



Synco™

## Bus operator unit

## RMZ792

Series C

**Communicating operator unit to operate up to 150 devices in a KNX network. Freely-definable Favorites pages. Supply from KNX bus or external AC 24 V. Fixed installation (panel) or mobile use (hand-held device).**

### Use

Central operation of Synco 700 devices and central communication units as well as RX.. room controllers and RD.. room thermostats via KNX bus.

### Note

The RMZ792 does **not** allow for commissioning the devices in the KNX network. The commissioning must occur locally on the device in the KNX network using the RMZ790 or RMZ791 operator units or centrally using the OCI700.1 service tool.

### Functions

#### Device list

- Device list with max. 150 devices.
- Automatic device search.
- Automatic or manual sorting of the device list.
- Naming or renaming devices.
- Deleting individual devices or the entire device list.

- Favorites pages**
  - Up to 20 definable Favorites pages featuring key plant values.
  - Up to 10 plant values per Favorites page.
  - Naming or renaming pages and plant values.
  - Sorting Favorites pages.
  - Deleting Favorites pages.
  
- Fault handling**
  - Fault indication via red LED and symbol.
  - Fault acknowledgement and reset.
  - List to display max. 20 current faults.
  
- Operating levels**
  - 4 operating levels: Info, User, Service, Password.
  - User, Service, and Password level with individual password protection.
  
- Service functions**
  - Customized business card for Service address/phone.
  - Data backup.
  
- Bus functions**
  - Automatic device address search.
  - Indication of fault status messages from other devices on the bus.
  - Display of system time and date.
  
- Supported devices**
  - RM.. control units (Synco 700 range).
  - RXB2.. and RXL2.. room controllers.
  - RDG.., RDF.., RDU341 room thermostats.
  - QAW740 room unit.
  - OZW771, OZW775 central communication units.
  
- Languages**
  - German, English, French, Italian, Dutch, Polish, Czech, Slovakian, Hungarian, Spanish, Portuguese, Danish, Norwegian, Swedish, Finnish, Greek, Russian, Romanian, Slovenian, Serbian, Croatian, Bulgarian, Turkish.
  
- Supply**
  - From KNX bus or external AC 24 V.

### Type summary

<i>Designation</i>	<i>Type</i>	<i>Languages</i>
Bus operator unit	<b>RMZ792</b>	de, en, fr, it, nl, pl, cs, sk, hu, es, pt, da, no, sv, fi, el, ru, ro, sl, sr, hr, bg, tr

### Ordering and delivery

When ordering, specify both name and product number.

- **RMZ792** bus operator unit.

A connection cable and installation instructions are supplied with the device.

### Important note

The RMZ792 **Series C** bus operator unit does not have an exchangeable memory card. To operate future, new devices (with new device descriptions), order the **exchange device S/RMZ792**.

## Equipment combinations

The RMZ792 Series C bus operator unit allows for operating the following devices:

	<i>Devices</i>	<i>Type</i>	<i>Data sheet no.</i>
Synco 700	Universal controller	RMU7x0, RMU7x0B	<b>N3144, N3150</b>
	Heating controller	RMH760, RMH760B	<b>N3131, N3133</b>
	Boiler sequence controller	RMK770	<b>N3132</b>
	Central control unit	RMB795, RMB795B	<b>N3121, N3122</b>
	Switching and monitoring unit	RMS705, RMS705B	<b>N3123, N3124</b>
	Room unit	QAW740	<b>N1633</b>
	Central communication units	OZW771, OZW775	<b>N3117, N5663</b>
RXB, RXL	Room controller	RXB21.1, RXB22.1	<b>N3873</b>
	Room controller	RXL21.1, RXL22.1	<b>N3877</b>
	Room controller	RXB24.1	<b>N3874</b>
	Room controller	RXL24.1	<b>N3878</b>
	Room controller	RXB39.1	<b>N3875</b>
	Room controller	RXL39.1	<b>N3876</b>
RDG, RDF, RDU	Room thermostat for fan coils	RDG100KN	<b>N3191</b>
	Room thermostat for fan coils	RDG160KN	<b>N3191</b>
	Room thermostat for VAV	RDG400KN	<b>N3192</b>
	Room thermostat for fan coils	RDF301	<b>N3171</b>
	Room thermostat for fan coils	RDF301.50H	<b>N3171</b>
	Room thermostat for fan coils	RDF600KN	<b>N3171</b>
	Room thermostat for fan coils	RDF800KN, RDF800KN/NF	<b>N3174</b>
	Room thermostat for fan coils and lighting	RDF301.50	<b>N3171</b>
Room thermostat for VAV	RDU341	<b>N3172</b>	

## Product documentation

<i>Documentation type</i>	<i>Doc. no.</i>
Basic documentation RMZ792, detailed description of the functions	<b>P3113</b>
Installation instructions (mounting and commissioning)	<b>G3113</b>
Environmental declaration	<b>E3113</b>
Synco product range	<b>S3110</b>
"KNX bus" data sheet	<b>N3127</b>
Basic documentation: Communication via KNX bus	<b>P3127</b>
CE declaration of conformity	<b>T3110</b>

## Mechanical design

The RMZ792 bus operator unit comprises a base plate and housing part with electronics, display, and operating elements.

