SIEMENS

5⁶⁶³



Avda. San Ignacio de Loyola,185 24191 - San Andrés del Rabanedo León - España Tel.: +34 987 248 305 Email: simelec@simelec.es www.simelec.es



OZZ7CF

KNX

Central communication unit

OZW775 V2.0

with integrated web server function

The central communication unit OZW775 in plants is used together with Synco[™] 700 devices, RXB/RXL room controllers and the Synco[™] living central apartment unit. Key features:

- Remotely operate and monitor up to 250 Synco devices in a KNX network via ACS software and/or via web browser.
- Link to an operator station (PC/laptop with ACS) via direct connection (USB) or telephony (RS-232 modem).
- Link to a web browser via Ethernet (Ethernet card OZZ7E5 required) and/or via direct connection or telephony.
- Customizable user profiles for web operation.
- Customizable user texts for inputs, outputs, function blocks.
- Send fault status messages to operator stations, SMS recipients, pagers, fax machines, e-mail recipients (message receivers).
- Periodically send system reports to message receivers.
- Storage of the last 500 faults and messages (history).
- 4 message receivers with configurable receiver types and transmission times.
- 8 digital inputs for fault and operational status contacts.
- 8 universal inputs, configurable for analog, digital and pulse signals.
- 5 runtime totalizer meters, automatically send service alarms.
- 8 meters for pulse signals from heat, water, gas or electricity meters.
- 4 seven-day time switches to switch consumers via relays.
- 6 relays for use with 7-day time switches or as fault relays.
- 5 offline trends with 50,000 recorded values.

Buildings Office and administrative buildings, residential housing. Schools, gymnasiums, leisure facilities, hotels. Municipal buildings, industrial buildings. **Building operators** • Building maintenance companies, facility management. Real estate agencies. • District heating companies, installers, end customers. **Functions Basic functions** Basic functions of the central communication unit OZW775: Monitor KNX network member devices and acquire fault statuses in HVAC plants via digital and universal inputs. Signal faults via direct connection to local operator station and/or via modem to operator stations, SMS recipients, pagers, fax machines, email recipients. · Central communication unit V2.0 with web server: Send faults to web browser via Ethernet and/or direct connection or modem. Operate HVAC plants and equipment with operator stations and/or web browser, and display process values on operator stations and/or web browser. Function "Clock time master" for default system time (date and time) to KNX network member devices. • Function "System clock" with adjustable time zone and daylight saving/standard time changeover. Faults Fault sources "System" fault source The central communication unit detects device failures and faults on the KNX network listed in the unit's device list. "Local" fault source The central communication unit identifies internal faults and fault states at the digital and universal inputs configured as fault inputs (fault source "Local"). Typical faults at digital and universal inputs: - Overload signals from thermal cutouts. - Error states signaled by switches or monitors. - Limit value violations. - Fault states of aggregates and plants. - Common messages from external plants. Fault indication Depending on the fault's source, the central communication unit indicates faults either via "Local" or "System" LED. The "Local" LED also indicates state "Hours run for service reached". Fault relays You can configure two relay outputs as fault relays. As a result, faults can be indicated by optical or acoustic alarm equipment in addition to LEDs. Fault status message Faults can also be sent as text messages via PC or modem interface. For messages

Fault status message Faults can also be sent as text messages via PC or modem interface. For messages via modem, both the number of repetitions and the modem message interval can be parameterized.

Use

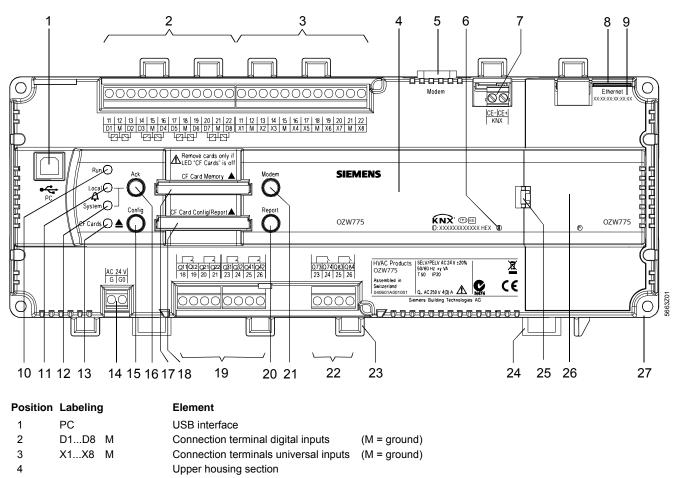
Fault acknowledgement	The "Local" LED blinks to indicate that a fault is unacknowledged. The to be lit until the fault is no longer pending even after the fault is acknow "Ack" button. "Ack" resets the fault relay if a fault relay is configured. The same applies to unacknowledged "System" faults in the event of a relay. Without fault relay, a "System" fault is acknowledged automatica "System" LED is lit immediately (no blinking until acknowledged). External fault acknowledgement is possible via digital input, provided to connected to input "Ack" on function block "Faults".	wledged with the a configured fault ally, i.e. the
System report	The central communication unit can generate system reports and period system operating state to different types of message receivers.	odically send the
History	The history includes the last 500 events on faults, fault messages, and The events are entered in the circular message buffer of the central co unit. The history data can be read via web browser and the ACS softw	ommunication
Offline trend	"Offline trend" allows logging values for selected data points of the cer communication unit and for Synco devices listed in the device list. The is necessary to define trends and trend displays on an operator station specify data exports (e.g. to Excel). 5 offline trends can be defined and run at the same time. One trend may values (number of data points x number of samplings).	ACS7 software as well as to
Examples	 Central communication unit memory to log for each trend: 1 data point at 30 second intervals for 83 hours. 6 data points at 30 second intervals for 27 hours. 10 data points at 5 minute intervals for 7 days. The number of values that can be logged is reduced if text information names, aggregate names for runtime totalization) is also recorded. 	(e.g. input
Ordering and delivery		
	 When ordering, provide both name and product number (ASN): Central communication unit OZW775 The central communication unit is delivered in a box. The following are package: Installation instructions G5663 (multilingual). CD with ACS700 software. Commissioning instructions C5663 saved as a PDF file on the CD. 	e inserted in the
Accessories	Order the following accessories separately:• Ethernet card• CF card (Compact flash card)• OZZ7CF	
Note	The CF card contains the latest firmware version and web server data. G5663 on firmware updates and preparing web server data.	. See document

