SIEMENS

5701

Web server

OZW772.. V12.0

For Synco™, Synco™ living

Web server OZW772.. allows for remote plant control and monitoring via the web and Smartphone App.

Four versions of the web server OZW772.. are available: To connect 1, 4, 16, or 250 Synco devices from product ranges Synco 700, room controllers RXB/RXL, RDG/RDF/RDU room thermostats, and the QAX9… Synco living central apartment units.

- **Operate web browser via PC/laptop or Smartphone.**
- **Operation via Smartphone App (iPhone and Android)**
- **Operation via the Synco IC Internet portal with auxiliary functions**
- **Operation and monitoring of KNX S-Mode devices (Lighting, blinds, energy and volume meters, etc.)**
- **Visualize the plants in the web browser based on standard plant diagrams and customized plant web pages.**
- **Gateway for remote operation of the M-bus web server WTV676-HB6035 via Synco IC**
- **Display fault messages in the web browser.**
- **Send fault messages to a maximum of 4 e-mail recipients.**
- **Periodic sending of system reports to a maximum of 4 e-mail recipients.**
- **Consumption data recording, display, and sending to 2 e-mail recipients or to the FTP server**
- **Create trends, trend graphs and send trend data to 2 e-mail recipients or to the FTP server**

- **Function "Energy indicator" for monitoring data points for energy-technical limit values, so-called “Green limits", and sending them to 2 e-mail recipients**
- **Web services for external applications via Web API (Web Application Programming Interface)**
- **Encrypted with https and TLS V1.3 for e-mails (all connections).**
- **ACS790 functionality.**
- **Secure tunnel connection for ACS and ETS via Synco IC**
- **Time sync via NTP network time server**

Use

Building

- Apartments in single and multi-family homes.
- Office and administrative buildings, residential housing.
- Schools, gymnasiums, leisure facilities, hotels.
- Municipal buildings, smaller industrial buildings.

Owners/operators

- End customers, HVAC and electrical installers.
- Real estate companies, real estate management companies.
- Building maintenance companies, energy and facility management.

Functions

Commissioning

Commissioning using a PC/laptop via web browser and as an option with ACS. ETS (Version 4 or 5) is used to configure KNX S-Mode components.

Web operation

- Remote operation and monitoring and devices on one KNX network with web browser on PC/laptop and smartphone.
- Access via Synco IC Internet portal or direct connection
- Simultaneously supports multiple users.
- User accounts for web operation (user groups, operating language).
- Set up visualized operation based on standard plant diagrams (loaded via HVAC Integrated Tool, HIT) or customized plant web pages.

Access via Synco IC

Siemens offers with the Climatix IC / Synco IC Internet portal simple and secure access to web servers (available as of web server version 5.2).

Benefits

- Simple and fast set up of access via the Internet – neither a fixed IP address, nor forwarding of a dynamic IP address, nor port forwarding (NAT/PAT) is required
- Synco IC provides additional functions:
  - Manage one or multiple plants
  - Central user management
  - Display of plant overview, state of Energy indicators, and alarms
  - Plant functional scope can be set for various plant roles
  - Logging fault messages as common faults
  - Send alarm notifications per e-mail
  - Secured communications through encryption (https)

Access in Synco IC via OZW gateway

Web server OZW772.. can also be used as a gateway for remote operation of the M-bus web server WTV676-HB6035 in Synco IC. Before accessing the M-bus web server, you must register in Synco IC and configure and activate the OZW gateway. Once the OZW gateway is activated, you can no longer access the OZW web page via Synco IC.

Benefits

- Remote operation of the M-bus web server anywhere at any time
- Central management of multiple plants (M-bus web server and OZW) over a common account in Synco IC
- Direct access to the web view of the M-bus web server and OZW over Synco IC

Access without Synco IC Internet portal (direct connection)

Direct access to the web server is possible via USB or Ethernet (without Synco IC). A direct connection in parallel to the Synco IC Internet portal is possible.

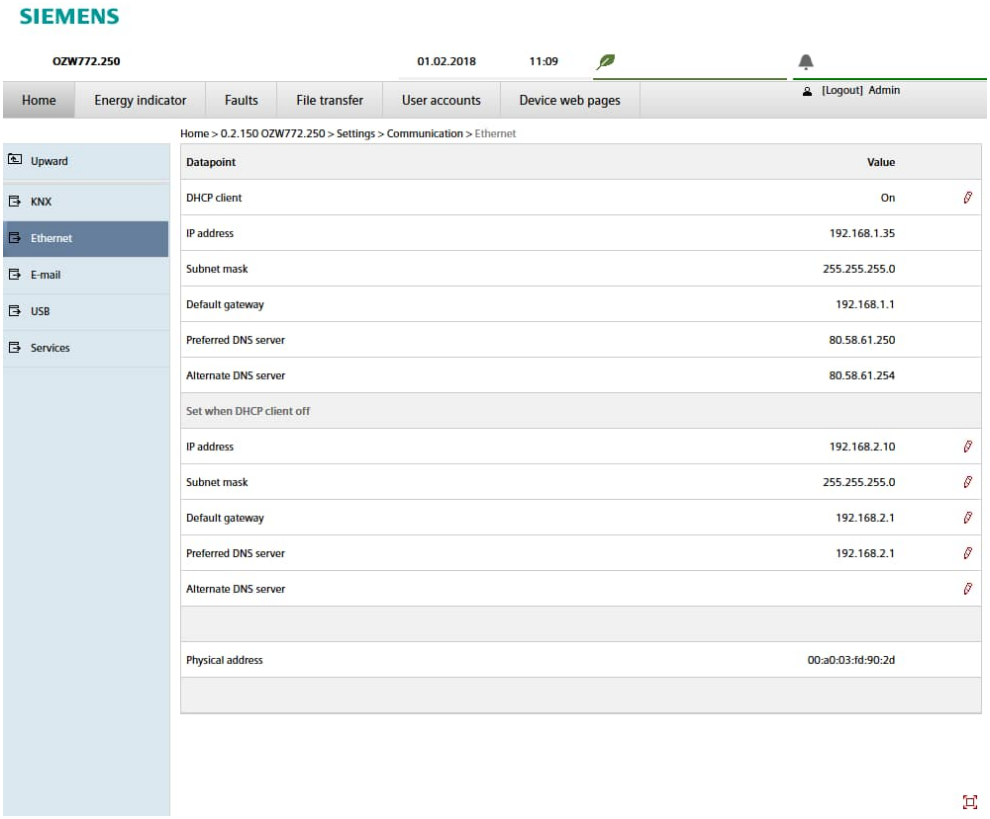
Direct Internet access (Synco IC)

A connection (e.g. DSL router) is required to connect directly via the Internet. The web server is not suitable for connecting directly to the Internet since it does not have a firewall. A firewall is normally a component of the DSL router.
Port forwarding must be configured on the router to connect directly to the Internet. We recommend against this, since this opens up the firewall.
For security reasons (data protection), we recommend using the Synco IC portal. The secure tunnel connection used with the Synco IC portal is more secure than a direct connection.
Set up a VPN connection as a secure alternative.

