





# **WAGO Gateway Application**

## Imprint

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Every conceivable measure has been taken to ensure the accuracy and completeness of this documentation. However, as errors can never be fully excluded, we always appreciate any information or suggestions for improving the documentation.

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Manual



## Content

1. Information about This Documentation	4
1.1. Copyright	5
1.2. Number Notation	5
1.3. Font Conventions	5
1.4. Symbols	5
2. Legal Bases	7
Subject to Change	7
Personnel Qualification	7
Limitation of Liability	7
3. Function Description	8
3.1. Hardware	9
3.2. Software	9
3.3. Supported Browsers	9
4. Installation	10
4.1. Change Passwords	12
4.2. Setting the Date and Time	14
4.2.1. Synchronization via NTP Server	15
5. Wago Gateway Application	16
5.1. File (Backstage)	17
5.1.1. File Management	18
5.1.2. Project Settings	20
5.1.3. Information	21
5.2. Hardware	23
5.2.1. Modbus IP	25
5.2.1.1. MODBUS IP Interface Settings	26
5.2.2. Modbus RTU	27
5.2.3. KNX TP	28
5.3. Data points	29
5.3.1. Configure Data Points	31
5.3.1.1. Gateway Function	32
5.3.1.2. Read/Write Conditions	33
5.3.2. Data Point Connection	34
5.3.2.1. Modbus IP Data Point	36
5.3.2.2. Modbus RTU Data Point	38
5.3.2.3. KNX Data Point	40
6. Performance	42
Appendix	43
	43





## **1. Information about This Documentation**

## 1.1. Copyright

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### 1.2. Number Notation

Number System	Example	Comment
Decimal	100	Normal notation
Hexadecimal	0x64	C notation
Binary	'100' '0110.0100'	In quotation marks, nibble separated by a period

### **1.3. Font Conventions**

Font Type	Explanation
monospaced	Names of paths and files are displayed in a font type with uniform character width. Example: notepad.exe
Menu	Menu options are displayed in bold, e.g.: Save
>	A "greater than" symbol between two names denotes the selection of a menu option. Example: <b>File &gt; New</b>
Input	Designation of input or optional fields are displayed in bold. Example: Value
"Value"	Input or selection values are displayed in quotation marks. Example: Enter the value "4 mA" under <b>Start of measurement range</b> .
[Button]	Buttons are displayed in bold in square brackets. Example: [OK]
[Keys]	Key labels on the keyboard are displayed in bold and enclosed in square brackets. Example: <b>[F5]</b>



### 1.4. Symbols

## **A DANGER**

#### Personal injury!

Indicates a high-risk, imminently hazardous situation which, if not avoided, can result in death or serious injury.



## ▲ DANGER

#### Personal Injury Caused by Electric Current!

Indicates a high-risk, imminently hazardous situation which, if not avoided, can result in death or serious injury.

## **A WARNING**

#### Personal injury!

Indicates a moderate-risk, potentially hazardous situation which, if not avoided, could result in death or serious injury.

# **▲ CAUTION**

#### Personal injury!

Indicates a low-risk, potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

## NOTICE

#### Damage to property!

Indicates a potentially hazardous situation which, if not avoided, may result in damage to property.



## NOTICE

#### Damage to property caused by electrostatic discharge (ESD)!

Indicates a potentially hazardous situation which, if not avoided, may result in damage to property.



## Note

#### Important note!

Indicates a potential malfunction which will not result in damage to property, however, if not avoided.



## Information

#### Additional Information!

Refers to additional information which is not an integral part of this documentation (e.g., the Internet).



## 2. Legal Bases

### Subject to Change

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### **Personnel Qualification**

The use of the product described in this document is exclusively geared to specialists having qualifications in PLC programming, electrical specialists or persons instructed by electrical specialists who are also familiar with the appropriate current standards.

Moreover, the persons cited here must also be familiar with all of the products cited in this document, along with the operating instructions. They must also be capable of correctly predicting any hazards which may not arise until the products are combined.

WAGO Kontakttechnik GmbH & Co. KG assumes no liability resulting from improper action and damage to WAGO products and third-party products due to non-observance of the information contained in this document.

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This documentation describes the use of various hardware and software components in specific example applications. The components may represent products or parts of products from different manufacturers. The respective operating instructions from the manufacturers apply exclusively with regard to intended and safe use of the products. The manufacturers of the respective products are solely responsible for the contents of these instructions.

The sample applications described in this documentation represent concepts, that is, technically feasible applications. Whether these concepts can actually be implemented depends on various guidelines. For example, different versions of the hardware or software components can require different handling than that described here. Therefore, the descriptions contained in this documentation do not form the basis for assertion of a certain product characteristic.

Responsibility for safe use of a specific software or hardware configuration lies with the party that produces or operates the configuration. This also applies when one of the concepts described in this document was used for implementation of the configuration.

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## **3. Function Description**

The WAGO Gateway Application for the WAGO 750-8212 PFC200 2nd Generation enables communication between different bus and/or communication systems and shortens the integration time. The user-friendly web interface allows the user to exchange information and measured values between different systems. The pre-configured application shortens startup times, especially in building technology. The WAGO Gateway Application currently enables communication with Modbus RTU, Modbus IP (TCP/UDP) and KNX-TP devices. Every conceivable combination is possible.

Application examples for WAGO Gateway Application:

- Building automation
- Chemical industry
- Printing industry
- Electrical engineering
- Aviation industry
- Plants
- · Plastics processing
- Warehouses
- Food processing
- Logistics
- Engineering
- Metalworking
- Paper production
- · Heavy industry
- Stations

•••





### 3.1. Hardware

Maximum Number	Item Nr.	Description
1	750-8212	Controller PFC200; 2nd Generation; 2 x ETHERNET, RS-232/-485
4	753-646	KNX-TP1-Modul
4	750-652	RS-232-/RS-485-Interface

### 3.2. Software

Maximum Number	Description
255	KNX Group addresses per module (Item number: 753-646)
255	Modbus RTU register per module (Item number: 753-652)
11	Modbus IP subscriber, configurable
255	Modbus IP register per Modbus IP subscriber
1000	Data point connection

## 3.3. Supported Browsers

The following browsers have been successfully tested with WAGO Gateway Application:

- Google Chrome Version 56.0
- Mozilla Firefox Version 51.0
- Microsoft Edge Version 38



## Note

#### Webvisualisierung Web Visualization

Only one browser (client) at a time can access WAGO Gateway Application web visualization.