Product documentation

Central communication	Document type	Document no.	
unit OZW775	Data sheet	N5663	
	Installation instructions (package ir	nsert)	G5663
	Commissioning instructions		C5663
Ethernet card OZZ7E5	Mounting instructions (package ins	M5673	
	Information on OZZ7E5: See this of	locument and \rightarrow	G5663
CF card OZZ7CF	Operating instructions (package in	sert)	B5674
	Information on OZZ7CF: See this of		G5663
KNX bus	Data sheet		N3127
	Basic documentation		P3127
ACS7 software	Data sheet		N5640
	OCIZ00 1 Data sheet		
Service tool OCI700.1 Synco products	Data sheet The following Synco products can b	be integrated in a KNX network	N5655
Synco products	The following Synco products can b	e integrated in a KNX network	:
	The following Synco products can b	-	Data sheet no.
Synco products	The following Synco products can b Product Universal controller	RMU7x0, RMU7x0B	Data sheet no. N3144, N3150
Synco products	The following Synco products can b Product Universal controller Heating controller	-	Data sheet no.
Synco products	The following Synco products can b Product Universal controller	RMU7x0, RMU7x0B RMH760, RMH760B	Data sheet no. N3144, N3150 N3131, N3133
Synco products	The following Synco products can be Product Universal controller Heating controller Boiler sequence controller	RMU7x0, RMU7x0B RMH760, RMH760B RMK770	Data sheet no. N3144, N3150 N3131, N3133 N3132
Synco products	The following Synco products can be Product Universal controller Heating controller Boiler sequence controller Central control unit	RMU7x0, RMU7x0B RMH760, RMH760B RMK770 RMB795	Data sheet no. N3144, N3150 N3131, N3133 N3132 N3121
Synco products	The following Synco products can be Product Universal controller Heating controller Boiler sequence controller Central control unit Switching & monitoring device	RMU7x0, RMU7x0B RMH760, RMH760B RMK770 RMB795 RMS705	Data sheet no. N3144, N3150 N3131, N3133 N3132 N3121 N3123
Synco products	The following Synco products can be Product Universal controller Heating controller Boiler sequence controller Central control unit Switching & monitoring device Bus operator unit	RMU7x0, RMU7x0B RMH760, RMH760B RMK770 RMB795 RMS705 RMZ792	Data sheet no. N3144, N3150 N3131, N3133 N3132 N3121 N3123 N3113
Synco products Synco 700 devices	The following Synco products can be Product Universal controller Heating controller Boiler sequence controller Central control unit Switching & monitoring device Bus operator unit Room unit	RMU7x0, RMU7x0B RMH760, RMH760B RMK770 RMB795 RMS705 RMZ792 QAW740 OZW771	Data sheet no. N3144, N3150 N3131, N3133 N3132 N3121 N3123 N3113 N1633
Synco products Synco 700 devices	The following Synco products can be Product Universal controller Heating controller Boiler sequence controller Central control unit Switching & monitoring device Bus operator unit Room unit Central communication unit	RMU7x0, RMU7x0B RMH760, RMH760B RMK770 RMB795 RMS705 RMZ792 QAW740	Data sheet no. N3144, N3150 N3131, N3133 N3132 N3121 N3123 N3113 N1633 N3117
Synco products	The following Synco products can be Product Universal controller Heating controller Boiler sequence controller Central control unit Switching & monitoring device Bus operator unit Room unit Central communication unit Room controller	RMU7x0, RMU7x0B RMH760, RMH760B RMK770 RMB795 RMS705 RMZ792 QAW740 OZW771 RXB21.1, RXB22.1	Data sheet no. N3144, N3150 N3131, N3133 N3132 N3121 N3123 N3113 N1633 N3117 N3873
Synco products Synco 700 devices	The following Synco products can be Product Universal controller Heating controller Boiler sequence controller Central control unit Switching & monitoring device Bus operator unit Room unit Central communication unit Room controller Room controller	RMU7x0, RMU7x0B RMH760, RMH760B RMK770 RMB795 RMS705 RMZ792 QAW740 OZW771 RXB21.1, RXB22.1 RXL21.1, RXL22.1	Data sheet no. N3144, N3150 N3131, N3133 N3132 N3121 N3123 N3113 N1633 N3117 N3873 N3873 N3877