Web user interface

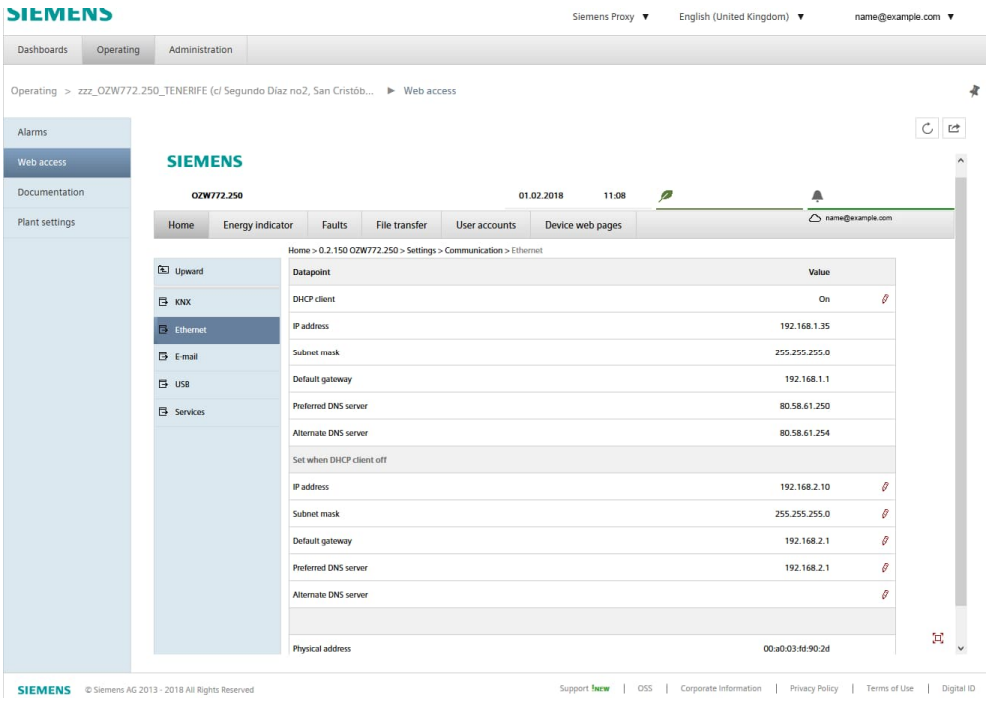
The web server user interface is the same as when using the Synco IC Internet portal and when connected directly to Synco IC also includes additional functions and settings.

User interface
web server
(Direct connection)



In the web server user interface, the user symbol and user name are in place of the Synco IC portal symbol .

User interface portal Synco IC



Click the symbol to open the web server user interface under a new tab and is then the same as the view under a direct connection.

The Synco IC portal symbol and e-mail address is displayed in place of the user symbol and user name.

Primary navigation

Primary navigation offers the following functions:

Home	Menu-based plant and device operation.
Energy indicator	Display and operating of "Energy indicator" data points (Displayed only if a controller is connected with an Energy indicator)
Faults	Display system faults.
File transfer	Create and manage trend functions Download consumption data and message history, upload documents, logos, and system definitions as well as firmware update
User accounts	User administration.
Device web pages	Create device list and operating pages.

Secondary navigation

The secondary navigation (menu tree) allows users to select devices and operating pages. As of OZW version 5.0, the KNX pages defined in ETS are displayed here as well.

Display

The display range displays content corresponding to the selected primary and secondary navigation.

Plant state

The display indicates no fault or the most serious plant fault depending on plant state.

Faults

Fault sources

The web server recognizes failures and fault signals from KNX devices contained in the device list. Own faults also are recognized.

Fault display, fault acknowledgement

The LED signals a fault on the web server 🔔. LED blinks to indicate that a fault is unacknowledged.🔔 The LED continues to be lit for as long as the fault is pending after the fault is acknowledged with the ✔ button via web operation or ACS. (See page 10 for LED displays and operating buttons).

Fault status message

Fault status messages can be sent as an e-mail to as many as 4 e-mail recipients and/or via a service provider to SMS recipients. You can set the fault priority for each e-mail recipient (urgent/all). Each receiver has a "Time switch with calendar" to program three sending times per day and holidays/special days.

Common fault

On the Synco IC Internet portal, faults are logged as common faults. The Synco IC portal sends alarm notifications to the defined e-mail addresses in the event of a common fault.

System report

System messages

The web server generates system reports and periodically sends the system operating state to e-mail recipients. Messages are sent as per the set time (hh:mm), message cycle interval (1...255 days), and priority (urgent/non-urgent).

Connection test

Press the button ✔ on the web server to send a system report to all defined e-mail recipients regardless of fault priority.

History

The last 500 fault events, fault messages and system reports are entered in the web server's circular message buffer. The event or history data can be read via web browser.

Time

The web server has a system clock with adjustable time zone and daylight saving/standard time changeover. As clock time master, it can send the set system time (date and time) to KNX devices (clock time slave).
For the system clock, the NTP network time server can perform the time synchronization and, if used as a time clock master, forward the data to all KNX devices (time clock slaves).

Updates

We differentiate between the following:

- System definition updates to integrate device descriptions of new devices in the web server.
- Firmware updates to update the web server to the latest firmware version. The user settings and system definitions remain as part of a firmware update.
- Factory update to update the web server to the latest version and load the latest system definitions. User settings are lost as part of a factory update.

A system definition update and the firmware update requires one simple action via the web browser.
Operator actions on the web server are required for the factory update. Procedures are communicated when a factory update is issued.

ACS790

The web server is compatible with the service and operating software ACS790 version 10.00 and higher.

Secured connection via Synco IC

On web servers as of V7.0, you can establish a secure connection to the web server with the ACS790 and the "Remote Tool Access" software via Synco IC portal.

