC date and time.

Osoftware main menu:

- Access to the Plant menu.
- Access to the Read out menu.
- <sup>Settings</sup> Access to the Settings.
- Exits the software.

3 Submenus below the main menu: Plant:

- If no plant is currently opened:
- Select plant: Select the plant to open.
- New plant: Create a new plant.
- If a plant is currently opened:
- Plant information: A summary of plant data.
- Plant settings: Edits the plant data.
- Wired (M-bus): You can edit the device settings, search for devices connected to M-bus, or re-read out present device data.
- Wireless (wM-Bus): You can edit the settings for the RF converters or manage the meter index.

- Delete plant: Deletes the currently opened plant.
- Close plant: Closes the currently opened plant.

#### Readout:

- If no plant is currently opened:
- Open readout: Accesses the read data from all plants and generates a report in xls or csv format.
- If a plant is currently opened:
- Open readout: Accesses the read data from **opened** plants and generates a report in xls or csv format.

#### Settings:

- M-bus interface: Accesses the settings on the M-bus interface (level converter).
- ACT531: Accesses the settings for the ACT531 software.

#### Exit:

- Exits the software. Back up all edited data prior to closing the program!
- 4 Displays the data as per the selected main and submenu.

# 3.3 Plant menu

In the **Plant** menu, you have access to the following submenus:

- Select plant
- New plant

#### 3.3.1 Create new plant

Select the New plant submenu:

SIEMENS	Select plant New p	lant			
Plant		Plant nam Sample str	18: pot 25		
Readout	Plant owner data	ounpe ou	Building administrator d	ata	
Free Settings	Name / Company name: Miller		Name / Company name	e:	
Exit	Address: View street		Address:		
	Phone: +41 / 41 123 45 67	Email: info@miller.ch	Phone:	Email:	
	Plant data				
	Plant address: Sample street 25		Plant description:		
	Installer:				
Administrator	Meyers				
â .	Installation date: 12.07.2016	Three-month •			
ゔ.					
Connected - FW VER: 1.3			ок		
12/07/2016 14:27:39					

You can enter information on the plant (fields in *cursive* are mandatory):

- Plant name: Enter a unique name for the plant.
- Plant owner data:
- Name / Company name
- Address
- Phone
- Email
- Plant data:
- Plant address
- Installer
- Installation date
- Acquisition period: The field is intended for remind the user to manually readout the data (no automatic readout process).
- Building administrator data:
- Name / Company name
- Address
- Phone
- Email
- Plant description: Enter an additional description and comment on the plant.

Click **OK** to save the data and open the plant.

#### 3.3.2 Open an existing plant

SIEMENS 2 w plant Plant list ar Plant Plant name LC60 (a) Plant owner: Plant address: Installer Installation date: Plant description Administrator 솔 ? Ŷ Disconnected Open plant Delete plant (b) 10/12/2020 17:27:11

Select the 'Select plant' submenu:

Displays a list of plants saved to date. Some associated plant data is displayed in the right pane. Select the plant for editing. Click 'Open plant' to confirm.

#### 3.3.3 Plant information

The 'Plant information' submenu displays after creating a new plant or opening an existing one.

SIEMENS	Plant information Plan	t settings (M-Bos)	Wireless section (wfill-Bus)	Delete plant	Close plant	
Plant			Plant informa	tion		
Çu Readout ∰ Settings ∭ Exit	Plant name: Number of meters: Repeater number Plant address: Installer:	Sample street 25 0 0 Sample steet 25 Meyers		A. La Na	equisition done: ast acquisition date: ast acquisition status: ext acquisition date:	0
	Plant owner data Name / Company nar Miller Address: View steel	ne:		Building admini Name / Compa Address:	strator data	
Administrator	Phone: +41/411234567	Email: inf@miller.ch		Phone:	Email:	
Connected - FW VER: 1.4						
9 12/06/2017 08:12:15						

It provides an overview of the most important plant data, e.g. plant, number of meters, RF converter number, date of next acquisition.

#### 3.3.4 Plant settings

The panel displays the plant data entered thus far. You can adapt the data as needed. For a detailed description of all fields, see Section Create new plant on page 16.

SIEMENS	Plant information Plant se	tongs Wired section (M.Bus)	Wireless section (wM-Bus)	Delete plant	Close plant	
😤 Plant		Plant na	me:			
		Sample s	treet 25			
Keadout	Plant owner data			Building administra	ator data	
Settings	Name / Company name:			Name / Company	r name:	
(Income)	Miller					
U EXIL	Address:			Address:		
	View street					
	Phone:	Email:		Phone:	Email:	
	+41 / 41 123 45 67	inf@miller.ch				
	Plant data					
	Plant address:					
	Sample steet 25		Plant descri	ption:		
	Installer:					
	Meyers					
Administrator	Installation date:	Acquisition period:				
Sample street 25	12.06.2017	Three-month .				
e .						
Connected - FW VER: 1.4			OK			
() 4300000007 00.43.43						

#### 3.3.5.1 Meter setup

You can edit device settings on previously saved devices:

SIEMENS	Gack	ee Meter setup	Meter search	Readout	Me	ter addressing			?
A Direct		Fabrication number	Device name	Descr	iption			Delete All	
- Plant		05205136	DEV_0520513	8 Water				- X	
Readout		07411220	DEV_07411220	Heat				×	
		10000278	DEV_1000027	Bus/Sy	stem			×	
Figure Settings		10300618	DEV_1030061	Bus/Sy	stem			×	
		10300628	DEV_1030062	Bus/Sy	stem			×	
C+ Exit		11111025	DEV_11111025	Bus/Sy	stem			× ×	
	Meter setup								
	Fabrication number:	05205136		Manufacturer code:	LSE			Manufacturer:	
	Device name:	DEV_05205136		Version:	02				
	Description 1:	Water		Physical medium:	Water		10	Tuner	
				-	2400 h	-		type.	
	Description 2:	PA_255		Baud rate:	2400 04	•		D-1-1	
	Installation date:	08/01/2020		Primary address:	253			Details:	
				Readout by:	Second	ary Address 🔹			
	Meter data								
	User description	M-Bus de:	scription	Main value:	^	Subunit:		0	
	Volume	Volume				Storage:		0	
Administrator	Time Point	Time Point				Tariff:		0	
	Volume	Volume				Type Value:		Instantaneous	
1C60	Time Point	Time Point				Multiplier:		10	
2	Time Point	Time Point				Units:		liters	
×* .	Model / Version	Model / Vers	sion		~				
Disconnected		1		_	-				
() 14/04/2020 15:34:40					Save	4			

Click the 🗱 to delete the corresponding device.

Fabrication number	Device name	Description	Delete All
05205136	DEV_05205136	Water	$( \sim )$
05205137	DEV_05205137	Hot Water	~
05205138	DEV_05205138	Water	×
05205139	DEV_05205139	Hot Water	×
05205150	DEV_05205150	Water	×

Caution!

All data for the device is irretrievably deleted.

The following fields in the pane can be edited:

Meter setup

- Device name
- Description 1
- Description 2
- Installation date: The data is filled out automatically during the "Meter search" process. You can manually edit the entry.
- Baud rate: Displays the transmission rate between the device and the level converter.

Readout by: Displays whether the device is read via the primary or secondary address.

The following fields cannot be edited:

- Fabrication number (first 8 digits of the secondary address)
- Manufacturer designation
- Version: Displays the device version.
- Medium: Displays the medium acquired by the device.
- Primary address: Displays the primary address (1...250), used to address the device over M-bus.
- Manufacturer: Displays the name of the manufacturer (if included in the database).
- Type: Displays the device type (if included in the database).
- Details: Specifies the configuration if multiple configuration types exist for the device.

#### Meter data

You can select the data to be displayed in the 'Readout' menu. The following is an example of possible display values for a device. It displays all the data originating from the device polling:

User description	M-bus description	Main values	
Valume	Volume	2	
Time Point	Time Point	121	
Volume	Volume	( <b>2</b> )	1
Time Point	Time Point	.03	
Time Point	Time Point	(F)	
Model / Version	Model / Version	10	-

The data is automatically filled out in the "User Description" column if the device exists in the level converter database. Otherwise, you can enter your own name. By default, the name under "User description" is the same as the one under "M-bus description".

Devices included in the database are also preset in the "Main values" column, but can be edited.

You can search for devices connected to the level converter as soon as the level converter is connected to the PC.

This process must be conducted if one or more devices are newly added to the plant or a new plant is created. Select the 'Meter search' submenu and start the search with 'Start'.

SIEMENS	BACK M	eter setup	eer search	Readout	Device Addressing		<b>?</b>
Plant	Total number of meters: New found meters: Baud rate:	0 0 -	Search meter st Current address Search method:	atus: Pre : - Ser	iss Start to search condary address (Fabricati	on number)	
Exit .		List of foun	id meters	Start	Stop		
Administrator							
1LC60							
P .							
Connected - COM3							
20/02/2020 17:59:02					Save all		

The search type is defined under Settings / M-bus interface (see Section "M-bus interface" pg. 34.

By default, the software first searches by primary addresses (1...250). It then attempts to find additional devices with a search by secondary addresses. The transmission rate is set by default to 2400.

A status line displays search progress and activity on the M-bus.

SIEMENS	BACK Mete	er setup Meter search	Readout Device Addressing		?
Plant	Total number of meters: New found meters: Band rate:	0 Search meter sta 0 Current address: 2400bps Search method:	stus: Search done 9/00/000/-/0000000/ Secondary address (Fabricati	ion number)	
Settings		List of found meters	Start Stop		$\nearrow$
Administrator					
1 LC60					
۰.					
Connected - COM3					
20/02/2020 18:00:06			Save all		

The following information is displayed on the search:

- Total number of meters: Displays the total number of devices found.
- New found meters: Displays the total number of newly found devices.
- Baud rate: Displays the transmission rate used by the software to search for new devices.
- Status of meter search
- Current address: Displays the primary address (ID) or secondary address used to search by. The search by secondary address uses a wildcard logic to be able to find all devices.
- Search method: Indicates whether the devices are searched using the primary or secondary address.

Note

i

The search by secondary addresses is based on collision detection on the M-bus that occurs when polling a secondary address range (e.g. 06XXXXX). All devices on the bus must react to this query as per the M-bus protocol. There is a slight possibility that individual devices are not recognized during this process. In this case, you can assign these devices a primary address and then start the search by primary addresses.