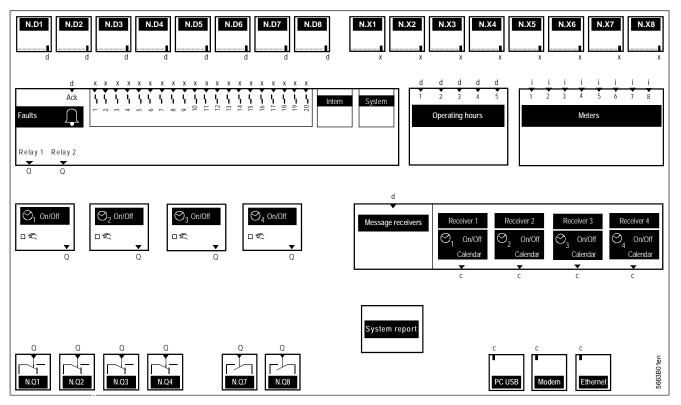
Basic design

The central communication unit consists of the housing lower section with printed circuit boards and connection terminals. The upper housing section contains the printed circuit boards. The LEDs, operating buttons, interfaces, and slots for the CF cards (compact flash memory cards) are integrated in the upper housing section. These elements and the connection terminals are labeled on the front of the housing. The shape and dimensions of the housing sections conform to DIN 43880 (size 2).



5	Modem	RS-232 interf	face
6	KNX	LED (green/red) Bus voltage, data exchange via KNX (green) / unit in addressing mode (red	
7	CE- CE+	KNX (Konnex) connection terminals	
8	Ethernet	Ethernet plug	RJ45 on Ethernet card OZZ7E5 (order card separately)
9	XX:XX:XX:XX:XX:XX	MAC address	(Media Access Control address, 48 bits)
10	Run	LED (green)	Operating voltage applied (lit), communicating with ACS (flashing)
11	Local	LED (red)	Central unit faults or faults at fault inputs, or "Hours run for service reached"
12	System	LED (red)	Device faults in the KNX network
13	CF cards	LED (green)	CF card integrated (lit), CF card being integrated or removed (flashing)
14	G G0	Connection te	erminals for AC 24 V operating voltage
15	Config	Button	Integrate or remove CF card
16	Ack	Button	Acknowledgement of "Local" fault, fault relay "System"
17	CF card memory	Slot for CF ca	rd (web server data)
18	CF Card Config/Report	t Slot for CF card (firmware update)	
19	Q11,Q12 Q21,Q22 Q31,Q32 Q41,Q42	Connection te	erminals for 4 relays with NC contacts
20	Report	Button	For function, see "Button combinations"
21	Modem	Button	initializes modem, checks connection to the modem (short) / sends system report (long)
22	Q73,Q74 Q83,Q84	Connection te	erminals for 2 relays with NO contact
23		Lug for cable	tie (cable strain relief)
24		Fastening spr	ing to mount the central communication unit to a standard rail TH 35-7.5
25		Snap cover	
26		Cover (can be	e opened without tools if Ethernet card OZZ7E5 needs to be inserted)
27		Lower housin	g section

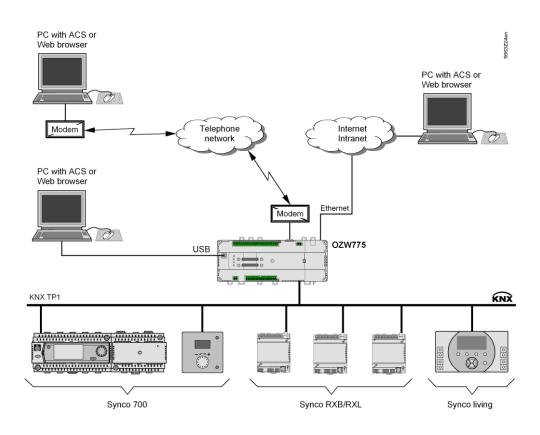
	The central communication unit contains various function blocks (FB). The functionality of the unit can be extended by connecting (binding) the digital inputs N.D1N.D8 and the universal inputs N.X1N.X8 to the FB inputs "d", "x", and "i" (see figure and function block description).
Inputs and outputs	
Digital inputs	The digital inputs N.D1N.D8 help connect potential-free status contacts. They act as fault inputs when connecting digital inputs to FB "Faults". When connected to FB "Operating hours", the number of operating hours of aggregates (burners, pumps, fans, etc.), can be counted.
Universal inputs	The universal inputs N.X1N.X8 can be configured for potential-free status and counting impulse contacts and analog signals from sensors and transmitters.
	Universal inputs configured for status contacts (digital) or limit values (analog) and connected to FB "Faults" act as fault inputs.
	When universal inputs are configured for operating status contacts of aggregates and connected to FB "Operating hours", the operating hours can be acquired.
	When universal inputs are configured for counting pulses and connected to FB "Meters", consumption values (heat, gas, electricity, etc.) can be acquired.
Relay outputs	The outputs of relays N.Q1N.Q4 have NC contacts, those of relays N.Q7, N.Q8 have NO contacts. To signal faults (e.g. with signal lamps, horns), relay 1 and/or relay 2 of FB "Faults" are connected to one of the relays N.Q
	If one of the relays N.Q_ is connected to an FB "7-day time switch with control switch", relay N.Q_ in "Auto" position operates as per the time switch program, else per the control switch position "Off" or "On".