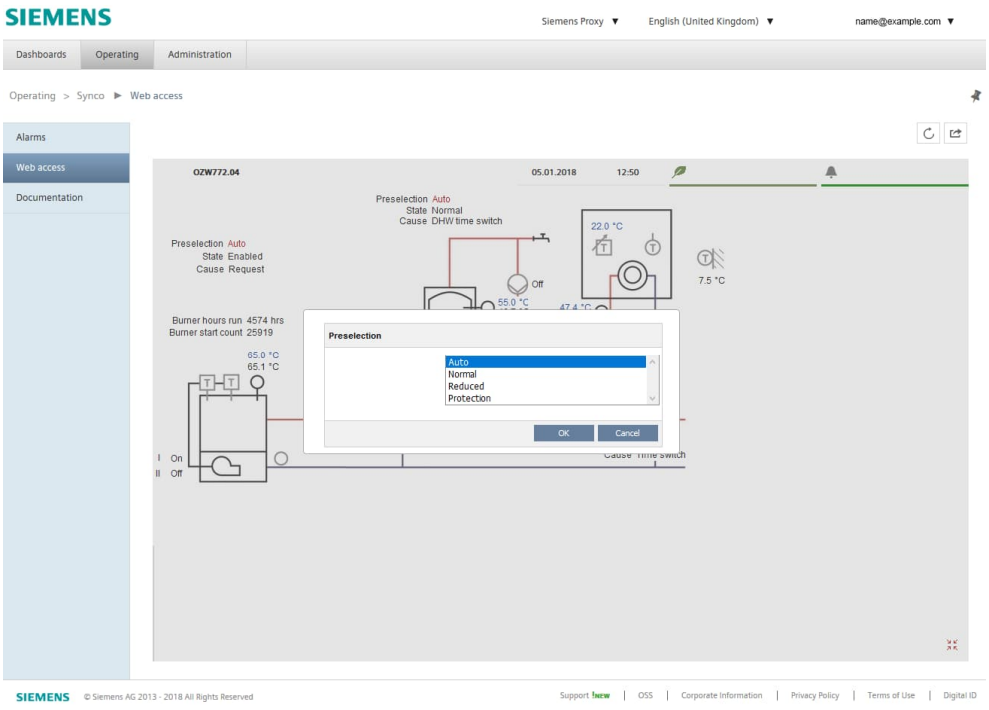
Visualize plants

Web server OZW772.. allows for visualizing technical equipment (HVAC, electrical, energy values) in buildings via plant web pages. For example, a plant web page can be set up visualizing a plant with data points (max. 100 data points per plant web page) on a floor plan.

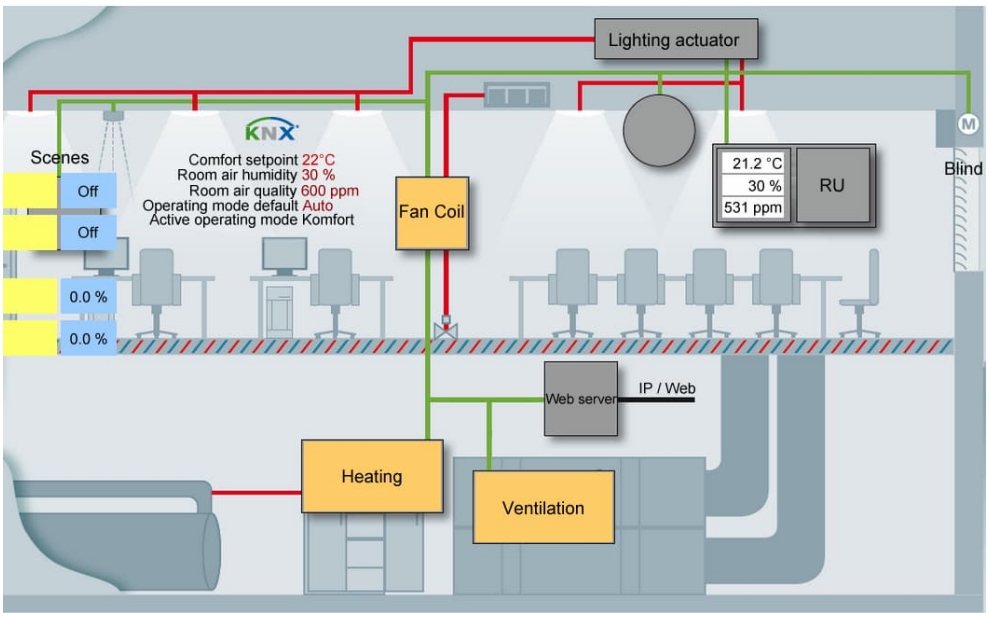
In the event of a fault, users can quickly access the impacted locations.

Double-click writable parameters to open a dialog box and edit the value.

Example
Plant web pages for heating plant



Example
Plant web pages for HVAC and lighting, blinds



Download plant diagrams

You can download web-capable plant diagrams from the HIT online platform for standard applications on Synco 700 devices, room controllers RXB/ RXL, and room thermostats RDG/RDF/RDU.

Create own plant web pages

You can freely design plant web pages. As a hybrid form, you can also modify and extend downloaded plant diagrams.

Web page elements

Users can also embed additional data in a plant diagram such as energy values (version 5.0) or links to plant, function and maintenance descriptions or data sheets. Moreover, users can integrate external links allowing, for example, for direct browsing multiple plants. Users can embed current webcam images in a plant diagram.

KNX S-Mode

Integration of KNX S-Mode data points permits central control of heating, ventilation, air conditioning, and electrical installations.
Data points recording by OZW can be used, for example, for trending, to depict the plant diagram or reused for thermal or electrical energy consumption.

Number of S-Mode data points

Version OZW772.01 supports 7 standard data points for system time and alarm info functions.

For version OZW772.04/16/250, the following of data points can also be integrated:

Data point sub-types	**No.**
1 bit value	100
2 bit switching controlled	5
1 byte value	40
1 byte scene	5
2 byte value	40
4 byte value display	40
Amount	230

KNX interfaces

The web server OZW772.. also assumes the KNX/IP interface, (KNXnet/IP), using its Ethernet interface.
Separate devices to connect the ETS to the KNX bus via Ethernet are no longer necessary.

Group monitoring

Web server OZW772… supports the ETS diagnostic function "Group Monitoring" as of version 6.0.

Secure connection via Synco IC

You can establish a secure connection to web server as of version 7.0 using ETS and the "Remote Tool Access" software via the Synco IC.

Trend function

The trend function can be defined directly in the web server OZW772.. as of version 5.0.
Any number of data points for connected devices can be logged at a selectable sample rate and queried using the trend function.

Data points for devices integrated via KNX S-Mode are also available for the trend function.

Trend channels

5 trend channels are available: Each trend channel can include up to 100 data points. The trend channel can be labeled using a plain text name.

Sample rate

The sample rate can be created individually for each trend channel. Sample rates from 1 second to 25 hours are available.
The shortest possible sample rate over all 5 trend channels is 1 data point per second.

Trend period

Memory determines the possible trend period of a trend channel. The trend period varies with the number of selected data points and their sample rate.