The device search concludes as soon as all possible primary and/or secondary addresses are polled.

The devices, responding to polling, are then displayed on the meter list.



If the level converter finds an entry on the detected devices in its database, it displays it in the software with an image of the model.

Some information on the device is automatically taken over in this case. Additional information must be entered manually on devices not included in the database (see section "Wired (M-bus)" pg. 19)

Each found device must have a name:

- Device name: Enter a unique name for the device. The device is listed in the report under this name.
- Description 1: Enter a brief description of the device. This description is displayed in the report.
- Description 2: You can enter a second short description to more easily identify the device.

Click 'Save' to add the device with its information to the opened plant. The device symbol on the device list changes after saving:



Newly found, but not yet saved devices. The device has not yet been added to the plant.

Previously saved device.

The device has been added to the plant.

Click 'Save all' to add all found devices to the opened plant.

**i** Devices can be listed multiple time if they do not respond to a query.

#### 3.3.5.3 Readout

Use the 'Readout' submenu to get the measured values.

SIEMENS	الله المعالم ا Back	Meter setup	Se Meter search	Readout	deter addressing	- <b>A</b> Diago	N- nostic			?
A Plant		Meter li	ist							
	Fabrication number:	Device name	Desi	ription	Acquisition status	^	User:	Administra	ator	
Readout	00003004	DEV_00003004	Unkn	own	OK		Comments:			
	00007805	DEV_00007805	Unkn	nwo	ок			-		
Settings	00007806	DEV_00007806	Unkn	nwo	OK					
A	00028964	DEV_00028964	Unkn	nwo	ок					
Exit	00071725	DEV_00071725	Hot V	later	OK					
			START	STOP	Save readout					
	Meter data User description Readout value						Units	Type	Tariff	^
	Volume		Volume		7.098		m3	Current	0	
	Device date time		Time Point		14/04/20 11:29		date e	Current	0	
	Monthly date 1		Time Point (St. N	um: 1)	16/06/19		date	Current	0	
	Volume historical 1		Volume (St. Num	: 1)	7.098		m3	Current	0	
	Due date and time		Time Point (St. N	um: 1)	16/06/20		date	Current	0	-
Administrator	Fabrication number		Fabrication Num	ver	00071725			Current	0	
-	Monthly date 2		Time Point (St. N	um: 2)	30/06/19		date	Current	0	
1C250	Volume historical 2		Volume (St. Num	: 2)	7.098		m3	Current	0	
S .	Monthly date 3		Time Point (St. N	um: 3)	31/07/19		date	Current	0	
	Volume historical 3		Volume (St. Num Time Reint (St. N	3)	7.038		m3	Current	0	
Connected - COM5	Montray date 4		Volume (St. N	um: 4)	7.098		date m3	Current	0	
(b) 14/04/2020 11:46:47	- total a tradical a		rowine (or round	- 1			1113	Consta		4

Click 'Start' to readout all the devices on the meter list.

As soon as a device is successfully read, the message "OK" is displayed in the "Acquisition status" column. If unsuccessful, the message "ERROR" displays.

The read out device data can be sorted by column content:

- User description
- M-bus description
- Readout value
- Type
- Tariff

You can save the data, if all devices were correctly read, to the plant by clicking the 'Save readout' button.

A manual start to plant readout can also be stopped: All the meter data read out to this time is retained.

Note
------

Note

The submenu 'Device addressing' lists the devices with fabrication number and device name. You can list and edit the primary addresses of the devices. Select the checkbox for the devices you want to edit (primary addresses).

Select the checkbox at the top to select the entire column.

The following buttons are available:

- 'Read primary address': Displays the primary addresses of the devices.
- 'Assign automatically': Automatically assigns a primary address to the devices. The primary addresses are assigned in ascending order.
- 'Write and save primary address': Writes the assigned primary addresses to the associated devices.
- 'Stop': Stops the writing of the primary addresses.
- 'CSV': Exports the fabrication numbers, device names, and primary addresses of the devices to a CSV file.

Click a column header to sort the column.

SIEMENS	Gack	ee Meter setup	Motor search	Readout	Meter addres	sing	the	?
are Plant	Fabrication number	Device name		Pri	imary address		Read primary	Assign primary address
Readout	05205136	DEV_05205138		253	1		address	
	07411220	DEV_07411220		253	1		Write and save the	2157
Settings	10000278	DEV_10000278		253	i)		primary address	Stop
	10300618	DEV_10300618		1				
C+Exit	10300628	DEV_10300628		253	E.			
	11111025	DEV_11111025		253	1			
	35026219	DEV_35026219		253				
	57794605	DEV_57794605		253				
	57794606	DEV_57794606		253				
	65574466	DEV_65574466		253	6			
	66022434	DEV_66022434		2				
	66022435	DEV_66022435		3				
	66022436	DEV_66022436		4				
	66022437	DEV_66022437		5				
	67930250	DEV_67930250		6				
	71253659	DEV_71253659		253	R			
	71253662	DEV_71253662		253	1			
Administrator	71253664	DEV_71253664		253				
•	71253665	DEV_71253665		253				
1 LC60	71253667	DEV_71253667		253				
2	71253676	DEV_71253676		253	1			
	71253677	DEV_71253677		253				
Disconnected	71253679	DEV_71253679		253	1		20	
(b) 14/04/2020 15:32:57	<					` ,`	csv	

Note

**i** You can edit individual primary addresses by selecting the checkbox for the device to edit. Click the primary address of the device and overwrite it. Then click 'Write and save primary address' to write the primary address to the device.