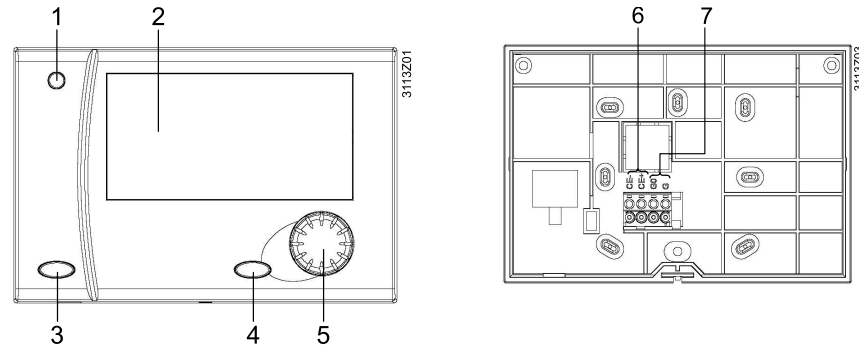
The bus operator unit is well suited for front or wall mounting as well as mobile use as a hand-held device.

Cables are introduced via an opening in the base plate or an opening on the side of the upper part of the housing.

The supplied connection cable is to connect to a control unit or to a KNX bus plug (RJ45).

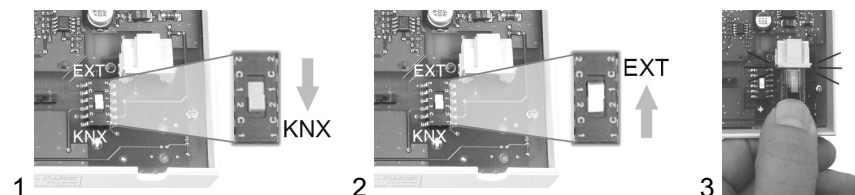
Supply occurs via KNX bus or externally with AC 24 V operating voltage at connection terminals G, G0 on the base plate.

### Operating, display and connecting elements



- 1 INFO button
- 2 LCD panel
- 3 Fault button (⚠) with integrated, red LED to display and acknowledge fault indication signals:
  - LED flashes: Fault status message, ready to acknowledge
  - LED lit: Fault status message pending, but not yet unlocked
  - LED off: No fault status message available.
  - Press button: Acknowledge or reset fault.
- 4 ESC button
- 5 Press-and-turn OK button
- 6 Connecting terminals CE+, CE- for KNX bus
- 7 Connecting terminals G, G0 for external supply AC 24 V

### Slider KNX / EXT



- 1 Slider = KNX for supply from KNX bus (power 45 mA)
- 2 Slider = EXT for external supply AC 24 V to G, G0 (power 5 mA)
- 3 RJ45 connection plug for connection cable to control unit or KNX bus plug

## Engineering notes



- Power 45 mA must be included when calculating power for the bus operator unit supplied via KNX bus.
- AC 24 V voltage is required to power the bus operator unit externally. It must meet requirements for SELV/PELV (safety extra low-voltage).
- The transformers used must be safety isolating transformers featuring double insulation as per EN 60742 or EN 61558-2-6, designed for 100% duty.
- Fuses, switches, wiring and earthing must comply with relevant national safety regulations for electrical installations.

## Mounting and installation notes

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- The RMZ792 bus operator unit is designed for:
  - Front mounting (15 mm dia. drill hole required for cable entry).
  - Wall mounting.
  - Mobile use as hand-held device.
- Mounting in wet or damp spaces not allowed. Observe all permissible environmental conditions.
- Disconnect the system from the power prior to mounting and installing the device.
- Connecting the bus operator unit to an operating plant is allowed only when the supplied cable (RJ45 plug) is used.
- Comply with all ESD safety measures, i.e. do not touch electronic components on the circuit board.