Example: Simultaneous display in a desktop browser and a display device is not possible.



## Note

### Other browsers

Although other browsers may also be used, we cannot rule out that the system may experience limited functions with these other browsers.



## Note

### Use of devices from the e!DISPLAY portfolio

One of the desktop browsers described above and a display device with the necessary resolution and screen size is required to properly use all of the WAGO Gateway Application functions. Devices from the *e!DISPLAY* portfolio are therefore unfortunately NOT supported.



## 4. Installation

After registering at <u>www.wago.com/applicationcontroller</u>, you will receive an e-mail with the download link to the WAGO Gateway Application installation files. The required files for WAGO Gateway Application are downloaded as a ZIP archive.



## Note

The existing settings are retained!

The existing settings are temporarily saved on the SD card during the installation and are retained after the update.



#### Use a WAGO SD card!

It is recommended to use a SD card from WAGO (758-879/000-001).



### Select Zip-Datei

- 1. Select the installation file sd card install.zip from the subfolder /Software.
- 2. Unpack the zip file sd\_card\_install.zip into the main directory of the WAGO SD card (758-879 / 000-001).



### 2 Set the IP Adress

1. On the SD card, open the file Network.txt in the directory /config.



Network.txt - Editor		23
Datei Bearbeiten Format Ansicht ?		
# Via this file the network configuration (IP address and subnet mask) of the PFC can be set. # The network settings will always be written, if a "!" at the end of the syntax is used. # Otherwise the network settings will only be written, if the default PFC network configuration #	on hasn't change	.d.
<pre># The syntax is structured as follows: "IP: IP-Address/subnet_mask" #</pre>		
<pre># Notes: # The subnet mask can be written in two different ways: # Symples: # Symples: # Symples: </pre>		
<pre># IP: 192.168.1.17 -&gt; Set only the IP address (default subnet mask "255.255.255.0") # IP: 192.168.1.17/24 -&gt; Set IP address and subnet mask (Subnet mask as suffix) # IP: 192.168.1.17/255.255.255.0 -&gt; Set IP address and subnet mask # IP: 192.168.1.17/255.255.255.0! -&gt; Force IP address and subnet mask # IP: DHCP -&gt; Set network configuration to DHCP</pre>		
IP: 192.168.1.17/255.255.255.0		-
		▶

Set the desired IP address for the PFC and save the file.



## Note

#### Important note!

If no changes are made to the file Network.txt and the network settings are still set as when delivered, the application controller is automatically given the IP address 192.168.1.17.

### Insert SD Card

Insert the SD card into the memory card slot on the PFC.

### Stop Software

- 1. Set the operating mode switch to "STOP".
- 2. Reboot the PFC. The software is installed on the device after the reboot.

### Install Software

After the reboot, the LED display indicates the progress of the installation. Once all the LED light up green, the installation is complete.

### 6 Start Software

- 1. Remove the SD card from the memory card slot.
- 2. Set the operating mode switch to "RUN".
- 3. Reboot the PFC.

The software is installed on the device after the reboot.

### 4.1. Change Passwords

🕒 WAGO Ethernet Web-bas 🗙			
÷ → C ▲ Nicht sicher	https://192.168.1.17/wbm/index.php#information		☆ 🗛 🖸
<b>W</b> /AG	Web-based Management WAGO 8212 PFC200 FG2 2ETH RS		2 Login
Navigation	Status Information	Sta	atus
Information	Controller Details	WBM	
PLC Runtime	Product Description: WAGO 8212 PFC200 FG2 2ETH RS     Order Number: 750 8313	Local Time	16:32
Networking	License Information: Codesys-Runtime-License	Local Date	09.05.2018
Firewall	Firmware Revision: 02.08.30(11)	PLC Switch	RUN
Clock		LEDs	U6 O SYS
Administration	> Network Details X1/X2		U5 C ORUN
- Package Server	State: reabled		U4 0 0 IO U3 0 0 MS
Mass Storage	MAC Address: 00:30:de:41:b3:91		U2 O ONS
Software Uploads	Subnet Mask: 255.255.0		U1 0 0 U7
Ports and Services	×		
Cloud Connectivity			
SNMP	>		
Diagnostic			
- OpenVPN / IPsec			
Security			
Legal Information			
1	WAGO • Hansastr. 27 • D-32423 Minden • WAGO is a registered trademark of WAGO Verwaltungsgesellsch	aft mbH.	
ps://192.168.1.17/wbm/index.php	p#information		

### Call-up address for WBM

- 1. Start a web browser to open the WBM.
- 2. Enter the following URL in your browser: "https://<Controller-IP>/wbm" (here: https://402.168.1.17/wbm)
- https://192.168.1.17/wbm).
- 3. Bypass the security message by continuing to load the website.

### 2 Login

- 1. In the dialog "Login", log in as the user "admin", password "wago".
- 2. Confirm this by clicking [Submit].

When login is successful **Username: admin** is displayed in the header and the link changes from **Login** to **Logout**. If you have not yet changed the password, the following message will appear: "Security message: please change your password!".

#### Authentification

Login	
Username:	
Password:	Submit



User name	Rights	Default Password
admin	All (Administrator)	wago
user	Limited	user
guest	Only display	



## Note

### Change passwords

The default passwords are documented in these instructions and thus do not offer adequate protection. Change the passwords to meet your particular needs! If you do not change these passwords, a warning will appear each time you call up a website after logging in.



### 4.2. Setting the Date and Time

The date and time can be set in the **Web-based Management** system of the application controller under the **Clock** tab in the navigation bar. These settings are described in detail in the application controller manual.

We recommend synchronizing the time at regular intervals, as the system clock tends to drift. WAGO Gateway Application offers two options for this:

- 1. Synchronization of the system clock via an NTP server
- 2. Synchronization of the system clock using the GPS signal.