Examples for various trend channels:

Interval	Data points	Trend period	
		Channel 1	Channel 2…5
1 sec	1	14 days	1.8 days
5 sec	5	30 days	4.3 days
1 min	10	210 days	30 days
15 min	100	371 days	53 days

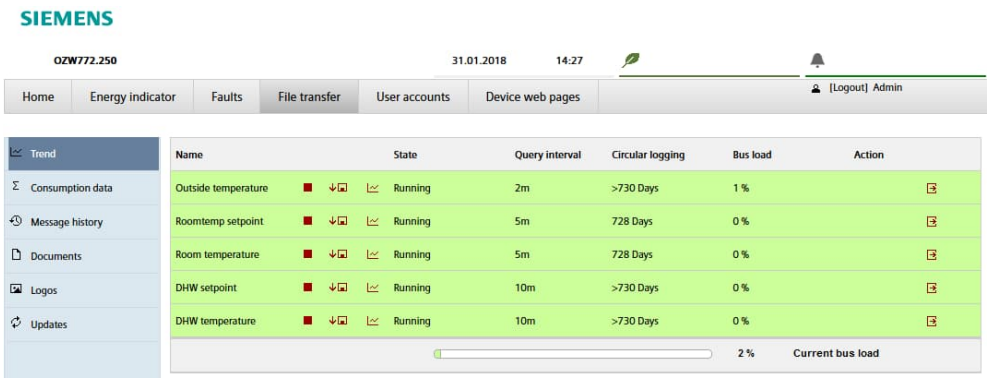
Memory that is 7 times greater is available in trend channel 1 for long-term trending with a lot of data points, or short sample intervals.

Synchronization

Trends are synchronized to simply the evaluation of trend data. The various query intervals for the trends are set up on one interval grid.

Operation

A web browser or the ACS tool creates and manages trend functions.

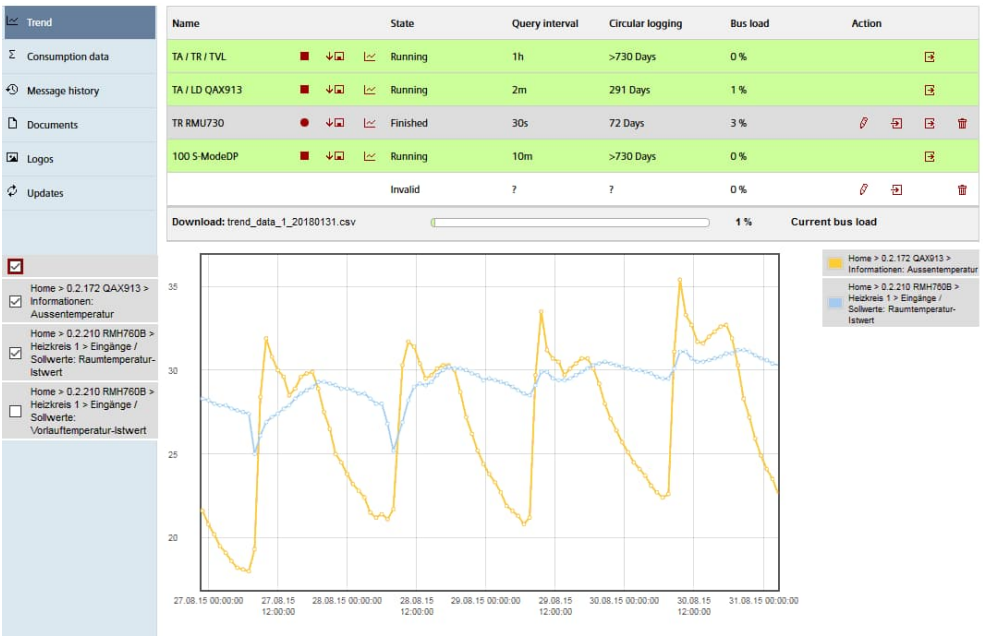


Data query per web browser

The trend data can be downloaded for each channel using a web browser and viewed in a spreadsheet program or text editor. The calendar function permits limiting the trend data to a desired time period within the trend.
Users can access the web server either directly or remotely via Synco IC.

Trend graph

The data for a trend channel can be graphically displayed on the web user interface. The function is available for OZW772.. as of version 6.0.



Data transmission per e-mail

Up to 2 e-mail recipients can be defined for the trend data.
Each trend channel can send its data to one or both e-mail recipients. The send interval can be set individually for each trend.

Import/Export

Trend definitions can be imported to the web server or exported from the web server.

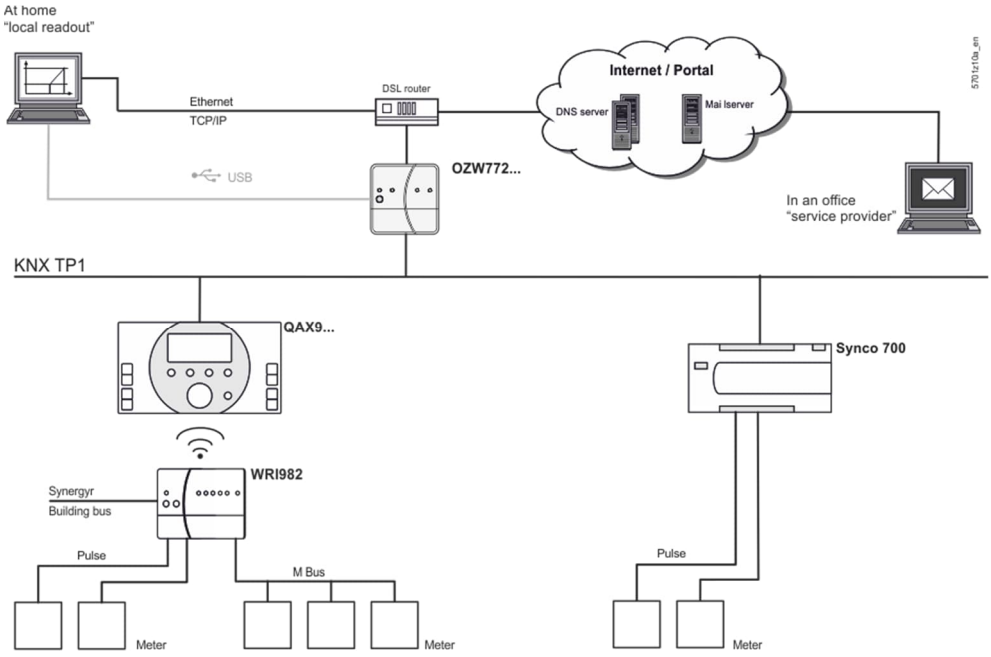
Consumption data trending

The "consumption trend" function is available in web server OZW772.. as of version 3.0. The following devices are supported:

- Synco 700: RMU7x0B, RMH760B, RMK770 (as of version 2.0), RMS705, RMS705B, RMB795, RMB795B
- Synco living: Central apartment unit QAX903, QAX913

OZW772.. as of version 5.0

Energy and volume meters that use KNX data points are supported with the integration of KNX S-Mode as of web server version 5.0.
The meter is connected directly or via KNX adapter to the KNX bus and transmits its data as per the configuration made in ETS.



Meter

Current consumption data is saved in the meters (legal requirement).