Note

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SIEMENS	Gack	Meter setup Met	ter search Reador	t Meter addre	ussing Usagno	Nic .	?
Telant	Fabrication number	Device name		Primary address		Read primary	Assign primary address
Readout	05205136	DEV. 05205138		253		address	
v	07411220	DEV_07411220		253		Write and save the	
Settings	10000278	DEV_10000278		253		primary address	Stop
	10300618	DEV_10300618		1			
C+Exit	10300628	DEV_10300628		253			
	11111025	DEV_11111025		253			
	35026219	DEV_35026219		253			
	57794605	DEV_57794605		253			
	57794608	DEV_57794606		253			
	65574406	DEV_65574466		253			
	66022434	DEV_66022434		2			
	66022435	DEV_66022435		3			
	66022436	DEV_66022436		4			
	66022437	DEV_66022437		5			
	67930250	DEV_67930250		6			
	71253659	DEV_71253659		253			
	71253662	DEV_71253662		253			
Administrator	71253664	DEV_71253664		253			
A 1000	71253665	DEV_71253665		253			
LC60	71253667	DEV_71253667		253			
· ·	71253676	DEV_71253676		253			
	71253677	DEV_71253677		253			
Disconnected	71253679	DEV_71253679		253			
14/04/2020 15:32:57	<					CSV	

Note

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A connection is required to read or write the primary address. If a device is not connected or cannot be reached, the device cannot be assigned a primary address. In this case, the message "ERROR" displays.

Administrator         Administrator         Cool         Cerve State         Cerve State         Stope	SIEMENS	ZURUCK	Zählereinstellungen	Zahlersuche	Auslesen	Gerätsaitresse		50	?
Administrator         Exercise         Stopp           Cold         Cev_gonomic         Cev_gonomic	Anlage	Fabrikations	nummer Zahlername		Prima	radresse			
Administrator         Color         Certuingen         Color         Certuingen         Color         Color         Certuingen         Color         Certuingen         Color         Certuingen         Color         Certuingen         Color         Certuingen	Auslesungen	00000020	DEV_00000020		ERROR -	0			Dim to day and
Ematellungen         0000000         0ev.,0000000         0ev.eff. (0)         0           Brenden         0000004         0ev.,0000064         0ev.eff. (0)         0           0000004         0ev.,0000064         0ev.eff. (0)         0         0           0000005         0ev.,0000064         0ev.eff. (0)         0         0           0000006         0ev.,0000064         0ev.eff. (0)         0         0           000000708         0ev.,0000064         0ev.eff. (0)         0         0         0           00000064         0ev.,0000064         0ev.eff. (0)         0<		00000030	DEV_00000030		ERROR -	(2)		Primaradresse	automatisch
Beenden         Occomode 00007055         Dev_0000004 00007055         Dev000005 00007055         Dev0000005 00007055         Dev0000005 00007055         Dev0000005 00007055         Dev0000000 00007055         Dev0000000 00007055         Dev0000000 00007055         Dev00000000 00007055         Dev0000000000000         Dev000000000000000000000000000000000000	Einstellungen	00002090	DEV_00002090		ERROR -	(3)			
December         Occorros         CPCPC-(0)         Image         State about         Stage           00007006         CPCPC-(0)         CPCPCPC-(0)         CPCPCPC-(0)         CPCPCPCPC-(0)         CPCPCPCPCPCPCPCPCPCPCPCPCPCPCPCPCPCPCP	215	00003004	DEV_00003004		ERROR -	(4)		Primäradresse	
0000706         Dev_0007066         BMCR-(0)	Beenden	00007805	DE∨_00007805		ERROR -	(0)		schreiben	Stopp
00009964         Dev_00091725         DevCe.(0)           00071725         Dev_00071725         DevCe.(0)           66091307         Dev_06091307         DevCe.(0)           66091307         Dev_06091307         DevCe.(0)           66091307         Dev_06091307         DevCe.(0)           66191307         Dev_06091307         DevCe.(0)           66191307         Dev_06091307         DevCe.(0)           66191307         Dev_06019738         DevCe.(0)           67132099         Dev_057120998         DevCe.(0)           67132099         Dev_057120999         DevCe.(0)           67132099         Dev_057120999 <t< td=""><td></td><td>00007806</td><td>D€∨_00007806</td><td></td><td>ERROR -</td><td>(0)</td><td></td><td></td><td></td></t<>		00007806	D€∨_00007806		ERROR -	(0)			
0007725         00V,00071755         00V0.00         0           6093307         02V,509307         0POR.(0)         0           6020579         02V,0007379         0POR.(0)         0           613309         02V,503207         0POR.(0)         0           613309         02V,5032099         0POR.(0)         0           613309         02V,5032099         0POR.(0)         0           613309         02V,5032099         0POR.(0)         0           613000         02V,5032099         0POR.(0)         0           61000         02V,5032099		00028964	DEV_00028964		ERROR -	(0)			
6699 307         Dev_6099 307         EMOR - (0)		00071725	DEV_00071725		ERROR -	(0)			
66207578         Cev60207578         Cencor(0)		65891387	DEV_65891387		ERROR -	(0)			
67132009         0€V_67132009         (\$MOR-(0)).         □           ▲ Administrator         ■         LOS0         □           ▲ Loson im Gang         ●         Keine Verbindung         □		66207579	DEV_66287579		ERROR -	(0)			
Administrator LOSO Loson Im Gang Keine Verbindung		67132999	DEV_67132999		ERROR -	(0)			
	Administrator LC60 Cene Im Gang Keine Verbindung								
	()	<					>		