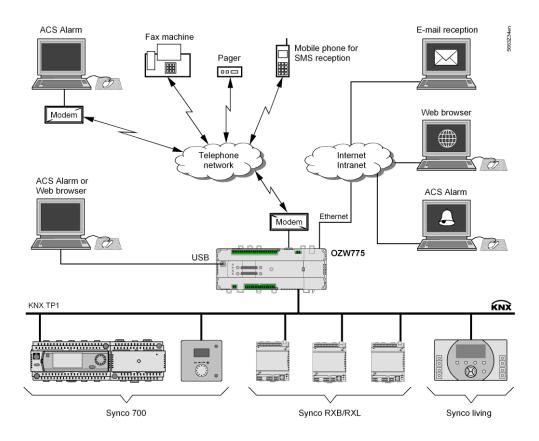
Inputs, outputs and function blocks of the OZW775 central communication unit.

Function blocks	
FB "Faults"	FB "Faults" is designed for 20 fault inputs. Inputs N.D1N.D8 (digital) and N.X1N.X8 (digital/analog) are connected to FB inputs "x". "Relay 1" and/or "Relay 2" is activated depending on fault priority and source.
	FB "Faults" handles faults and failures of the Synco devices ("System" faults) listed in the device list as well as faults at the fault inputs and faults of the central communication unit ("Local" faults)
	To facilitate external fault acknowledgement, a digital input must be connected to input "Ack". External fault acknowledgement acts like pressing the "Ack" button.
FB "Operating hours"	FB "Operating hours" can handle up to 5 runtime totalizers. The operational status contacts of the aggregates are connected to FB inputs "d" via the digital inputs N.D1N.D8 or N.X1N.X8 (configured as digital inputs).
	If a service interval is defined, the "Local" LED indicates when the number of operating hours is reached and, if configured, a service alarm is issued.
FB "Meters"	FB "Meters" can handle up to 8 counting values. The universal inputs N.X1N.X8 (configured as counting pulses) are connected to the FB inputs "i". The acquired counting pulses from heat, water, gas, electricity meters are converted to consumption values, e.g. energy in Wh, kWh or volume in m ³ . The 15 monthly values along with readout dates are stored.
FB "7-day time switch with operation selector"	The 4 FB "7-day time switch with control switch" allow for switching various consumers in dependence of time via the relays N.Q Each 7-day time switch allows for programming up to 6 switching points (3 "On", 3 "Off". Additionally, a configurable operation selector with positions "Auto" / "Off" / "On" is integrated.
	If a time switch output "Q" is connected to a relay input, position "Auto" ensures that the relay is energized and deenergized as per the time program, or the relay is constantly deenergized or energized.
FB "System report"	In FB "System report", the time the message is sent (hh:mm) and the message cycle interval (1255 days) for sending system reports can be programmed. A system report is sent to one or several message receivers depending on fault priority (urgent/not urgent).
FB "Message receivers"	FB "Message receivers" is subdivided into 4 receivers. Message suppression via input "d" acts on all receivers. You can set both receiver type and fault priority individually for each receiver. Each receiver has a "Time switch with calendar" to program three sending times per day and holidays/special days.
	Example: All fault messages from Monday through Friday 08:00 - 18:00 are sent to receiver "Service business receiver", e.g. to a fax machine. Outside these hours, the fault status messages are sent to receiver "24-hour service", e.g. SMS to mobile phone.
	The outputs "c" of FB "Message receivers" are connected to inputs "c" of the PC USB, modem, or Ethernet interfaces. The PC USB interface is designed for local commissioning, operation and monitoring (alarming).
	Remote operation and monitoring are possible via modem (dial-up) and, at the same time, via Ethernet (Internet/intranet) to one (or several) web browsers.