QAX / Synco 700

- Every 4 hours, central apartment unit QAX9… receives raw data via KNX radio.
- Synco 700 controllers generate the meter data via pulse inputs as per the configured values.

Consumption data can be viewed on individual QAX central units or Synco controllers using the associated menus.

Web server, local or remote

The web server offers comfortable access to consumption data:

- Web browser operation users to navigate to the consumption data of the associated devices.
- Easier still: Or a consumption data file can be downloaded from the web server. The file contains a list of consumption data for all QAX units (apartment units) and Synco controllers.
- Users can access the web server either directly or remotely via Synco IC.

Web server, e-mail

Consumption data can be sent periodically (set up via web server) to max 2 e-mail recipients (e.g. billing company).

Function "Energy indicator"

The "Energy indicator" function is available in web server OZW772.. as of version 4.0. The following devices are supported:

- Synco 700: RMU7x0B, RMH760B, RMK770 (as of version 2.0), RMS705B, RMB795B
- Synco living: Central apartment unit QAX903, QAX913, QAX910 (as of version 3.0)
- Room controllers: RXB2x, RXL2x, RXB3x, RXL3x
- Room thermostats: RDF301, RDU341, RDGx00KN

The web server uses the "Energy indicator" function to read selected data point values from the bus devices and to compare the values to energy-related limit values, or so-called "Green limits".

The data points are also monitored for adherence to the "Green limits".
As a result, the "Energy indicator" is displayed in the form of a tree leaf.

Note

The "Green limits" are used only together with the "Energy indicator" function. They do **not** represent process or safety limit values which trigger e.g. fault messages or turn off the plant in the event of limit violations.

Web server, e-mail

The "Energy indicator" can send its information periodically (adjustable via web server) to a maximum of 2 e-mail recipients.

Tree leaf as "Energy indicator"

Green leaf 

"Green leaf" → Green tree leaf, leaf pointing up.

- The "Green leaf" symbol indicates that a data point value has not exceeded its "Green limit", i.e. the value is within a "green" range in terms of energy consumption.

Orange leaf 

"Orange leaf" → Orange tree leaf, leaf pointing down.

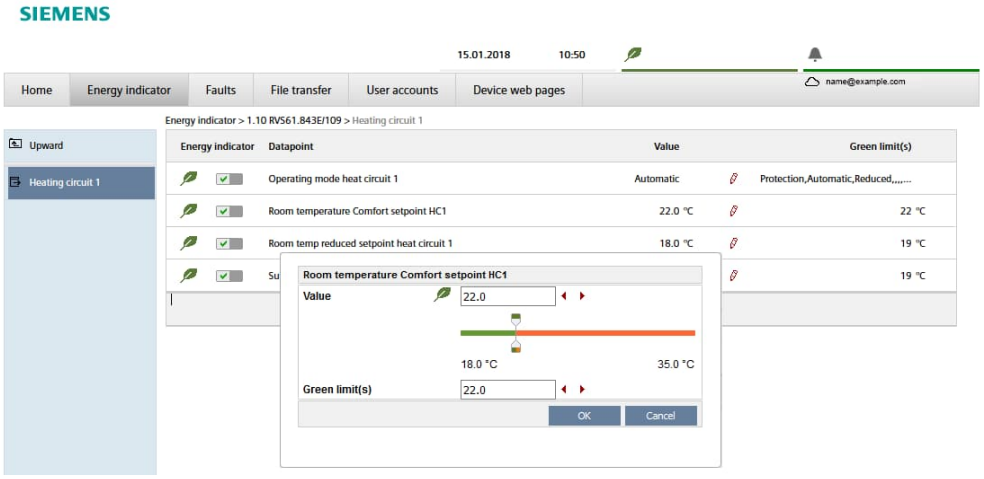
- The "Orange leaf" symbol indicates that a data point value has exceeded its "Green limit", i.e. the value is outside a "green" range in terms of energy consumption.

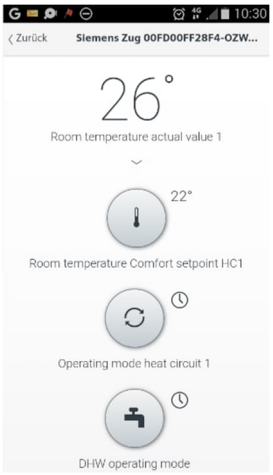
Standard EN 15232

The "Energy indicator" function is based on standard EN 15232 "Energy efficiency in buildings".

Example: "Energy indicator" web page function

Web page with "Energy indicator" function; example with data points from "Room 1" and open dialog box to set data point value "Comfort heating setpoint" and its "Green limit" (for "Room 1").





The "Web Application Programming Interface" (Web API) is an interface to provide web services client to the web server.

All web API functions are started via "http" or encrypted with "https". Each session starts with authentication at the web server.

If "Home Control IC" App is installed on a smartphone, the app accesses, using the web services, via web API, data points for devices on the KNX network (Communication connection for smartphone, see page 14).

FTP server

Trend and consumption data can be regularly sent to a FTP server.
The interval can be adjusted.
The following transmission protocols are supported:

FTP	File Transfer Protocol	Unencrypted and therefore not recommended
FTPS	FTP over TLS	TLS encrypted communication with the FTP server
SFTP	SSH File Transfer Protocol	FTP tunneling via a SSH (Secure Shell) connection

Type summary

Name		KNX S-Mode	Product number
Web server	For 1 Synco device	7 data points	OZW772.01
Web server	For 4 Synco devices	250 data points	OZW772.04
Web server	For 16 Synco devices	250 data points	OZW772.16
Web server	For 250 Synco devices	250 data points	OZW772.250

Ordering and delivery

When ordering, please specify the name and **product number**. Example:

- Web server **OZW772.16**

The web server is delivered in a cardboard box.
The following is included in the package:

- Mounting instructions M5701xx (multilingual).
- Package insert with activation key for portal access.
- Power cable, power supply AC 230 V.
- Ethernet cable.
- USB cable.
- 2 cable ties.

Equipment combinations

The following Synco devices can be connected to the web server OZW772..