#### 3.3.5.5 Diagnostics

The submenu 'Diagnostics' can check the quality of the connection to M-bus devices.

**Diagnosis of readings** The quality of the connection to the M-bus devices is indicated in the 'Accessibility' column. The lower the percentage in the 'Accessibility' column, the more the connection to the corresponding device is impaired. The connection is optimal at a value of between 80 to 100 percent.

In the drop-down list 'Select a reading', you can select the diagnostic data from past readings for display.

The 'CSV' icon downloads and analyzes a report on the devices with the selected reading and can be provided to your support as needed.

Bus diagnosisThe commands listed under 'Bus diagnosis' assist in analyzing plant problems.<br/>Only M-bus experts should use these commands. Different fields are accessible<br/>based on the selected command.

Click 'Open log' to receive information directly on M-bus communication. A new window opens with an extract of M-bus communication. This extract is saved daily in a file.

You can select the log for the desired day in the drop-down list 'Select a log file'. Click the 'TXT' icon to download the log. The report can be provided to your support as needed.

SIEMENS	Gack	eter setup	Meter	erch	Readout	Mete	e addressing	Diagnostic		2	
A Plant	Diagnosis of read	ings									
Readout	Serial number	Device name		User descr	iption		Primary	Accessibility	^	Select a reading 01/04/2020 17:20:52	
	05205136	DEV_05205136		Water			253	100%			
Settings	07411220	DEV_07411220		Heat			253	100%	1.11		
	10000278	DEV_10000278		Bus/System			253	100%			
C Exit	10300618	DEV_10300618		Bus/System			1	100%			
	10300628	DEV_10300628		Bus/System			253	100%			
	11111025	DEV_11111025		Bus/System			253	100%			
	35026219	DEV_35026219		Water			253	100%		4-7	
	E7704905	051 57704805		Mater			262	1008	¥	CSV	
	Bus diagnosis										
	Select a command										
	REQ_UD2 ~ 2400			Use FCB (Frame Counter Bit)							
	Identification number	Manufacturer	Generation	Medium	Primary	address					
	FFFFFFF	FFFF	FF	FF	253	*					
	Data to be sent							Sand comm	and l		
Administrator								Joint Commis	~	Select a log file	
										1D1_2020_04_14_useriog.txt 🗸	
EC60	Plant Name: LC60										
· ·									0.7	m Pa	
Pisconnected											
14/04/2020 15:25:19     14/04/2020 15:25:19	Open log	Clear	log								

#### 3.3.6.1 Repeater settings

You can acquire and edit RF converter settings (repeater).

SIEMENS	Back	ပိုပုံ) Repeater configuration	Oevice(s) list				2
are Plant		Serial number	Description 1	Description 2	Install date	Erase	
Readout							
<b>C</b> +Exit							
	Repeater configura Serial number Description 1 Description 2	tion		Manage ac COM-port Password k Serial Numb	cess to the Repeater AUTO agen er	• Standard	Connect I password
	Mesh ID	0	•	Firmware			
	Mesh channel	1		FW revision a	vailable FWRPT	LV1R26 hex - Upgra	de firmware
🗳 Administrator	Change password	uration	Send configuration to R	Recovery P Recovery pa New passw Confirm pas	Password Settings seword and sword	Set no	w password
1C60	Repeater settings						
· ·			Model	ion	5-MW 5-MW	us type us HW Revision	
🖞 Disconnected			Serial Error cod	se	wM-8 Mesh	us FW Revision type	
() 10/12/2020 17:29:02	Read current co	nfiguration	Operation	g time date time	Mesh	HW Revision FW Revision	

Note

Click X to delete the corresponding RF converter.

You can only delete devices that are not currently connected.

	Description 2	Install care	Crase
DEV_RP18507408		12/8/2017	( ~
ġ	EV_RP18507408	EV_RP18507408	EV_RP18507408 12/8/2017

Repeater configuration

i

You can edit the following fields in section 'Repeater configuration'.

- Description 1
- Description 2
- Install date
- Mesh ID: Enter the Mesh network address. Ensure that all RF converters and the web server are on the same network.
- Mesh channel: You can change the channel ID in the event of faults.
- wM-bus mode: Select an operating mode: C, S, and T mode.
- New password: You can enter a new password for the RF converter. Select 'Change password'.

Save the settings on the plant by clicking 'Save configuration'.

Send the settings as entered under 'Repeater configuration' to the RF converter by clicking 'Send configuration to Repeater'.