Interfaces	The central communication unit has three interfaces to communicate between unit and user, and the interface or connection for the KNX bus.
PC	The "PC" interface is intended to directly connect a central communication unit to a local operator station. A USB cable, type A-B, is required to this end.
Modem	The "Modem" interface is intended to connect a modem via RS-232. When communi- cating via modem, the following message recipients are supported: Operator stations (PC/laptop with ACS software), SMS recipients, pagers, fax machines.
Ethernet	The interface labeled "Ethernet" corresponds to a RJ45 plug on the Ethernet card OZZ7E5. Order the card separately and insert in the central communication unit. A network cable Cat-5 is required to connect to the Ethernet (Ethernet category 5 cable).
KNX	The"KNX" labeled connection terminals CE+ and CE- are intended for the KNX bus. For more information on the KNX bus, see data sheet N3127.
Parallel operation	We speak of parallel operation if one central communication unit is operated with two or multiple operator stations. Also, e.g. with one operator station via USB, and/or via modem, and/or via Ethernet.
Operation	Communication connections for local operation (USB), and for remote operation via modem and Ethernet.



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



Parameter settings for message receivers

The following table lists all parameters for the communication connections that can be set in each message receiver.

Receiver type	Interface	Modem type	Transmission protocol
(Default)	-	-	-
Email	Ethernet	XX	SMTP
ACS alarm	USB	XX	ACS protocol
	Modem	Analog/ISDN	
		GSM	
	Ethernet	XX	
Mobile phone	Modem	Analog/ISDN	ΤΑΡ
			UCP
		GSM	SMS GSM
Fax machine	Modem	Analog	Fax protocol
		GSM	Fax protocol
			SMS GSM service
Pager	Modem	Analog/ISDN	ΤΑΡ
		GSM	TAP
			SMS GSM service

	No other selection
-	Value cannot be set or not value entry required
xx	No modem required
Bold/Italics	Default value

Example:	Receiver type	= Email
•	Interface	= Ethernet
	Transmission protocol	= SMTP

ernet (Default if receiver type = Email)

(Default if receiver type = Email)

You must mount the central communication unit in a cabinet or control panel. Make sure service can easily access the unit.

- Standard mounting
- On standard rail TH 35-7.5
- Screwed-on mounting Screwed to rear wall
- Mounting position

•

Horizontal only Mounting and dimensions See "Dimensions"

Installation notes

Important notes

Observe the following important notes for mounting and installation:

- The central communication unit must be mounted in a cabinet or control panel, as when mounted on a freely accessible wall, the relay output terminals carrying mains voltage (bottom of the unit, terminals not covered) are not protected against electric shock hazard.
- Run fuses, switches, wiring and earthing as per local regulations for electrical • installations.
- · The relay contacts of the central communication unit can switch either mains voltage or low-voltage. Applying both mains and low voltage is not permitted.
- You must connect circuits with relay contacts Q11, Q12 through Q41, 42 to the same mains phase.
- You must connect circuits with relay contacts Q73, Q74 and Q83, Q84 to the same mains phase.
- Connect only potential-free contacts to digital inputs D1...D8 and universal inputs X1...X8 (configured for digital inputs signals).
- · We do not recommend plant monitoring via PC interface in environments with strong electromagnetic interference (e.g. in industrial environments with electrical welding equipment).

Operating voltage	The central communication unit operates on AC 24 V and must meet requirements for SELV/PELV (safety extra low-voltage / protective extra low-voltage).		
	Use only safety isolating transformers suited for 100 % duty (as per EN 61558-2-6).		
Wiring	Plan sufficient space around the unit for easy wiring. The unit's terminals are arranged to eliminate cross-wiring of input and output lines to prevent faulty wiring to the greatest extent possible.		
	The terminals for digital inputs, universal inputs, and the KNX bus are located at the top of the unit (low-voltage side). The terminals for AC 24 V operating voltage and relay outputs carrying mains voltage are located at the bottom (mains voltage side).		
Connecting terminals	The terminals are designed for wire diameters of min. 0.8 mm or cross-sections of 0.52.5 mm ² . See "Technical data".		

Commissioning notes

Authorized staff	Only authorized staff may commission and parameterize the central communication unit as well as start the web server.
Select telephone service provider and modem	You must select the telephone service provider and modem depending on the message receiver type prior to commissioning. If you use a GSM modem, make sure that the SIM card allows for data communication and that it is not protected by a PIN code.
IP address	Before activating the web server via the web browser on Ethernet, the network system administrator must assign the IP address for the central communication unit.
Commissioning	Commission the central communication unit locally via PC interface using a PC/laptop. The service tool ACS must be installed on the PC/laptop.
	You need a USB cable, type A-B, to locally connect the PC interface of the communication unit to the PC/laptop.
	The installation instructions G5663xx (enclosed with unit), topic "Commissioning" also point out important commissioning issues.
Parameterization	Parameterize the central communication unit locally via PC interface using a PC/laptop and service tool ACS.
	Read the commissioning instructions C5663 for the associated procedure. The com- missioning instructions PDF file is saved to the CD supplied with the unit. You can also download the PDF file from <u>www.siemens.com/synco</u>
Web server	
Local activation	Locally activate the web server <u>following</u> commissioning and parameterization of the central communication unit.
	You need a USB cable, type A-B, to locally connect the PC interface of the communi- cation unit to the PC/laptop.
	The installation instructions G5663xx (enclosed with unit) stress the following issues:
	Insert Ethernet card.
	Update firmware.Prepare web server data.
	 Start web browser with IP address 192.168.250.1 and login.
Activate via Ethernet connection	See the commissioning instructions C5663 for information on how to activate the web server via Ethernet connection (Ethernet card OZZ7E5). The PDF file of the commissioning instructions are saved on the CD supplied with the unit. You can also download the PDF file from <u>www.siemens.com/synco</u>