		٨	
WAGO Ethernet Web-bal X	- <u>A QQ</u>		
$\leftarrow \rightarrow \mathbf{G}$ A Nicht sicher   b	etps://192.168.1.1//wbm/index.php#clock	ĩ	x 🛛 🖬 :
	Web-based Management		
	WAGO 8212 PFC200 FG2 2ETH RS	Username: admin	<u>Logout</u>
Navigation	Configuration of time and date	Status	5
Information	Changes will take effect immediately.	WBM	
PLC Runtime	Date on device	Local Time	
Networking	Local: Change date	Local Date	
- Firewall		PLC Switch	RUN
Clock	Time on device	LEDs	U6 🔘 🌒 SYS
			U5 O ORUN
Package Server	UTC: Change time		U3 OMS
🛶 Mass Storage	12 hour format: Change format		U2OONS
🛶 Software Uploads			J10 007
- Ports and Services	Timezone		
SNMP	CET/CEST: Central European Time, B, DK, D, F, I, CRO, NL, V Change		
🛶 Diagnostic	TZ String		
🛶 OpenVPN / IPsec	CET-1CEST, M3.5.0, M10.5.0/3 Change		
🛶 Security			
Legal Information			
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### 4.2.1. Synchronization via NTP Server

NTP clients can be set in the **Web-based Management** system of the application controller under **Ports and Services > NTC Client** in the navigation bar.

These settings are described in detail in the application controller manual.





## 5. Wago Gateway Application

The WAGO Gateway Application is called up through the following link: "https://<Controller-IP>/ webvisu/webvisu.htm" (Here: https://192.168.1.17/webvisu/webvisu.htm).



### Login

1. Click [Login]. The "Login" dialog window opens.

k Cancel

- 2. Log in using your user name and password.
- 3. Confirm your entry by clicking [Ok].
- 4. After a successful login, the main window opens.

If the user name or password are incorrect, the dialog stays open.

User name	Rights	Default Password
admin	All (administrator)	wago
user	Restricted (project settings and delete are locked)	user
guest	Only display	guest



## 5.1. File (Backstage)

File	1	Hardware	Datapoints	0	٩
	File management	2		5	6
ī.	Project settings	3		-	-
0	Information	4			
		_			
Ľ	<b>V</b> /AGI				

### File Tab

After login, the "File" tab view opens.

### File Management

The Gateway settings can be saved/loaded or imported/exported here.

### Project Settings

User management, language settings and project descriptions are presented here.

### Information

Hardware and version information are presented here.

### 5 Help

Click [Help] to open the online documentation for the WAGO Gateway Application.

### 6 Logout

To log out, click [Logout].



### 5.1.1. File Management

File	Hardware	Datapoints				) Ø
File management	F	File management	Auto Save	10 min	1	
(i) Information			Load	Save	2	
			Load	Send		
			Username	root		
			Password	****	3	
			Remote Path	DauertestKNX1000.json	_	
			Active FTP-Connection			
			SD-Card Import Backup fi	Export le is ready to import	4	
NAG						

### Automatic Saving

Designatio	n Description	
Interval	The interval f logged in, the last time whe	for automatic saving can be entered here. As long as a user is a current settings are cyclically saved. The settings are saved a In the user logs out.
	•	Information
		<b>Deactivate Function</b> Setting an interval of zero deactivates the automatic saving.

### 2 Local

Designation	Description
Load	Click <b>[Load]</b> to load the project settings from the WAGO Gateway Application internal memory.
Save	Click <b>[Save]</b> to save the project settings in the WAGO Gateway Application internal memory.



### 3 FTP

Designation	Description				
Load	Click [Load] to load the project settings from an FTP server.				
Send	Click [ <b>Send</b> ] to server.	Click [ <b>Send</b> ] to send the most recently saved configuration files to the FTP server.			
IP Adress FTP-Server	Enter the IP address of the FTP server in the entry field; the IP address is entered in the format "0.0.0.0."				
Username	Enter the user r	name for logging in to the FTP server in the entry field.			
Password	Enter the passv	vord for logging in to the FTP server in the entry field.			
Remote Path	Enter the target directory on the FTP server in the entry field; the path is created automatically on the FTP server when the project settings are sent.				
		Note			
Directory Na There may be name.		<b>Directory Name</b> There may be no backslash (\) at the end of the directory name.			
Active FTP-	An active FTP connection is set up when the check-box is checked. If it is not				
Connection	checked, a pas				

## SD Card

Designation	Description
Import	The message is displayed when a configuration file is (gw.json) found on the inserted SD card. Click the button to start the file import.
Export	The message is displayed when a formatted SD card is inserted. Click the button to start the file (gw.json) export.



### 5.1.2. Project Settings

File	Hardware	Datapoints			0	٩
File management	Project :	settings				1
Project settings	1	Device description Remarks		Gateway Application		
1 Information	_			Wago Kontaktiechnik Ginbi'r & Co, KG	 J	
	2		English	~		
	3	User Management	Change Password			
N/A	GO 🗌					

### Information

Designation	Description
Device description	In this entry field, user information about installation location or function descriptions can be entered.
<b>Notes</b> In this entry field, general notes related to the user can be entered. T maximum length is 80 characters.	

### 2 Language

In this selection field, the user interface language can be selected.

### User Management

Designation	Description
User Management	The user management can be adapted in the dialog window that opens.
Change Password	The current user's password can be changed in the dialog window that opens.



### 5.1.3. Information

File Hardw	are Datapoints		0	٩
File management  Project settings  Information	Information WAGO Gateway Application WAGO Gateway Application 00.00.00 bets 2018-03-28	Useful Links WAGO Homepage Web Based Management (WBM)		
	WAGO Kontakttechnik GmbH & Co. KG D:32423 Minden Tel: +49 (0) 571/8 87 - 1 69 E-Mail: info@wago.com Web: http://www.wago.com Technical support Tel: +49 (0) 571/8 87 - 48 55 Fax: +49 (0) 571/8 87 - 48 55 Fax: +49 (0) 571/8 87 - 88 55	Device Information Order number Firmware version MAC-ID D 00:30:de:41:13.b7		
N/AGO				

### Information

Information on the WAGO Gateway Application version and contacts at WAGO Kontakttechnik GmbH & Co. KG and Technical Support is available here.

### Useful Links

Designation	Description
WAGO Homepage	Click this link to open a new browser window with the URL for the WAGO homepage.
Web-Based- Management (WBM)	Click this link to open a browser window with the URL for the WAGO Gateway Application Web-Based Management.



## Note

#### Pop-up Blocker

If the browser pop-up window is blocked, clicking the link will not open a new browser window.