Administer access to the repeater

- COM-Port: Select AUTO if you are connected the RF converter (repeater) to the PC using the USB connection and click **Connect**. The COM port value changes to COM\* and the RF converter data is read.
- Access password: You can log in using the default password if the "Default password" is selected or define your own password.

- FW revision available: The ACT531 software is supplied with the current firmware . The current firmware can also be transmitted to the RF converter. Additional information is available in section "Update firmware", page 28.
- Serial number: The serial number cannot be changed.
- Recovery password: Sends a new password if you have forgotten the password.
- New password: Set your own password after receiving a password.
- Confirm the new password

#### 3.3.6.2 Update firmware

#### Caution!

Do not disconnect the PC and RF converter while the firmware is being updated and do not switch off the RF converter.

- Select the desired firmware from the field 'FW update available'.
- Click 'Firmware' to initiate the firmware update to the current version.
- Click 'OK'.

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• On the RF converter, press buttons 2, 3, and 4 at the same time and wait until the update is completed.



- 1 Power (AC 100..240 V)
- 3 Local settings S2
- 5 USB connection
- 7 LED wireless M-bus network TX-RX
- 2 Local settings S1
- 4 Reset button
- 6 LED mesh network TX-RX

# Repeater data Displays the RF converter data including the current firmware version, serial number, error code, current date and time, data on wM-bus and Mesh network.

You can read the settings for the RF converter by clicking 'Read current configuration'.

#### 3.3.6.3 Administer device list

You can create a list containing up to relevant 500 devices for a specific RF converter. This list has a higher priority than the list on the web server.

SIEMENS	BAG	ж я	epeater setup	1	Device(s	i) list			
S Plant			i	ocal			l,		
Readout	8	Total device(s) f	ound:	184		Device	e search state:	Search done	
		New device(s) fo	ound:	184		🖾 Lo	ck list		
Settings						SI	tart Stop		
Exit	1	March Market						Read meter list	Send meter list Erase
	-	Copu su mp.			a consta			1	Malan Jata
	1.14	Timestama	Mete	r list fi	ouna:	Tint	France		meters data.
	10	Timestamp	Matricola	M	RSSI	Int	Erase	Manufacturer: Model:	LSE
	1/9	149723027125	71203009	110	-23.50	00004	Erasa	Details:	
	234	149723737128	71203002	He	-30.00	00004	Erase	Version	242
	225	140724017125	71253678	He	.10.65	REFIN	Frase	RSSE	
	0.99	149723407125	71253677	Be	-47.65	85534	Erase	T.Int.:	65534
	177	149725027125	71253679	He	-35.85	85534	Erase	Date time:	149628370010c265
	226	149723927125	71253680	He	-44.65	65534	Erase	100 M	
	178	149723257125	71253684	He	-34.65	65534	Erase	0010c265	
	154	149723297125	71253709	He	-36.65	65534	Erase		
	148	149723277125	71253731	He	-42.65	65534	Erase	Device Name:	
Administrator	153	149723117125	71253739	He	-36.65	65534	Erase	Description 4	
Sample street 25	089	149722799054	90546068	He	-33.65	65534	Erase	Description 1:	
	031	149723399054	90546089	He	-29.65.	65534	Erase	Description 3	
1	149	149723389054	90546092	He	-50.85	65534	Erase 1	Description 2:	
Connected - FW VER: 1.23						_	*		
			Se	ve met	ers				Save data Annulla

If a list is loaded (in .csv of rpt format), only those devices contained in this list will be taken into consideration by the RF converter and transmitted to the web server.

### 3.3.7 Delete plants

The Delete plant submenu deletes the currently opened plant.



Click 'Yes' to delete the opened plant.

#### Caution!

All data belonging to the plant, including all read outs, are irretrievably deleted.

Caution!

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The 'Close plant' submenu closes all opened plants.

Newly detected devices and newly acquired read outs are not automatically saved. Ensure, prior to closing the plant, that you have saved all desired devices and read outs.

The program goes to the start page for the 'Plant' menu after closing the plant.



# 3.4 Readout menu

In the 'Readout' menu, select 'Open readout'.

You can open an existing read out to view consumption data or generate a report. Displays a list of all read outs to date:



Select filter criteria:

- All plants: Displays the read outs on all generated plants.
- Filter by plant: You can select the plant to view its read outs.
- All dates: No filtering by date.
- Filter by date: Displays read outs within the selected date range.

Select the desired read out from the list and confirm with 'Open'.

😭 Plant:		Meter	r list							
	Fabrication number	Device name	Desi	cription	Acquisit	tion status	Acquisition da	ate 12/06/2017	09.12:58	
Readout	05205138	DEV_05205138	Wate	af .	0K		liner	Administer	tor.	
L. Contains	05205137	DEV_05205137	Hot V	Vater	OK		User.	Phanimisua	.01	
Section 2	05205138	DEV_05205138	Wate	я	OK		Comments:	2		
Exit	05205139	DEV_05205139	Hot V	Vater	OK					
	05205150	DEV_05205150	Wate	<i>s</i> .	OK					
	05205151	DEV_05205151	Hot V	Vater	OK					
	Meter data		Show main	n values only	2.57	1127:00		-	1	
	User description	M-G	bus description	Readout va	lue	Units	Type	laritt		
	Volume	USA:	and (5) blow ().	20		Itera	Current	0		
Administrator										
Sample street 25									x	X
									×LS	CSV O.CS
										0.000
Connected - FW VER: 1.4									Create	report