Synco range

	Synco devices		Data sheet no.
Synco 700	Universal controllers	RMU7x0, RMU7x0B	N3144, N3150
	Heating controllers	RMH760, RMH760B	N3131, N3133
	Boiler sequence controllers	RMK770, RMK770 V2	N3132
	Central control units	RMB795, RMB795B	N3121, N3122
	Switching & monitoring units	RMS705, RMS705B	N3123, N3124
	Bus operator unit	RMZ792	N3113
	Room unit	QAW740	N1633
	Central communication unit	OZW771, OZW775	N3117, N5663
Synco RXB/RXL	Room controllers	RXB21.1, RXB22.1	N3873
	Room controllers	RXL21.1, RXL22.1	N3877
	Room controller	RXB24.1	N3874
	Room controller	RXL24.1	N3878
	Room controller	RXB39.1/FC-13	N3875
	Room controller	RXL39.1/FC-13	N3876
Synco RDF/RDD/RDU/RDG	Room thermostat for fan coils	RDF301	N3171
	Room thermostat for fan coils and lighting	RDF301.50	N3171
	Room thermostat for fan coils	RDF600KN	N3171
	Touchscreen thermostat for fan coil	RDF800KN	N3174
	Touchscreen Thermostat for Fan-coil	RDD810KN/NF	N3175
	Room thermostat for VAV	RDU341	N3172
	Room thermostat for fan coils	RDG100KN, RDG160KN, RDG165KN	N3191
	Room thermostat for VAV	RDG400KN, RDG405KN	N3192
Synco living	Central apartment unit	QAX903	N2741
	Central apartment unit	QAX910	N2707
	Central apartment unit	QAX913	N2740
OZW as a gateway	M-bus web server	WTV676-HB6035	A6V11157961

Product documentation

	Document type	Document no.
Web server OZW772..	Data sheet (this document))	N5701
	Mounting instructions (package insert)	M5701
	Installation instructions	G5701
	Commissioning instructions	C5701
	CE declaration of conformity	T5701
	Environmental product declaration	E5701
KNX bus	Data sheet	N3127
	Basic documentation	P3127
ACS790 software	Data sheet	N5649

Web browser

Devices	Requirements
PC/Laptop (1024 x 786)	html5 compatible web browser.
Smartphone	Specific for device

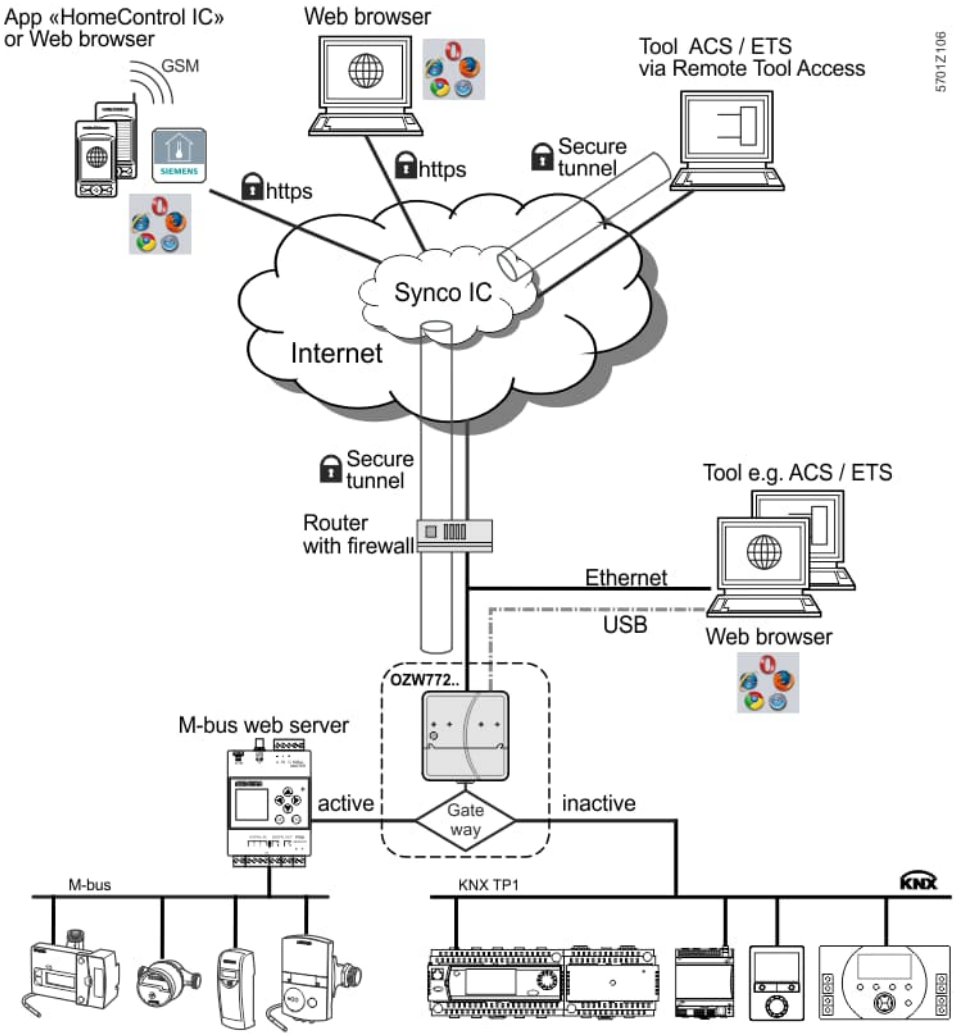
Number of browsers

Any number of browsers can be used simultaneously. The maximum data throughput rate is distributed among the browsers. Operation slows down as the number of users increases accordingly.

Operation, monitoring, alarming

Communication connections for local commissioning (USB) and remote operation, remote monitoring and alarming via Ethernet.

The web server is not suited for direct connection to the Internet, but rather must be connected via a firewall. A router typically includes a firewall.



Web server OZW772.. can also be used as a gateway for remote operation of the M-bus web server WTV676-HB6035.
Once the gateway is active, you can access the web page of the M-bus web server via Synco IC. You can no longer access the OZW web server once the gateway is activated.
The web page of the OZW web server displays if the gateway is inactive.

Interfaces

USB	The USB interface directly connects the PC/laptop on site. The required USB cable type A – type Mini-B is delivered with the device.
Ethernet	The router/network is connected to the Ethernet RJ45 plug. The Ethernet interface features Auto-MDI(X) for crossed and non-crossed Ethernet cables. An Ethernet category 5 cable is supplied.
KNX	The KNX bus is connected to the CE+ and CE– connection terminals labeled "KNX". See data sheet N3127 for more information on the KNX bus.

Logs

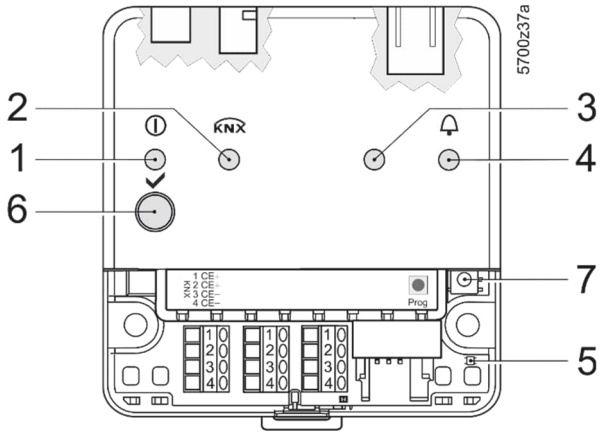
Web operation	Web operation **via Synco IC** takes place through an HTTPS encrypted connection (Port 443) via TCP/IP. The required certificate is accredited. Web operation **without Synco IC** takes place through an HTTPS encrypted connection (Port 443) via TCP/IP. The required certificate is not accredited. The self signed certificate by Siemens is saved on the web server for a period of 20 years and cannot be changed. In addition, an HTTP (Port 80) connection is supported. Port 80 is disabled as delivered. The access via http is not secured. The user is responsible for enabling Port 80. A RNDIS driver on the PC/laptop is required for USB communication. The RNDIS driver is already included in the Windows operating systems for web server as of version 7.0.
Send e-mail	Fault messages, consumption data, energy indicator reports, and trend files are sent in an e-mail via SMTP. The e-mail is encrypted using TLS V1.3 if supported by the mail server.
DHCP Client	The web server can take its network configuration as client from a DHCP server or be manually configured.