## Commissioning notes

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- Only staff trained by Siemens with associated permissions (access rights) may commission (configure) the RMZ792 operator unit. See also P3113 basic documentation.
- The RMZ792 bus operator unit does **not** allow for commissioning (configuring) the devices in the KNX network. Commissioning must occur locally on the device (bus device) in the KNX network using the RMZ790 or RMZ791 operator units or centrally using the OCI700.1 service tool.
- See the installation instructions for initially starting and commissioning the bus operator unit.
- Troublefree operation of the bus operator unit requires a correct device address for all bus devices.

## General notes

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### Maintenance

The RMZ792 does not require maintenance (no change of battery, no fuses). Clean the housing only with a dry towel.

### Repair

The RMZ792 bus operator unit cannot be repaired on site.

### Disposal



The devices are considered electronics devices for disposal in term of European Directive 2012/19/EU and may not be disposed of as domestic waste.

- Dispose of the device via the channels provided for this purpose.
- Comply with all local and currently applicable laws and regulations.

## Technical data

<b>Power supply (G, G0)</b>	Operating voltage	AC 24 V $\pm$ 20 %
	Safety extra-low voltage (SELV) / protective extra-low voltage (PELV) as per requirements for external safety isolating transformer (100% ED, max. 320 VA) as per	HD 384
	Short interruptions to power supply as per	EN 60742 / EN 61558-2-6 EN 61000-4-11, 100 ms
	Frequency	50/60 Hz
	Power consumption	Max. 2.5 VA
	Supply line fusing	Max. 10 A
<b>Connection Power supply (G, G0)</b>	Connection type	Screw terminals
	For wire	0.05...2.5 mm <sup>2</sup>
	For strand	0.05...1.5 mm <sup>2</sup>
	Power consumption for external supply (G, G0)	5 mA
<b>KNX bus connection</b>	Connection types	Screw terminals or RJ45 plug for connection cable
	Connection type	Screw terminals
	For wire	0.05...2.5 mm <sup>2</sup>
	For strand	0.05...1.5 mm <sup>2</sup>
	Cable type	2-core stranded, Without screening
	Connections CE+, CE-	Not exchangeable
<b>KNX interface</b>	Interface type	KNX TP1, 9.6 kbps
	Bus load number	0.5
	Power consumption at KNX bus supply	45 mA
<b>Connection cable</b> (supplied with RMZ792)	For connection to or to	Synco control unit KNX bus plug
	Design	8-core, RJ45 plug both sides
	Length	3 m
<b>Degrees of protection</b>	Degree of protection of housing to IEC 60529	IP 20 (when mounted)
	Safety class	III to EN 60730-1
<b>Environmental conditions</b>	Operation as per	IEC 60721-3-3
	Climatic conditions	Class 3K5
	Temperature (housing and electronics)	0...50 °C
	Humidity	5...95% r. h. (non-condensing)
	Mechanical conditions	Class 3M2
	Transport as per	IEC 60721-3-2
	Climatic conditions	Class 2K3
Temperature	-25...+70 °C	
Humidity	<95 % r.h.	
Mechanical conditions	Class 2M2	
<b>Classifications as per EN 60730</b>	Degree of contamination, control environment	2
	Software class	A
	Rated surge voltage	500 V
<b>Materials and colors</b>	Bus operator unit	Polycarbonate, RAL 7035 (light-gray)
	Packaging	Corrugated cardboard

**Standards and guidelines**

Product standard	EN 60730-1 Automatic electrical controls for household and similar use
Product family standard	EN 50491-3 General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS)
Electromagnetic compatibility	For residential, commercial and industrial environment
EU Conformity (CE)	CE1T3110xx <sup>*)</sup>
RCM Conformity	CE1T3110en_C1 <sup>*)</sup>
Environmental compatibility	The product environmental declaration CE1E3113 <sup>*)</sup> contains data on environmentally compatible product design and assessments (RoHS compliance, materials composition, packaging, environmental benefit, disposal).

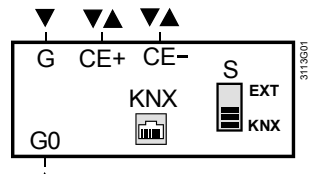
**Weight**

Excl. packaging	0.215 kg
Connection cable	0.110 kg

\*) The documents can be downloaded from <http://siemens.com/bt/download>.