### **3** Device Information

Designation	Description
Order number	Controller article/order number
Firmware version	Controller firmware version
Hardware version	Controller hardware version
MAC-ID	Controller MAC-ID



## 5.2. Hardware

File	Hardware 1	Datapoints			0 🔮
Settings	_				78
Intenace					
Hardware	Interface	Name		Settings	
PFC200 750-8212					
L	Modbus IP	Wago 750-841	P Adr: 192.168.1.100 Port: 502 Typ: TCF		
L	Modbus RTU 0	ModbusRTU0	Baudrate: 9600 Bd		
0753-0646	KNX TP 0	KNX Wohnung	Phy. Adr: 1.2.253		
0750-0652	Modbus RTU 1	ModbusRTU1	Baudrate: 9600 Bd		
Endmodul					
3		4	5	6	

### Hardware Tab

To switch to the "Hardware" view, select the corresponding tab.

### Interface Settings

To open the "Interface Settings" dialog for the selected interface, click [**Settings Interface**]; see <u>Modbus IP</u>, <u>Modbus RTU</u> and <u>KNX TP</u>.

### Hardware

This column presents the controller and communication modules recognized during initialization. If no communication modules are installed, communication is only possible between the MODBUS IP and MODBUS RTU.

### Interface

Different interfaces are provided depending on the installed hardware. The interfaces are displayed in this column.

### 5 Name

A symbolic name for the installed hardware can be specified. This name is displayed in this column and can be edited in the "<u>Settings Interface</u>" dialog.

### 6 Settings

This column presents an overview of the set interfaces. Clicking the respective cell opens the "Interface Settings" dialog; see <u>Modbus IP</u>, <u>Modbus RTU</u> and <u>KNX TP</u>.



### 7 Help

Click [Help] to open the online documentation for the WAGO Gateway Application.



To log out, click [Logout].



### 5.2.1. Modbus IP

File	Hardware	Datapoints		?	٩
33	•				
	<b>2</b>				
Settings Add D	elete				
1	2				_
Hardware	Interface	Name	Settings		
PFC200 750-8212					
L	Modbus IP	Wago 750-841	IP Adr: 192.168.1.100 Port: 502 Typ: TCP		
1	L	ModbusIP1	IP Adr: 192.168.1.17 Port: 502 Typ: TCP		
L	Modbus RTU 0	ModbusRTU0	Baudrate: 9600 Bd		
0753-0646	KNX TP 0	KNX Wohnung	Phy. Adr. 1.2.253		
U/50-0652	Modbus RTU 1	ModbuSKTUT	Daudrate: 9000 Da		
Enamodul					- 1

Operation of the graphical user interface is described in Section WAGO Gateway Applikation > Hardware. Clicking the line of a Modbus IP node displays the additional buttons [Add] and [Delete].

### Settings Interface

To open the "Interface Settings" dialog for the selected interface, click [Settings Interface].

### 2 Edit

Designation	Description
[Add]	After [ <b>Add</b> ] is clicked, an additional Modbus IP node is added beneath the selected Modbus IP interface. Additional nodes can be added until the maximum number (10) has been reached.
[Delete]	After [ <b>Delete</b> ] is clicked, the selected Modbus IP is deleted. It is not possible to delete the first node.



### 5.2.1.1. MODBUS IP Interface Settings

	Interface Settings	
Modbus Name	Wago 750-841	1 Color
Settings IP Address : Port 192.168.1. Communication Type TCP UDP	100 : 502 2	
		Ok Cancel

### General MODBUS

Designation	Description
Name	The interface name can be edited in this entry field. The entered name is used in the data point configuration.
Color	Clicking this button opens the dialog for setting the interface color.

### 2 Settings

Designation	Description		
IP Adress	The IP address is entered in this entry field.		
Port	In this entry field, the MODBUS interface port is set. Usually, port 502 is used.		

### Communication Type

Designation	Description		
ТСР	When the checkbox "TCP" is checked, MODBUS TCP is used.		
UDP	When the checkbox "UDP" is checked, MODBUS UDP is used.		

Pressing the [**Ok**] button adopts the settings and closes the dialog box. Pressing the [**Cancel**] button closes the dialog window without accepting the settings.



### 5.2.2. Modbus RTU

	In	terface Settings
Modbus	Name	ModbusRTU0 1
Settings     Baud Rate	9600 🗸	Physical Layer RS485 HalfDuplex V
⊂ Parity —	None 🗸	2
	One 🗸	
		Ok Cancel

### General MODBUS

Designation	Description		
Name	The interface name can be edited in this entry field. The entered name is used in the data point configuration.		
Color	Clicking this button opens the dialog for setting the interface color.		

### 2 Settings

Designation	Description
Baud Rate	In this selection field, the interface communication speed can be selected. The identical number of bits must be set for all nodes connected to this interface.
Parity	In this selection field, the interface parity can be selected. The identical number of bits must be set for all nodes connected to this interface.
Stop Bit	In this selection field, the number of stop bits for the interface can be selected. The identical number of bits must be set for all nodes connected to this interface.
Physical Layer	In this selection field, the physical communication standard can be selected. Usually, the standard "RS -485 HalfDuplex" is used.

Pressing the **[Ok]** button adopts the settings and closes the dialog box.

Pressing the [Cancel] button closes the dialog window without accepting the settings.



### 5.2.3. KNX TP

Interface Settings
KNX Wohnung 1
Settings       Filter Table         1.2.253       Filter Table Aktivate
ETS Import/Export File: /home/admin/config/ets.csv
Export Import
Ok Cancel

### General KNX

Designation	Description
-------------	-------------

Designation	Becomption
Name	The interface name can be edited in this entry field. The entered name is used in the data point configuration.
Color	Clicking this button opens the dialog for setting the interface color.

### 2 Settings

Designation	Description
Phy. Adress	The desired physical address of the KNX interface is entered in this entry field. The same address must not appear twice in the given installation.
ETS Import/ Export	This field displays which file can be imported and where it is saved for an export. If an SD card has been inserted, the file path is to the SD card. To export group addresses from the KNX configuration software (ETS), use the "CSV Export Function" of the "ETS Software." In the end, the file name must be changed to "ets.csv."
[Export]	Click [Export] to start the KNX group address export.
[Import]	Click [Import] to start the KNX group address import.
Filter Table	When this checkbox is checked, the filter table is activated. The table must always be active during normal operation.



## Note

### Restart the controller!

The change of the physical KNX address will only be accepted after the next restart!

Pressing the [Ok] button adopts the settings and closes the dialog box.



Pressing the [Cancel] button closes the dialog window without accepting the settings.