LED displays			
Run (green)	Dark Lit Flashing	No operating voltage AC 24 V or unit is starting. Unit ready to operate. Communicating with ACS.	
Local (red)	Dark Lit	No fault (normal operating state). Central communication unit faults and/or signal at fault inputs "Hours run for service reached".	
	Flashing	Fault unacknowledged.	
System (red)	Dark Lit	Without configured fault relay "System" in the OZW775: No fault (normal operating state). Device fault in KNX network.	
	Dark Lit Flashing	With configured fault relay "System" in the OZW775: No fault (normal operating state). Device fault in KNX network, fault relay acknowledged. Device fault in KNX network, fault relay unacknowledged.	
CF cards (green)	Dark Lit Flashing	No CF card integrated. CF card integrated. CF card is being integrated or removed (after pressing button "long" on "Config").	
KNX (green/red)	Dark Steady gr Flashing Steady re	green Data exchange via KNX.	
Operating buttons	Pressing	the button briefly ("short") means <2 seconds, "long" >4 seconds.	
Config		No function. ntegrate or remove CF card (or both CF cards).	
Ack		Acknowledge "Local" fault, fault relay "System". See "Button combinations".	
Report		lo function. See "Button combinations".	
Modem		nitializes modem, checks modem connection. nitializes modem, sends system report to configured receivers.	
Button combinations	For butto	n combinations, always press "long" (>4 seconds).	
Addressing mode	Simultaneously press "Modem" and "Report" (programming mode).		
Restart central unit	Simultaneously press "Modem" and "Ack".		
Default state	Note: All	eously press "Modem", "Ack", and "Config". configuration data and settings are reset. The device list and all unsent s are deleted. History data is not deleted.	

General notes

Maintenance	The OZW775 central communication unit requires no maintenance (no battery changes, no fuses). Clean the housing only with a dry cloth.
Repair	The central communication unit OZW775 cannot be repaired in the field. If faulty, return to the Repair Center of the relevant Siemens Regional Company.
Disposal	The central communication unit is subject to directive 2002/96/EEC (WEEE, Waste of Electrical and Electronic Equipment).
X	"Dispose of the device as electronic waste in compliance with European directive 2002/96/EEC (WEEE) and not as municipal waste. Observe all relevant national regulations and dispose of the unit correctly. Comply with all local and currently valid legislation".

Technical data

Power supply G, G0	Operating voltage Rated voltage as per EN 60950-1 Safety extra low-voltage (SELV) / protective extra low-voltage (PELV) as per Requirements for external safety isolating transformer (100 % duty, max. 320 VA)	AC 24 V ±20 % AC 24 V HD 384 EN 61558-2-6
	Frequency	50/60 Hz
	Power consumption OZW775	20 VA
	Supply line fusing	Max. 10 A, transformer on primary side
Functional data	Clock reserve	46 h typical, min. 12 h
Functional data	OZW775 device list	Up to 250 Synco devices
Digital inputs D1D8	Number	8 (terminals D1D8 and 1 ground connection for 2 terminals each)
	Contact sensing Voltage Current	DC 16.5 V Typically 8 mA
	Requirements for status / fault contacts Signal coupling Type of contact Insulating strength against mains potential	Potential-free Maintained contact AC 3750 V as per EN 60950-1
	Permissible resistance Contact closed Contact open	Max. 200 Ω Min. 50 kΩ
Universal inputs X1X8	Number	8 (terminals X1X8 and 1 ground connection for 2 terminals each)
	Sensors Passive Active	LG-Ni1000, T1, Pt1000 DC 010 V
	Transmitter Active	DC 010 V
	Contact sensing status / impulse contacts Voltage Current	DC 16.5 V Typically 1 mA, max. 6 mA
	Requirements for status contacts Signal coupling Type of contact Insulating strength against mains potential	Potential-free Maintained contact AC 3750 V as per EN 60950-1