The following information is provided on the display:

- Meter list:
- Device fabrication number
- Device name
- Description (if entered)
- Device acquisition status
- Device acquisition date
- User: Displays the name of the user who triggered the read out.
- Comments: Displays any comments.
- Meter data: Displays the values as defined in the meter settings.
- Show main values only: Displays only the main values for the device (default setting) as per the device settings. If cleared, displays all values read from the meter.
- User description
- M-bus description
- Readout value
- Units
- Туре
- Tariff
- Report options
- XLS: The report is created in XLS format
- CSV: The report is created in the CSV format

Click 'Create report' to create a report in the selected format. Select the save location and the report name to save the report:

Device name DEV_05205138 DEV_05205137 rt * Zwischenspeicherung_Dol in * Neuer Ordner )DATA ^ Name )DATA Name	Description Water Hot Water Hot Water	Acquisition status	Acquisition date	Administrator	
DEV_05205136 DEV_05205137 rt • Zwischenspeicherung_Dol in • Neuer Ordner (DATA ^ Name (DVP-RV-L)	Water Hot Water ktus   Semple street 25	0x 0x •   4y   5	User: mple street 25 durthuo	Administrator	
DEV_05205137 et Xwischenspeicherung_Dol m      Neuer Ordner ) DATA      Neme () DVD-RW-L	kus + Sample street 25	0K •   4 <sub>2</sub>    52	mpie street 25 durchus 1811 -	ichen P	
rt	kus + Sample street 25	•   49    S	imple street 25 durchsu	ichen P	
Xwischenspeicherung_Dol     Neuer Ordner     DATA Name     NVD-RW-L	kus + Sample street 25	•   4 <sub>2</sub>    53	imple street 25 durchso   EL =	ichen P	
in + Neuer Ordner ) DATA ^ Neme I DVD-RW-Li			ja •		
) DATA Name ) DVD-RW-L					
) CH (\\wwC werk smsteuerung erkorb wion chenspeiche					
teiname				•	
Oateityp: Excel file				• X	X
ausblenden		S	peichern Abbr	rechen	CSV
uter ter gr is lat r	U) LH (Tivek tenskeurung gesten n ischenspeiche v Usteinsme Dateinyg: Escal Fie r sublienden	L2) CH (Trived Stensteurung gration R schempenhen v steiname r ausbienden	24) CH (Trivic transk transteurun jerkolb greisen teinempeiche Usteinume Dateity: Escel file	24) CH (Trivic transk transteurung gesland sjeland telaname Qatehys Excel Fie e wablenden Speichern Abb	24) CH (Yokk ternske ternske ternske sekolo gelod tischenspiche v steiname v sekolo ternske

Example of XLS report	The follo ters:	wing is	an e	xampl	e of a report in Excel format for a plant with three me-
	User	Plant name:	Address:	Date time	
	Administrator S	Sample street 25 Sa	mple street 25 1	2.07.2016 14:46	

Fabrication number	Device name	Description 1:	Description 2:	Date	Time M-	bus status	Energy (Wh) - Ener	y Volume Flow (I/h) - Volu	me Flow F	low Temperature (C) - F	low Temperature
7923586	DEV_07923586	Heat/Cooling	PA_001	12.07.2016	14:46:44	0	508	00	0		27,2
										Time Point (date e tim	ne) - Device date
Fabrication number	Device name	Description 1:	Description 2:	Date	Time M-	bus status	Energy (kWh) - Warm ener	gy Volume (m3) - Warn	n volume		time
65589679	DEV_65589679	Heat	PA_000	12.07.2016	14:46:48	0	1989	.7	2437,869		12.07.2016 13:44
Fabrication number	Device name	Description 1:	Description 2:	Date	Time M-	bus status	Energy (Wh) - Ener	y Volume (liters)	- Volume	Volume Flow (I/I	h) - Volume Flow
65589680	DEV_65589680	Cooling	PA_000	12.07.2016	14:46:53	0	98942	00	2437869		0

The report has the following elements in both XLS, as well as CSV format:

- Header: Displays the user, who generated the report, plant name, plant address, as well as data and time of acquisition.
- Meter data: This pane displays the data of devices belonging to the plant at the time of the readout.
- The first six columns are fixed and display the fabrication number, the name of the device, the description, date and time. The presence of the rest of the columns is based on the choices made on "Meter data" options on the "Meter setup" page and is based also on the meter type.
- **i** The numbers in the reports are depicted as follows:
  - Period as a 1000 separator.
  - Comma as a decimal point separator.

Note

# 3.5 Settings menu

In the 'Settings' menu, you have access to the setting options for the following components:

- M-bus interface
- ACT531

#### 3.5.1 M-bus interface

The 'M-bus interface settings' submenu selects the interface used to connect the level converter to the PC:

'USB Interface (WTV531..)': Select the USB interface to connect the level converter WTV531.. to a PC.