Execution

Basic design

The web server consists of a housing lower section containing printed circuit boards with interfaces. The upper housing section covers the printed circuit boards. The upper housing section contains the LED displays and one operating button. The connection terminals and additional display and operating elements are located under the removable cover for the upper housing section. All display and operating elements are labeled.

Display and operating elements



Pos	Designation
1	LED ⏻ Mode, Synco IC portal connection display and "Energy indicator"
2	LED KNX
3	LED No function
4	LED fault 🔔
5	LED addressing mode
6	Remote button ✓
7	Addressing mode button Prog

LED indication

1 ⏻ (red/green/orange)	• Off	No power
	• Steady red	Web server starts operating system.
	• Flashing red	Web server starts application.
	• Steady green	Web server operational, "Energy indicator" = "Green leaf"
	• Orange on	Web server operational, "Energy indicator" = "Orange leaf"
	• Flashing green green / orange	Web server operational, connected to Synco IC (LED 0.8 s on, 0.2 s off)
2 KNX (green)	• Off	No bus power.
	• On	KNX operational.
	• Flashing	Communication on KNX.
3 (LED)		No function.
4 Fault 🔔 (red)	• Off	No fault (normal operating state).
	• On	Acknowledged fault.
	• Flashing	Unacknowledged fault.
5 Addressing mode (red)	• Off	KNX addressing mode off.
	• On	KNX addressing mode on.

Operating buttons

6 Remote button ✓	• Short (< 2 s)	Acknowledges fault message.	
	• Long (> 6 s)	Send the system report to the fault e-mail recipient (not to consumption data, and "Energy indicator" and trend data recipient).	
7 Addressing mode Prog	• Short (< 2 s)	Press once:	KNX addressing mode on
		Press again:	KNX addressing mode off.
Button combinations ✓ and Prog	• Long (> 6 s)	Simultaneously press ✓ and Prog restores default factory settings.	
		ℹ All configuration data and settings are reset. The device list, plant diagrams, and unsent messages are deleted. History data is not deleted.	

Notes

Mounting

The Web server can be mounted in a panel, distribution box, or on a wall. Include space for wiring when planning. Make sure service can easily access the unit and the unit is ventilated properly.

• Standard mounting	On standard rail TH 35-7.5.
• Wall mounting	Attached with 2 screws.
• Mounting position	Horizontal or vertical.
• Mounting and dimensions	See "Dimensions".

Install

Important notes

Observe the following when installing:

- Run fuses, switches and wiring as per local regulations for electrical installations.
- We do not recommend plant monitoring via USB interface in environments with strong electromagnetic interference (e.g. in industrial environments with electrical welding equipment).
- See "Technical data" for electromagnetic compatibility.

Operating voltage

The supplied AC 230 V power supply provides the DC 24 V operating voltage for the web server.

Wiring

The operating voltage, USB and Ethernet plugs are located on the upper part of the housing.

The terminals on the device for the KNX bus are located under the removable cover.

Connection terminals

The connection terminals are designed for wire diameters of min. 0.5 mm or cross-sections of 0.25...1.5 mm^2 or stranded wire cross-sections of 0.25...1.0 mm^2.

Commissioning

Connections

The web server is commissioned using a web browser and, as an option, with ACS790.

Web server connects to the PC/Laptop via USB with the supplied USB cable or over Ethernet.

You can connect via Synco IC as an alternative.

Additional information is included in the Mounting Instructions M5701 or the Installation guide G5701 and the Commissioning instructions C5701 in the download center at http://www.siemens.com/ozw772-manual.

ETS configures and commissions KNX S-mode devices and is described in the commissioning instructions C5701.

Router

A connection (e.g. DSL router) is required to connect directly via the Internet. The web server is not suitable for connecting directly to the Internet since it does not have a firewall. A firewall is normally a component of the DSL router.

IP address

- The IP address via USB is set: **192.168.250.1**.
- Default setting for IP address via Ethernet: **192.168.251.1**.
- The network administrator must provide an IP address for the web server before you can connect the web server via Ethernet to a managed network.

User groups

User accounts are created and assigned to specific user groups for customized user operation.

End user

- Access to end-user data and fault overview.
- Operate and monitor via menu tree and plant diagrams.
- Administer own user accounts.

Service

Same as end user. In addition:

- Access service data.
- Create, download, and manage trend data
- Download consumption data and message history.
- Upload customized logos and documents.
- System definitions update.
- Firmware update
- Update device web pages.

Administrator

Same as service. In addition:

- Edit device list.
- Create device web pages.
- Create, copy, change, and delete plant diagrams.
- Select "Energy indicator" data points, as needed, edit default values for the data points and/or "Green limits".
- Administer all user accounts.

Maintenance

The OZW772.. web server is maintenance free (no battery changes, no fuses). Use only a dry towel to clean the housing.

Repair

The OZW772.. web server cannot be repaired on site. If faulty, return to the Repair Center at the relevant Regional Company.

Disposal

The device is considered electrical and electronic equipment for disposal in terms of the applicable European Directive and may not be disposed of as domestic garbage.

- Use only proper channels to dispose the device.
- Comply with all local, applicable laws and regulations.

Technical data

Power cable for web server OZW772..

Operating voltage Rated voltage "Euro plug"	AC 230 V ±15 % AC 230 V EN 50075 and VDE 0620-1
Frequency	50/60 Hz
Power consumption (including web server OZW772...)	3 VA typical
Protection class	II
Output voltage	SELV DC 24 V
Fusing of supply lines	Max. 16 A
Cable length (distance from AC 230 V plug to web server)	Max. 1.6 m

Web server OZW772..