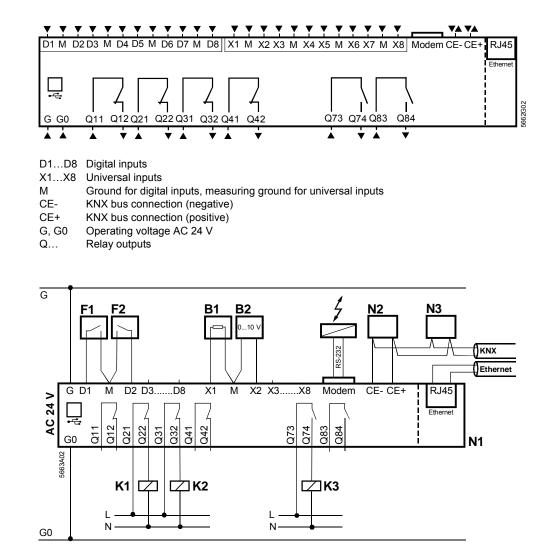
Universal inputs continued	Requirements for pulse inputs Signal cables Signal coupling Type of contact Mechanical signal source (Reed contact) Max. pulse frequency Min. pulse duration Electronic signal source Max. pulse frequency Min. pulse duration Insulating strength against mains potential Line length for: Passive sensor signals LG-Ni 1000, T1, Pt 1000 Active signals DC 010 V Status and impulse contacts	Recommendation: Shielded cables Potential-free Impulse contact 25 Hz 20 ms (incl. max. 10 ms bounce time) 100 Hz 5 ms AC 3750 V as per EN 60950-1 Max. 300 m See data for signal-sending device 300 m
Relay outputs Q1_,Q2_,Q3_,Q4_,Q7_,Q8_	Number Relay with NC contact	4 (terminals Q11,Q12 Q21,Q22, Q31,Q32 Q41,Q42)
AC 230 V	Relay with NO contactExternal supply line fusing NC contact, non-renewable fuse (slow) NO contact, non-renewable fuse (slow) Automatic line cutout Release characteristicLine lengthRelay contact data Switching voltage AC current (NC) AC current (NO) At 250 V At 19 V Switch-on currentContact life at AC 250 V At 0.1 A ohm. At 0.5 A ohm.At 2 A ohm.At 4 A ohm. Red. fact. at ind. (cos φ = 0.6)Insulating strength between: Relay contacts and system electronics (reinforced insulation) Neighboring relay contacts (operational insulation)	2 (terminals Q73,Q74 Q83,Q84) Max. 3.15 A Max. 5 A Max. 13 A B, C, D as per EN 60898 Max. 300 m Max. AC 250 V, min. AC 19 V Max. 2 A ohm., 2 A ind. ($\cos \varphi = 0.6$) Max. 4 A ohm., 3 A ind. ($\cos \varphi = 0.6$) Min. 5 mA Min. 20 mA Max. 10 A (1 s) Guide values: 2 x 10 ⁷ switchings (NC and NO) 2 x 10 ⁶ switchings (NC) 4 x 10 ⁶ switchings (NC) 3 x 10 ⁵ switchings (NO) 3 x 10 ⁵ switchings (NO) AC 3750 V, as per EN 60950-1 AC 1250 V, as per EN 60950-1
Connecting terminals Inputs and outputs	Screw terminals for: Solid / stranded wire (twisted or with ferrule) 1 solid / stranded wire per terminal 2 solid / stranded wires per terminal (max. 2)	Min. Ø 0.8 mm 0.52.5 mm ² 0.51.5 mm ²
PC interface	Interface Standard Device class Baud rate Connecting cable for operator station Cable length Cable type for connection to PC/laptop Cable type for connection to OZW775	USB V1.1 (universal serial bus) RNDIS (remote network device Interface specification) Max. 12 Mbps (full speed) Max. 5 m USB type A USB type B
Modem interface	Interface Standard Baud rate Connecting cable for modem Cable length Cable type for connection to OZW775	RS-232, V.24 / EIA 232D Max. 115 kbaud Max. 15 m D-sub 9-pin, plugs

Protocols to send messages	Protocol support for connection via Leased line telephone service provider	UCP (universal computer protocol) TAP (telocator alphanum. protocol) FAX protocol (fax class 2 or 2.0)	
	GSM telephone service provider, additional	AT+ (extended AT command set)	
KNX bus	Interface type 2-wire bus Bus load number OZW775 Decentralized bus power supply, can be switched off	TP1 (twisted pair, 1 cable pair) CE+, CE- (non exchangeable) E 0.3 DC 30 V / 25 mA	
	Permissible line length and cable types	See data sheet N3127	
Ethernet Ethernet card OZZ7E5	Interface type Bit rate Protocol	100BaseTX, IEEE 802.3 compatible 10 Mbps TCP/IP	
	Connection Cable type Cable length	RJ45 plug (screened) Standard Cat-5, UTP or STP Max. 100 m	
	Ethernet cable for: Point-to-point connection Multi-connection (e.g. to switchbox)	Crossed cable Straight cable	
Ambient conditions	Operation to Climatic conditions Temperature (housing and electronics) Humidity Mechanical conditions	IEC 60 721-3-3 Class 3K5 050 °C 595 % r. h. (non-condensing) Class 3M2	
	Transport Climatic conditions Temperature Humidity Mechanical conditions	IEC 60 721-3-2 Class 2K3 -25+70 °C <95 % r. h. Class 2M2	
Degree of protection	Degree of protection when mounting: Rear wall in cabinet or control panel Front panel cutout for display and operation	IP 20 as per EN 60529 IP 30 as per EN 60529	
	Safety class	II as per EN 60950-1	
Standards	Product safety For information technology equipment	EN 60950-1	
	Electromagnetic compatibility Immunity OZW775 Immunity PC interface Emissions Home and Building Electronic System (HBES)	EN 61000-6-2 EN 61000-6-1 EN 61000-6-3 EN 50090-2-2	
	EMC directive Low voltage directive	2004/108/EC 2006/95/EC	
	C-conformity Australian EMC Framework Radio Interference Emission Standard	Radio communication act 1992 AS/NZS 3548	
	Environmental compatibility The environmental product declaration CE1E5663en contains data on environmentally compatible product design and assessments (RoHS compliance, materials composition, packaging, environmental benefit, disposal)	ISO 14001 (Environment) ISO 9001 (Quality) SN 36350 (Environmentally compatible products) 2002/95/EC (RoHS)	
Materials and colors	Housing lower and upper section	Polycarbonate, RAL 7035 (light-gray)	
Dimensions	Length x width x height (max. dimensions)	298 mm x 128 mm x 77 mm	
	Size	2 as per DIN 43880	