S Readout software Ver.: 3.0.10				- 🗆 X
SIEMENS	M-Bus interface ACT531			2
Plant Readout Settings	Settings of the M.Bus interface © USB interface (WTV531) Serial interface (UART) COM port Connect Discor	B Sarial Port (COM3) •	Firmware level converter 60 (W Current firmware version: Available version: Your system is up to date Firmware update	TV531) FW VER: 1.4 PVLC1_V184ber •
	M-Bus settings		Firmware Level Converter 250 (	WTX631)
	Search method:	Secondary address (Fabrication number)	Current firmware version	Check
A	Baud rate:	[600bps] 2 [2400bps] [9600bps]	Available version:	FWLC250_V2R0.bin
Administrator	Primary address search intervall:	From: 1 🗢 To: 250 🗢		
<ul> <li>■</li> <li>□</li> <li>□</li></ul>	Advanced settings:	SND_NKE RST_APP	Firmware update	e disconnected
<ul> <li>♀ Connected - FW VER: 1.4</li> <li>● 22/12/2020 10:45:26</li> </ul>		Save		

'Serial Interface (UART)': Select the serial interface to connect the level converter WTX631.. to a PC. The level converter WTX631.. is connected to a PC with a USB RS-232 adapter. Also select the COM port.

SIEMENS	M-Bus interface ACT531			5	2
S Plant	Settings of the M-Bus interface		Firmware level converter 60 (M	VTV531)	
Readout	<ul> <li>USB interface (WTV531)</li> </ul>		Current firmware version:		
₩ Settings	Serial interface (UART)		Available version:	FWLC1_V1R4.hex	
<b>C</b> +Exit	COM-port COM3 - Int	iel(R) Active Management Technology - 🔹	34M		
	M-Bus settings		Firmware update	(WTX631)	-
	Search method:	Secondary address (Fabrication number) -	Current firmware version	. Check	
	Baud rate:	🗌 (6006ps) 😡 (24006ps) 🔲 (96006ps)	Available version:	FWLC250_V2R0.bin	
Administrator	Primary address search intervall:	From. 1 🔄 To: 250 💠			
C60					
P .	Advanced settings:	SND_NKE RST_APP	Firmware update	ce disconnected	
Disconnected					
· 10/12/2020 17:30:12		Save			

Conclude by clicking 'Connect'.

The 'M-Bus settings' submenu as the following options:

- Search method: You can search for devices connected to the level converter in various ways (see product documentation on meters and the level converter):
- Primary address: Search by primary addresses 1...250.
- Secondary address: Search by secondary addresses
- Primary and secondary addresses: Search by primary and secondary addresses.
- Baud rate: The default transmission speed is set to 2400 bps. Refer to the product documentation for meters and the level converted for different transmission speeds.
- Primary address search interval: You can limit the search range of the primary addresses. The maximum address range is 1...250.
- Special functionalities for M-bus experts:
- SND-NKE: Sends the M-bus command to initialize M-bus devices prior to performing the readout.
- RST-APP: Starts the reset application prior to starting the search function (use only if expressly required by the devices).

The 'Save' button saves the settings.

You can update the firmware in the panes 'Firmware Level Converter 60 (WTV531)' and 'Firmware Level Converter 250 (WTX631)':

- Current firmware version: Displays the currently installed firmware version.
- Available version: Displays the latest available firmware version for the level converter.

You can check for new firmware for the Level Converter 250 at any time by clicking 'Check'.

The 'Firmware' button updates the firmware to the latest version.

The firmware version for the level converter also includes the latest version of the ACT531 readout software. It is important to always update ACT531 readout software to the latest version.

Note

i

The ACT531 submenu has two panes:

- ACT531 update
- Login credentials

SIEMENS	M.Bus interface ACT531		?
<ul> <li>Plant</li> <li>Readout</li> <li>Feedout</li> <li>Exit</li> </ul>	ACT531 info ACT531 version: 3.0.10 Meters database ver.: 1.81 Deta backup Restore		
💰 Administrator	Login credentials Name: Administrator User name: admin Password: Save	Readout software ACT531 Ver.: 3.0.10 Siemens Switzerland Ltd Smart Infrastructure Global Headquarters Theilerstrasse 1a CH - 6300 Zug	
<ul> <li>Disconnected</li> <li>08/01/2021 12:11:52</li> </ul>		Switzerland http://www.siemens.com/buildingtechnologies	

The 'ACT531 firmware update' pane has the following information and settings:

- ACT531 version: Displays the current software version.
- Meters database version: Displays the current version of the meter database.
- Data backup: Generates a complete backup of all data and software settings in one file.
- Restore: Restores the data and software settings from a file previously created with data backup.

In the Account login pane, you can edit the information for access to the software:

- Name: This is the name displayed while using the software.
- Username (default is "admin")
- Password (standard is "admin")

Click 'Save' to save the settings.

After initial sign in, change the user name and password in order to protect the plant data stored on your PC against unauthorized access.

# 3.6 Exit menu

The Exit menu exits the software. Back all edited data prior to closing the program!

# 4 Technical data

System requirements					
Operating system	Windows 10				
Processor architecture	32 or 64-bit				
Required libraries Microsoft C++ 2012 Ver 11.0.60.610					
	(included in the installation file)				
RAM	4 GB				
Disk space	500 MB				
USB port	1.1 or higher				

Operation	
Languages	German, English, Italian, French

Functional features	
Operable devices	Max. 1000 (logical) M-bus devices

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