Operating voltage	SELV DC 24 V ±5%, 625 mA max.
Power consumption	2 W typical

Function data

Clock reserve	Min. 72 hours
Device list OZW772.01 OZW772.04 OZW772.16 OZW772.250	 1 Synco device Up to 4 Synco devices Up to 16 Synco devices Up to 250 Synco devices

KNX bus

Interface type 2-wire bus Bus load number KNX bus power consumption	TP1 (twisted pair, 1 cable pair) CE+, CE- (non exchangeable) E 15 6 mA.
Permissible line length and cable types	See data sheet N3127.
Connection, screw terminals for Solid/stranded wire (twisted or with ferrule) 1 solid wire per terminal 1 stranded wire per terminal.	 min. Ø 0.5 mm 0.25...1.5 mm^2 0.25...1.0 mm^2

USB

Interface type Device class Baud rate	USB V2.0 RNDIS Max. 12 Mbps (full speed)
Connecting cable Cable length Cable type for connection to PC/laptop Cable type for connection to OZW772..	 Max. 3 m USB type A USB type Mini-B

Ethernet

Interface type Bitrate Protocol Recognition	100BaseTX, IEEE 802.3 compatible Max. 100 Mbps TCP/IP Auto MDI-X.
Connection, plug Cable type Cable length	RJ45 plug (screened) Standard Cat-5, UTP or STP Max. 100 m.

Directives and standards

Product standard	EN 60950-1 Information technology equipment – Safety
EU conformity (CE)	CE1T5701xx *)
RCM conformity	CE1T5701en_C1 *)
EAC conformity	Eurasia conformity

Environmental compatibility

The product environmental declaration CE1E5701en*) contains data on environmentally compatible product design and assessments (RoHS compliance, materials composition, packaging, environmental benefit, disposal).

Degree of protection

Degree of protection	IP30 to EN 60529
Protection class	III as per EN 60950-1

*) The documents can be ordered at http://siemens.com/bt/download.

Ambient conditions

Operation	IEC/EN 60721-3-3
Climatic conditions	Class 3K23
Temperature (housing with electronics)	-5…+50 °C
Humidity	5…95% r. h. (non-condensing)
Mechanical conditions	Class 3M11
Transport	IEC/EN 60721-3-2
Climatic conditions	Class 2K12
Temperature	-40...+70 °C
Humidity	<95% r.h.
Mechanical conditions	Class 2M4

Materials and colors

Upper housing section	PC + ASA, RAL 7035 (light-gray)
Lower housing section	PC + ASA, RAL 5014 (dove blue).

Dimensions

Length x width x height (max. dimensions)	87.5 mm x 90 mm x 40 mm

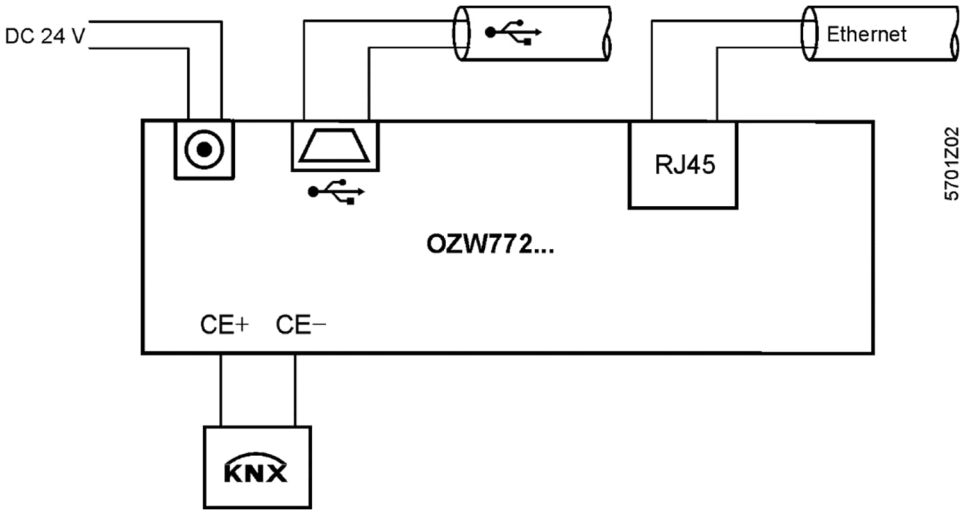
Weight

Web server OZW772..	0.136 kg
Web server with packaging, installation instructions, power unit, USB and Ethernet cable, cable straps.	0.589 kg.
Packaging	Cardboard box

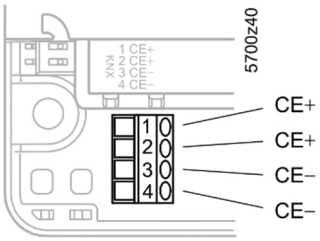
Terms, abbreviations

Auto Medium Dependent Interface - Crossed	Auto-MDI(X)
Dynamic Domain Name System	Dynamic DNS
Dynamic Host Configuration Protocol	DHCP
Energy Cost Allocation	ECA
Engineering Tool Software	ETS
HVAC Integrated Tool von Siemens	HIT
Hyper Text Transfer Protocol	HTTP
Hyper Text Transfer Protocol Secure	HTTPS
Internet Protocol	IP
KNX System installation methods	KNX S-Mode
Worldwide building automation and control standard	KNX
Network Address Translation	NAT
Network Time Protocol	NTP
Port and Address Translation	PAT
Remote Network Driver Interface Specification	RNDIS
Simple Mail Transfer Protocol	SMTP
Shielded Twisted Pair	STP
Synco IC Internet portal	Synco IC
Transport Layer Security	TLS
Transmission Control Protocol	TCP
Universal Serial Bus	USB
Unshielded Twisted Pair	UTP
Virtual Private Network	VPN
Web Application Programming Interface	Web API

Connection diagram

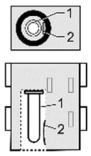


KNX connection terminals



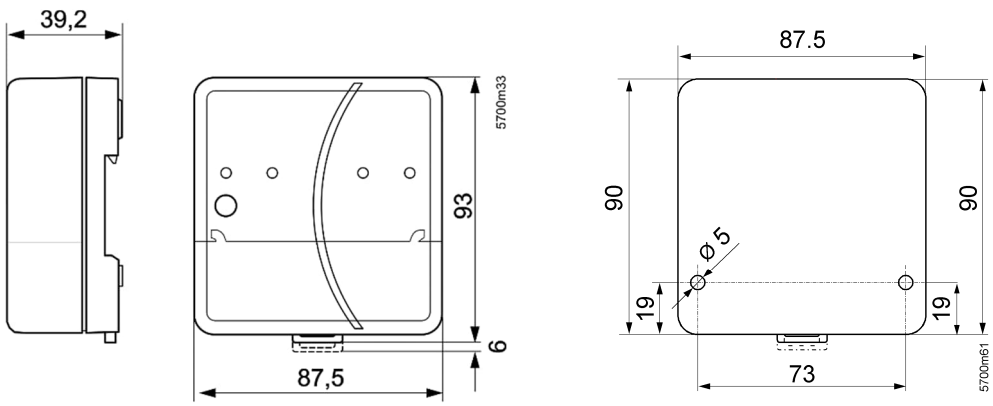
Pin assignment

DC 24 V plug



1 DC 24 V (+)
2 GND (–)

Dimensions



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