Weight OZW775	Central communication unit OZW775 With packaging, installation instructions and CD	0.825 kg 1.185 kg
	Packaging	Cardboard box
Weight OZZ7E5	Ethernet card OZZ7E5 With packaging, mounting instructions	0.018 kg 0.044 Kg
	Packaging	Cardboard box
Weight OZZ7CF	CF card OZZ7CF With packaging, operating instructions	0.010 kg 0.022 Kg
	Packaging	Plastic bag
Terms and abbreviations	Extended command language for modems: Attention+	AT+
	Global system for mobile communication	GSM
	Integrated services digital networks	ISDN
	Internet protocol	IP
	Shielded twisted pair	STP
	Simple mail transfer protocol	SMTP
	Short message service	SMS
	Telocator alphanumeric protocol	ТАР
	Transmission control protocol	TCP
	Universal computer protocol	UCP
	Universal serial bus	USB
	Unshielded twisted pair	UTP

Connection diagram

Connection diagram



- N1 Central communication unit OZW775
- N2, N3 Synco device in KNX network
- F1, F2 Device with potential-free contact output
- B1 Sensor with passive signal
- B2 Transmitter with active signal
- K1, K2 Contactor (control by relay with NC contact)
- K3 Contactor (control by relay with NO contact)

Pin assignment

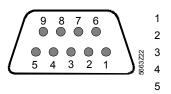
Ethernet card OZZ7E5

RJ45 plug (screened), standard assignment as per AT&T256.

12345678	
	5663Z21
	566

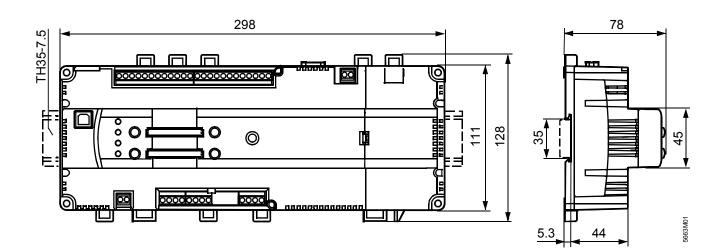
1	Tx +	5	Not used
2	Tx –	6	Rx –
3	Rx +	7	Not used
4	Not used	8	Not used

Modem connection (D-pins, 9-pin), interface definition as per RS-232.

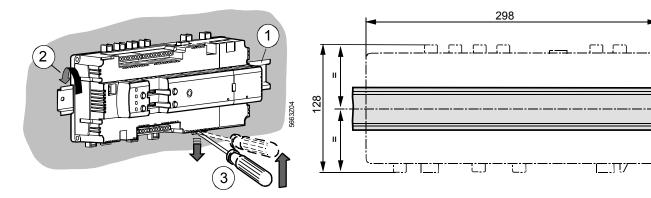


DCD	Data carrier detect	6	DSR	Data set ready
RXD	Received data	7	RTS	Request to send
TXD	Transmit data	8	CTS	Clear to send
DTR	Data terminal ready	9	NC	Not connected
GND	Signal ground			

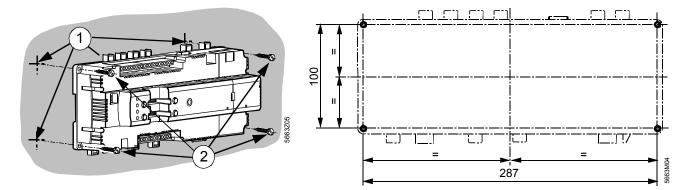
Modem connection, central communication unit



Standard mounting on standard rail TH 35-7.5



Screwed-on mounting



Dimensions in mm

©2005-2008 Siemens Switzerland Ltd www.sbt.siemens.com/

Subject to change

5663M02

Central communication unit OZW775 V2.0

CE1N5663en 29.10.2008