					_		_						
			Hardware		Datapoints								•
<b>B</b>	<b>X</b> Delete	Cer	Size	<ul><li>Symbol</li><li>Data</li></ul>	Aktiv	Inaktiv	Direction	<b>⊡</b> Between					
lte	em	6	Font Setting 2017-12-31 16:41	View	G Stromzähler I	Select	ion en" -> Mod				Quit 1/2		
Cala		0 Eachla	2017-12-51 10:41.	oo mooduskriot.t.		verzausiali seriu		Dus KTO. Ello		Oute	Gun 17 2	Mahua	an a décuita las
Sele	ect Error	Enable	VARV Websers 1.0	Inpi	n Del 10 sistem			unction	1	Outp	ut is suffet	Value	read/write by
			ModbueRTU1 : 1.00	Büro let °C	e del. 1/3 enl/aus				Mago 750-841 - 1	OG Wohnzimmer Jalous	nie aufah	raise 0	cov(10.0%)
H			Wago 750-841 - 1.0	G Wohnzimmer, Jalo	isie ston			>	(NX Wohnung : 1	OG Badezimmer Dock	a Bel 2/3 ein/aus	Falso	cov(10.0%) cycle(P, 10
Η			KNX Wohnung : 1.0	G Badezimmer Deck	a Bol. 2/3 oin/aus			>	Nego 750-841 : 1	OG Alle Jalousien auf/a	sh	Falso	cov(10.0%)
H		ě	Wago 750-841 : 1 O	G Alle Jalousien auf/	ab	,		>	NX Wohnung : 1	OG Badezimmer Deck	a Bel. 1/3 ein/aus	False	cov(10.0%)
Н		ĕ	Wago 750-841 : 1 O	G Alle Jalousien stor				>	ModbusRTU1 1	OG Alle Jalousien auf/al	h	12	cov(0.0%) cycle(B_10s
H		ĕ	Wago 750-841 : Dat	um				>	Nago 750-841 · L	Ihrzeit	-	18	cnv(0.0%) cvcle(R_1s
H		ě	ModbusRTU1 : 1.00	Stromzähler Typ				>	KNX Wohnung : 1	OG Wohnzimmer Deck	e Bel. 1/3 ein/aus	False	cov(0.0%) cycle(B. 10
Η		ĕ	ModbusRTU1 : 1 00	Stromzähler Falsch	er Tvo			>	NX Wohnung : 1	OG Wohnzimmer Deck	e Bel 2/3 ein/aus	False	cov(0.0%) cycle(B_10)
Н	0	Ň	ModbusRTU1 : 1.00	Stromzähler Netza	sfall senden			>	NX Wohnung : 1	.OG Wohnzimmer Deck	e Bel. 3/3 ein/aus	False	cov(0.0%) cvcle(R, 10)
Н	•	ě	ModbusRTU1 : 1.00	Stromzähler Netza	sfall löschen			>	NX Wohnung : 1	OG Wohnzimmer Tisch	Bel. ein/aus	False	cov(0.0%) cycle(R, 10)
Н		ĕ	ModbusRTU1 : 1.00	Stromzähler Zähler	stand Wirkender	ie kWh		>	NX Wohnung : 1	OG Schlafzimmer Deck	ke Bel. ein/aus	False	cov(0.0%) cvcle(R, 10)
Н		ĕ	ModbusRTU1 : 1.00	Wirkenergie gesam	t kW			>	KNX Wohnung : 1	.OG Schlafzimmer links	Bel. ein/aus	False	cov(0.0%) cvcle(R, 10
Н		Ň	Wago 750-841 : 1.O	G Wirkenergie L1 kV				>	KNX Wohnung : 1	.OG Wirkenergie L1 kW		False	cov(0.0%) cvcle(R, 10
Н		ŏ	Wago 750-841 : 1.O	G Wirkenergie L2 kV				->	NX Wohnung : 1	.OG Wirkenergie L2 kW		True	cov(0.0%) cvcle(R, 10
Н		Ň	Wago 750-841 : 1.O	G Wirkenergie L3 kV				>	KNX Wohnung : 1	.OG Wirkenergie L3 kW		False	cov(0.0%) cycle(R, 10
Н		Ň	Wago 750-841 : 1.O	G Leistungfaktor ges	amt			>	KNX Wohnung : 1	.OG Leistungfaktor gesa	amt	False	cov(0.0%) cycle(R, 10
Н		Ň	Wago 750-841 : 1.O	G Stromzähler Strom	L1			>	KNX Wohnung : 1	.OG Stromzähler Strom	LI	False	cov(0.0%) cycle(R, 10
п		Ň	Wago 750-841 : 1.O	G Stromzähler Strom	L2			>	KNX Wohnung : 1	.OG Stromzähler Strom	L2	False	cov(0.0%) cycle(R, 10:
п		ŏ		G Stromzähler Strom	L3			>	KNX Wohnung : 1	.OG Stromzähler Strom	L3	False	cov(0.0%) cycle(R, 10:
Н		ě	Wago 750-841 : 1.O	G Stromzähler Span	iuna L1			->	NX Wohnung : 1	OG Stromzähler Spann	nuna L1	False	cov(0.0%) cvcle(R, 10
Н		õ	Wago 750-841 : 1.O	G Stromzähler Span	iung L2			>	KNX Wohnung : 1	.OG Stromzähler Spann	iung L2	False	cov(0.0%) cvcle(R, 10
Н		ě	Wago 750-841 : 1.O	G Stromzähler Span	iuna L3			>	KNX Wohnung : 1	OG Stromzähler Spann	nung L3	False	cov(0.0%) cvcle(R, 10
Н		Ň	Wago 750-841 : 1.O	G Stromzähler Fregu	enz			>	KNX Wohnung : 1	OG Stromzähler Freque	enz	False	cov(0.0%) cycle(R, 10
П		$\mathbf{\tilde{b}}$	Wago 750-841 : 1.O	G Alle Steckdosen ei	n/aus			>	KNX Wohnung : 1	.OG Alle Steckdosen ei	n/aus	False	cov(0.0%) cycle(R, 10
П		$\mathbf{\tilde{b}}$	Wago 750-841 : 1.O	G Wohnzimmer Stee	kdose Mitte ein/a	us		>	KNX Wohnung : 1	.OG Wohnzimmer Steck	kdose Mitte ein/aus	False	cov(0.0%) cycle(R, 10s
Н		Ď	Wago 750-841 : 1.0	G Wohnzimmer Stee	kdose Rechts ein	/aus		>	KNX Wohnung : 1	.OG Wohnzimmer Steck	kdose Rechts ein/aus	False	cov(0.0%) cycle(R, 10s
П		ŏ	Wago 750-841 : 1.O	G Wohnzimmer Fens	terbank			>	KNX Wohnung : 1	.OG Wohnzimmer Fens	terbank	False	cov(0.0%) cycle(R, 10s
П		ĕ	KNX Wohnung : 1.0	G Wohnzimmer Fen	terbank			>	ModbusRTU1 : 1.	OG Alle Jalousien stop		0	cov(10.0%)
Н		ě	ModbusRTU1 : Datu	m				>	NX Wohnung : 1	OG Badezimmer Deck	e Bel. 3/3 ein/aus	0	cov(10.0%) cvcle(R. 1)

### Datapoints Tab

To switch to the "Datapoints" view, select the corresponding tab.