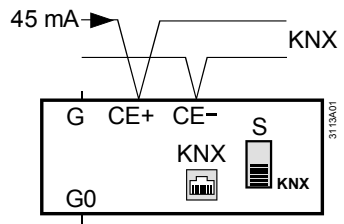
Connection diagrams

Connection diagram

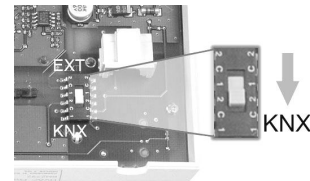


G, G0 Operating voltage AC 24 V  
 CE+ KNX bus data line (positive)  
 CE- KNX bus data line (negative)  
 KNX RJ45 connection plug for KNX bus  
 S Slider to select power supply KNX / EXT  
 KNX: Supply from KNX bus (power consumption 45 mA)  
 EXT: External supply AC 24 V via terminals G, G0, power consumption 5 mA

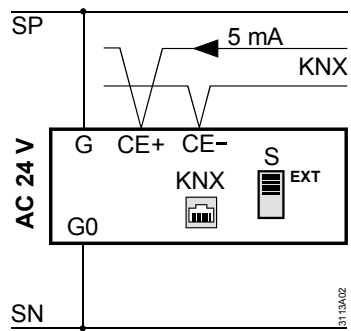
Supply from KNX bus (fixed installation)



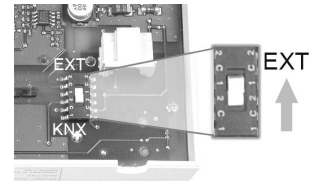
Slider setting S:



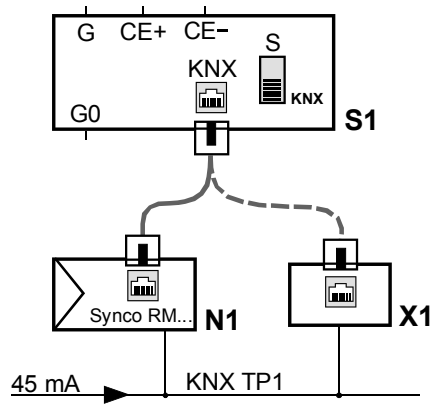
Supply external AC 24 V (terminals G, G0)



Slider setting S:



Supply from Synco device or bus plug via supplied cable



Slider setting S: KNX

N1 Synco RM.. control unit  
 S1 RMZ792 bus operator unit  
 X1 KNX bus plug

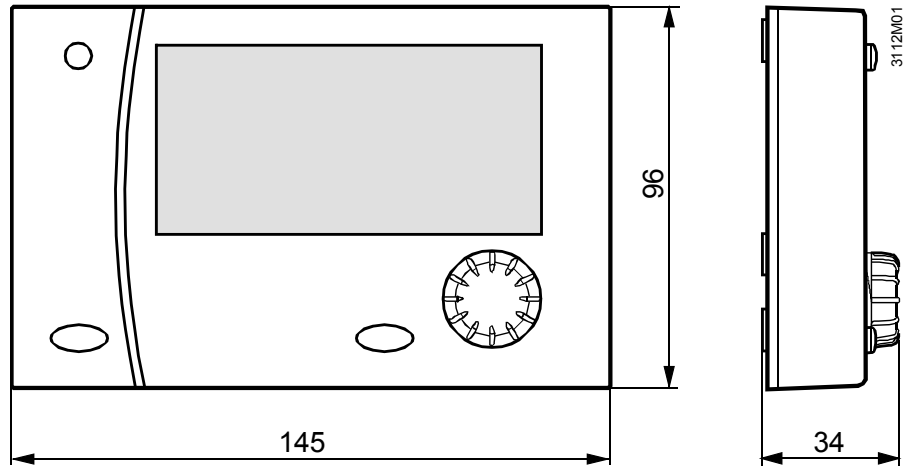
Note

See basic documentation P3113 to configure RMZ792 bus operator unit.

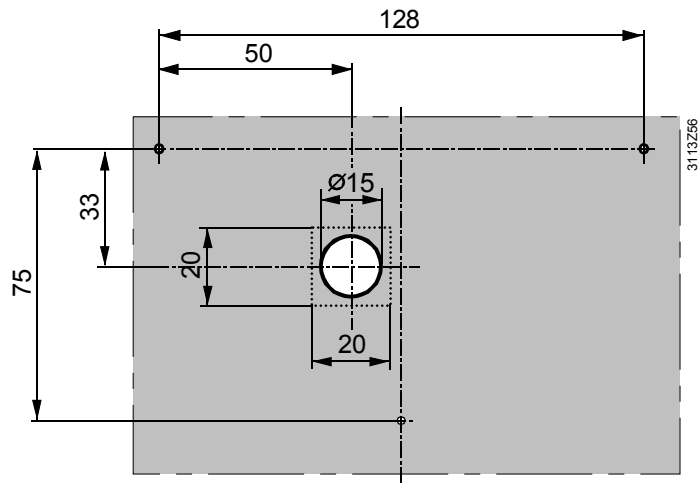


## Dimensions

### Bus operator unit



### Drilling diagram for front mounting



Dimensions in mm