### 2 Item

Designation	Description
[Add]	When this button is clicked, a new data point is added at the end of the data point list.
[Delete]	When this button is clicked, selected data points are deleted. If no data point was selected, the last entry is deleted.

### **3** Font Setting

Designation	Description
Size	Use the slider to adjust the font size in the data point list.
Center	When this checkbox is checked, the text justification is changed from left to centered.



### 4 View

Designation	Description
Symbol	When the checkbox "Symbol" is checked, the interface and data point names are displayed. The set parameters are faded out.
Data	When the checkbox "Data" is checked, the set parameters are displayed. The symbolic names are faded out.

### **5** Selection

Designation	Description
Active	Click this button to activate communication for the selected data points.
Inactive	Click this button to deactivate communication for the selected data points.
Direction	Click this button to change the communication direction. The input data point is exchanged with the output data point for the selected communication connections.
Between	It is possible to select a wider range of communication connections. To do so, select the first and last connection of the range to be configured. Then check the "Between" checkbox.

### 6 Error

Saved error messages are saved in this area. As soon as an error is remedied and the message confirmed, the next existing error is displayed. The list is displayed until all errors have been remedied and all messages confirmed.

### 7 Data Point Entry

Data point entry in the data point list; additional information in Section <u>Configuring Data</u> <u>Points.</u>

### Buttons

Designation	Description
[Down]	To scroll downward page by page, click this button.
[Up]	To scroll upward page by page, click this button.
[Select all inactive]	When this button is clicked, all inactive connections are selected.
[Select all active]	When this button is clicked, all active connections are selected.
[Deselect all]	When this button is clicked, all data points are deselected.
[Select all]	When this button is clicked, all data points are selected so settings can be made for several of them at the same time.



### 5.3.1. Configure Data Points



### Note

#### First create an additional backup!

Create an additional backup on an SD card and / or via FTP before changing the gateway configuration. If no external FTP server is available, you can specify "localhost" as the IP address to store the file locally in the file system of the controller!

1	2	3 4	5	6	7	8	9
	Select	Error Enable	Input	Function	Output	Value	read/write by
0		۲	KNX Wohnung : 1.OG Badezimmer Decke Bel. 1/3 ein/aus	->	ModbusRTU1 : 1.0G Wohnzimmer Jalousie auf/ab	False	cov(10.0%)

### **1** Entering data points

A consecutive number is displayed here.

#### 2 Selection

Here, one or several data points can be selected for group parameterization. The selected data points are marked in gray.

#### 3 Error

Whether a communication error has occurred is displayed here. The error is saved until it is confirmed. Even though an error was detected, continuing attempts are made to establish communication and update the data point.

#### Enable

A data point connection can be activated/deactivated here. The respective operating status is displayed.

#### 5 Input

The input data point is displayed here. Clicking the cell opens the "Connection Entry" dialog.

#### Function

The current Gateway function is displayed here. In this example, the input value is transferred directly to the output value. Click the cell to open the configuration window for the <u>Gateway Function</u>.

#### 7 Output

The output data point is displayed here. Clicking the cell opens the "Connection Entry" dialog.

#### Value

The most recently sent output value is displayed here. Whether or not a data point is sent depends on the settings in the "<u>Read/Write Conditions</u>" dialog.



### Read/Write Conditions

The conditions that must be met to copy the input value to the output value are set here. Click the cell to open the configuration window.

### 5.3.1.1. Gateway Function

To open the "Gateway Function" dialog window, click the corresponding cell in the "Function" column.



### Input

Displays the current name and measurement value of the input.

### Value Ranges

Designation	Description
Output Value Range	In these entry fields, the value range for the output can be set. This range is used for the scaling and is permanently associated with the output data point.
Input Value Range	In these entry fields, the value range for the input can be set. This range is used for the scaling and is permanently associated with the input data point.
Scaling Activate	When this checkbox is checked, the scaling is activated.
Min./Max. Limit	When this checkbox is checked, the output value is limited to the range set in the value range.

### 3 Output

Displays the current name and measurement value of the output.

Pressing the [**Ok**] button adopts the settings and closes the dialog box. Pressing the [**Cancel**] button closes the dialog window without accepting the settings.



### 5.3.1.2. Read/Write Conditions

To open the "Reading/Writing Conditions" dialog window, click the corresponding cell in the "Read/ Write Conditions" column.

	Read/Write Conditions
1 -	Write by value change (cov)
	Change: 10.0 %
2 —	Read/Write by cycle (cycle)
_	Cycle Time: 1 s
	OK Cancel

### Writing for Changes (cov)

Designation	Description
Write	When this checkbox is checked, the monitoring of "Value Changes (cov)" is activated. When the function is active, a value that is changed on the input is transferred to the output.
Relative Change	Absolute or relative value change monitoring can be selected by checking/ unchecking the checkbox. This function is only active when the checkbox "Write" is checked! If "Relative Change" is active, a percent sign is displayed after the checkbox.
Change	The absolute or relative value is entered in this entry field.

### 2 Cyclical Reading/Writing (cycle)

Designation	Description
Write	When this checkbox is checked, the output values are written cyclically.
Read	When this checkbox is checked, the input values are read out cyclically.
Cycle Time	The cycle time in seconds is entered in this entry field.

Pressing the **[Ok]** button adopts the settings and closes the dialog box. Pressing the **[Cancel]** button closes the dialog window without accepting the settings.



### 5.3.2. Data Point Connection

The dialog window "Item Connection No. n" is opened by clicking the cell of a data point in the columns "Input" or "Output."



## Note

**Disable affected data points before editing connection entries!** Changes in the dialog window "Item Connection No. n" are applied immediately and are not reversible with the button [**Cancel**]! Therefore deactivate the affected data points before editing connection entries!

ıs IP	Mod	ous RTU KNX			3	Output Modbus IP	Modb	NUS RTU KNX		
Interface: KNX: Wohnung 🗸 🗸			~			Device Wago 750-8	41			
ted	Select	Name	Grp. Adr.	Туре		Conected	Select	Name	Register	Туре
		OG Stromzähler Zählerstand Wirkendergie kW	0/2/9	1Bit (DPT 1)				1.OG Wohnzimmer Jalousie auf/ab	12288	int (FC3/6)
		1.OG Wirkenergie gesamt kW	0/2/10	4Byte (DPT 12)				1.OG Wohnzimmer Jalousie stop	12289	bool (FC1/5)
		1.0G Wirkenergie L1 kW	0/2/11	4Byte (DPT 12)		->		1.OG Alle Jalousien auf/ab	12290	bool (FC1/5)
		1.0G Wirkenergie L2 kW	0/2/12	4Byte (DPT 12)				1.OG Alle Jalousien stop	12291	byte (FC3/6)
		1.OG Wirkenergie L3 kW	0/2/13	4Byte (DPT 12)				Datum	12292	byte (FC3/6)
		1.OG Leistungfaktor gesamt	0/2/14	4Byte (DPT 12)				Uhrzeit	12293	byte (FC3/6)
		1.OG Stromzähler Strom L1	0/2/15	4Byte (DPT 12)				1.0G Stromzähler Statuswert anf.	12294	byte (FC3/6)
		1.0G Stromzähler Strom L2	0/2/16	4Byte (DPT 12)				1.OG Stromzähler Statusbyte	12295	byte (FC3/6)
	Ē	1.0G Stromzähler Strom L3	0/2/17	4Byte (DPT 12)				1.0G Stromzähler Fehlermeldung	12296	byte (FC3/6)
	Ē	1.OG Stromzähler Spannung L1	0/2/18	4Byte (DPT 12)				1.OG Stromzähler Typ	12297	none
		1.0G Stromzähler Spannung L2	0/2/19	4Byte (DPT 12)				1.0G Stromzähler Falscher Typ	12298	none
		1.OG Stromzähler Spannung L3	0/2/20	4Byte (DPT 12)				1.OG Stromzähler Netzausfall senden	12299	bool (FC1/5)
	Ē	1.0G Stromzähler Frequenz	0/2/21	1Byte (DPT 6)			Ē	1.0G Stromzähler Netzausfall löschen	12300	bool (FC1/5)
		1.OG Alle Steckdosen ein/aus	0/3/0	1Bit (DPT 1)				.OG Stromzähler Zählerstand Wirkendergie kW	12301	uint (FC3/6)
		1.OG Wohnzimmer Steckdose Mitte ein/aus	0/3/1	1Bit (DPT 1)				1.OG Wirkenergie gesamt kW	12302	bool (FC1/5)
		1.0G Wohnzimmer Steckdose Rechts ein/aus	0/3/2	1Bit (DPT 1)				1.OG Wirkenergie L1 kW	12303	byte (FC3/6)
		1.0G Wohnzimmer Fensterbank	0/3/3	1Bit (DPT 1)				1.OG Wirkenergie L2 kW	12304	byte (FC3/6)
		Zentral Alles Bel ein/aus	1/1/0	1Bit (DPT 1)				1.OG Wirkenergie L3 kW	12305	byte (FC3/6)
	Ē.	1.OG Badezimmer Decke Bel. 1/3 ein/aus	1/1/1	1Bit (DPT 1)				1.OG Leistungfaktor gesamt	12306	byte (FC3/6)
	Π	1.OG Badezimmer Decke Bel. 2/3 ein/aus	1/1/2	1Bit (DPT 1)			Π	1.0G Stromzähler Strom L1	12307	byte (FC3/6)
	F	1 OG Radazimmar Dacka Rol. 3/3 ain/auc	1/1/2	1Rute (DDT A)			Π	1 OG Stromzähler Strom I 2	1220.9	hute (EC3/6

### Item Connection

The consecutive number of the data point connection is displayed here.

### 2 Font Size

Use the slider to adjust the font size in the data point list.

### Input

In this area, the input data point is specified and edited; see Sections <u>MODBUS IP Data</u> <u>Point, MODBUS RTU Data Point</u> and <u>KNX Data Point</u>.

### Output

In this area, the output data point is specified and edited; see Sections <u>MODBUS IP</u> <u>Data Point</u>, <u>MODBUS RTU Data Point</u> and <u>KNX Data Point</u>.



### 5 Buttons

Designation	Description
[Select all]	When this button is clicked, all data points are selected so settings can be made at the same time.
[Deselect all]	When this button is clicked, the selected data points are deselected.
[Apply & Next Connection]	When this button is clicked, the entry is confirmed and the next connection opens automatically. The current data point number is displayed in the title of the dialog.

Pressing the [Ok] button adopts the settings and closes the dialog box.

Pressing the [Cancel] button closes the dialog window without accepting the settings.



#### 6 Input Modbus IP Modbus RTU KNX 7 Wago 750-841 Device Register int (FC3/6) 1.OG Wohnzimmer Jalousie auf/ab 12288 1.OG Wohnzimmer Jalousie stop 12289 bool (FC1/5) 1.OG Alle Jalousien auf/ab bool (FC1/5) 12290 1.OG Alle Jalousien stop 12291 byte (FC3/6) Datum 12292 byte (FC3/6) Uhrzeit 12293 byte (FC3/6) 1.OG Stromzähler Statuswert anf. 12294 byte (FC3/6) 1.OG Stromzähler Statusbyte 12295 byte (FC3/6) byte (FC3/6) 1.OG Stromzähler Fehlermeldung 12296 1.0G Stromzähler Typ 12297 none 1.OG Stromzähler Falscher Typ 12298 none 1.OG Stromzähler Netzausfall senden 12299 bool (FC1/5) 1.OG Stromzähler Netzausfall löschen 12300 bool (FC1/5) OG Stromzähler Zählerstand Wirkendergie kW 12301 uint (FC3/6) 1.OG Wirkenergie gesamt kW 12302 bool (FC1/5) 12303 1.OG Wirkenergie L1 kW byte (FC3/6) 1.OG Wirkenergie L2 kW 12304 byte (FC3/6) 1.OG Wirkenergie L3 kW 12305 byte (FC3/6) 1.OG Leistungfaktor gesamt 12306 byte (FC3/6) 1.OG Stromzähler Strom L1 12307 byte (FC3/6) 12202 huta (EC3/6) 8

### 5.3.2.1. Modbus IP Data Point

### Communication Type Selection

The selected communication type is displayed here. In this tab, a different communication type can be changed to.

### 2 Connected

The data point for communication (input/output) is selected here.



#### 3 Select

One or several data points can be selected here. The parameters of the data point that can be adjusted together are marked in gray.

### A Name

To edit the data point name, click the corresponding cell in the "Name" column.

### Register

To enter the register to be read out or to write, click the corresponding cell in the "Register" column.

### 👩 Туре

The data type of the configured data point is displayed here. Clicking the corresponding cell opens an entry dialog for changing the data point.

#### 7 Device

The device to be filed in the hardware configuration is selected in this selection field.

### 8 Select All

Click [Select All] to select all data points, so settings can be made at the same time.

### Deselect All

Click [Deselect All] to deselect the selected data points.



### 5.3.2.2. Modbus RTU Data Point

### Communication Type Selection

The selected communication type is displayed here. In this tab, a different communication type can be changed to.

### 2 Connected

The data point for communication (input/output) is selected here.



#### 3 Select

One or several data points can be selected here. The parameters of the data point that can be adjusted together are marked in gray.

### A Name

To edit the data point name, click the corresponding cell in the "Name" column.

### 5 ID

The address ID of the MODBUS RTU node can be entered in this entry field.

### Register

To enter the MODBUS register to be read out or write, click the corresponding cell in the "Register" column.

### 7 Туре

The data type of the configured data point is displayed here. Clicking the corresponding cell opens an entry dialog for changing the data point. Depending on the connection configuration, the application automatically decides whether the data point is read or written.

#### **Binary Statuses**: FC1 Read Coil Status FC5 Force Single Coil **Numeric Values**: FC3 Read Holding Registers FC6 Preset Single Register

### Interface

In this selection field, the hardware interface to be used can be selected. The name can be edited in the **Hardware** menu in the "Interface Settings" dialog.

### Select All

Click [Select All] to select all data points, so settings can be made at the same time.

### 10 Deselect All

Click [Deselect All] to deselect the selected data points.



s IP Mo	dbus RTU KNX				
	Interface: KNX Wohr	nung	ng 🗸 🗠		
ted Selec	t Name	Grp. Adr.	Туре 🔼		
	OG Stromzähler Zählerstand Wirkendergie kW	0/2/9	1Bit (DPT 1)		
	1.OG Wirkenergie gesamt kW	0/2/10	4Byte (DPT 12)		
	1.OG Wirkenergie L1 kW	0/2/11	4Byte (DPT 12)		
	1.OG Wirkenergie L2 kW	0/2/12	4Byte (DPT 12)		
	1.OG Wirkenergie L3 kW	0/2/13	4Byte (DPT 12)		
	1.OG Leistungfaktor gesamt	0/2/14	4Byte (DPT 12)		
	1.OG Stromzähler Strom L1	0/2/15	4Byte (DPT 12)		
	1.OG Stromzähler Strom L2	0/2/16	4Byte (DPT 12)		
	1.OG Stromzähler Strom L3	0/2/17	4Byte (DPT 12)		
	1.OG Stromzähler Spannung L1	0/2/18	4Byte (DPT 12)		
	1.OG Stromzähler Spannung L2	0/2/19	4Byte (DPT 12)		
	1.OG Stromzähler Spannung L3	0/2/20	4Byte (DPT 12)		
	1.OG Stromzähler Frequenz	0/2/21	1Byte (DPT 6)		
	1.OG Alle Steckdosen ein/aus	0/3/0	1Bit (DPT 1)		
	1.OG Wohnzimmer Steckdose Mitte ein/aus	0/3/1	1Bit (DPT 1)		
	1.OG Wohnzimmer Steckdose Rechts ein/aus	0/3/2	1Bit (DPT 1)		
	1.0G Wohnzimmer Fensterbank	0/3/3	1Bit (DPT 1)		
	Zentral Alles Bel ein/aus	1/1/0	1Bit (DPT 1)		
	1.OG Badezimmer Decke Bel. 1/3 ein/aus	1/1/1	1Bit (DPT 1)		
	1.OG Badezimmer Decke Bel. 2/3 ein/aus	1/1/2	1Bit (DPT 1)		
	1 OG Radazimmar Dacka Rol. 3/3 ain/aue	1/1/2			

### Communication Type Selection

The selected communication type is displayed here. In this tab, a different communication type can be changed to.

### 2 Connected

The data point for communication (input/output) is selected here.



40/44



#### 3 Select

One or several data points can be selected here. The parameters of the data point that can be adjusted together are marked in gray.

### 4 Name

To edit the data point name, click the corresponding cell in the "Name" column.

### **5** Group Address

The data point group address is entered here. The address is entered in three sections and can be taken or imported from the KNX programming software (ETS).

### 👩 Туре

The data type of the configured data point is displayed here. Clicking the corresponding cell opens an entry dialog for changing the data point.

### Interface

In this selection field, the hardware interface to be used can be selected. The name can be edited in the **Hardware** menu in the "Interface Settings" dialog.

### Select All

Click [Select All] to select all data points, so settings can be made at the same time.

### Deselect All

Click [Deselect All] to deselect the selected data points.



## 6. Performance

The information below serves as a guideline for transferring a value from one interface to another, taking into account the total number of data points activated in the Gateway Application. If there is additional data traffic on an interface at the same time, the delays are longer depending on the interface.

Source Interface	Target Interface	Active Datapoints	Expected Delay [ms]
		1	about 250
	Modbus RTU	100	about 400
		(max. Interface) 256	about 600
		(max. Application) 1000	about 1650
	Modbus IP	1	about 200
		100	about 300
		(max. Interface) 256	about 600
		(max. Application) 1000	about 1700

Source Interface	Target Interface	Active Datapoints	Expected Delay [ms]
		1	about 400
	KNX Modbus IP	100	about 600
		(max. Interface) 256	about 1300
		(max. Application) 1000	about 1850
		1	about 200
		100	about 400
		(max. Interface) 256	about 950
		(max. Application) 1000	about 3150

Source Interface	Target Interface	Active Datapoints	Expected Delay [ms]
		1	about 400
	Modbus RTU KNX	100	about 600
		(max. Interface) 256	about 1450
Madhua ID		(max. Application) 1000	about 4650
		1	about 700
		100	about 800
		(max. Interface) 256	about 1400
		(max. Application) 1000	about 4000







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