



Synco™ 700



## Bus Operator Unit

**RMZ792**

**Communicating operator unit for operating up to 150 controllers, room units and central units from the Synco™ 700 range via Konnex bus.**

**Favorite pages can be freely defined. Powered via Konnex bus or external AC 24 V power supply. Designed for fixed installation or mobile use.**

### Use

- Central remote operation of several devices of the Synco™ 700 range and of RXB individual room controllers in a Konnex network
- Operation of Synco™ devices from a remote location
- Mobile service unit for setting the parameters of plant

### Note

The RMZ792 bus operator unit is not suited for commissioning Synco™ 700 controllers. Commissioning of plant is made with the RMZ790 or RMZ791 operator units or the OCI700.1 service tool.

### Functions

#### Device list

- Device list with a maximum of 150 units
- Automatic device search run
- Automatic or manual sorting of device list
- Naming or renaming of devices
- Deletion of individual devices or of the entire device list

- Favorite pages**
- Maximum 20 favorite pages for compiling the most important plant values
  - Assignment of up to 10 plant values per favorite page
  - Naming or renaming pages and plant values
  - Sorting favorite pages
  - Deletion of favorite pages
- Handling faults**
- Fault indication by red LED and symbol
  - Acknowledgement and resetting of faults
  - List for indicating a maximum of 20 pending faults
- Operating levels**
- 4 operating levels: Info, user, service, and password level
  - User, service and password level with individual password protection
- Service functions**
- User-defined business card for service address / telephone
  - Data backup
- Bus functions**
- Automatic device address search
  - Display of fault status messages from other devices on the bus
  - Display of system time and date
- Supported devices**
- RMx7... controllers of the Synco™ 700 range
  - RXB2... and RXL2... individual room controllers
  - QAW7... room units
  - OZW77... central communication units
- Languages**
- German, English, French, Italian, Dutch, Polish, Czech, Slovakian, Hungarian, Spanish, Danish, Norwegian, Swedish, Finnish, Greek, Russian, Romanian, Slovenian, Serbian, Croatian
- Power supply**
- Via Konnex bus or external AC 24 V power supply

#### Type summary

Designation	Type reference	Languages
Bus operator unit	<b>RMZ792</b>	de, en, fr, it, nl, pl, cs, sk, hu, es, da, no, sv, fi, el, ru, ro, sl, sr, hr
Memory card for RMZ792	<b>RMA792</b>	de, en, fr, it, nl, pl, cs, sk, hu, es, da, no, sv, fi, el, ru, ro, sl, sr, hr

#### Ordering and delivery

When ordering, please give name and type reference:

Bus operator unit **RMZ792**.

The RMA792 memory card is included in the scope of delivery.

For updating languages and device descriptions, a **new** RMA792 memory card must be ordered.

## Equipment combinations

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The following types of devices can be operated with the RMZ792:

Type of device	Type reference	Data Sheet
Central control units	<b>RMB795...</b>	N3121
Heating controllers	<b>RMH760...</b>	N3131
Boiler sequence controllers	<b>RMK770...</b>	N3132
Switching and monitoring devices	<b>RMS705...</b>	N3123
Universal controllers	<b>RMU710...</b> <b>RMU720...</b> <b>RMU730...</b>	N3144 N3144 N3144
XB... room controllers	<b>RXB21.1/FC-09</b> <b>RXB21.1/FC-10</b> <b>RXB21.1/FC-11</b> <b>RXB22.1/FC-08</b> <b>RXB22.1/FC-12</b>	N3872 N3873 N3873 N3872 N3873
RXL... room controllers	<b>RXL21.1/FC-10</b> <b>RXL21.1/FC-11</b> <b>RXL22.1/FC-12</b>	N3877 N3877 N3877
Room unit for Synco™ 700 controllers	<b>QAW740</b>	N1633
Central communication units	<b>OZW771...</b> <b>OZW775...</b>	N3117 N5663

## Product documentation

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Type of documentation	Number
Basic Documentation RMZ792 with a detailed description of all functions	<b>P3113</b>
Installation Instructions (mounting and commissioning)	<b>G3113</b>
Environmental Declaration	<b>E3113</b>
Product range description Synco™ 700	<b>S3110</b>
Data Sheet "Konnex Bus KNX"	<b>N3127</b>
Basic Documentation "Communication via Konnex bus"	<b>P3127</b>
CE Declaration of Conformity	<b>T3110</b>

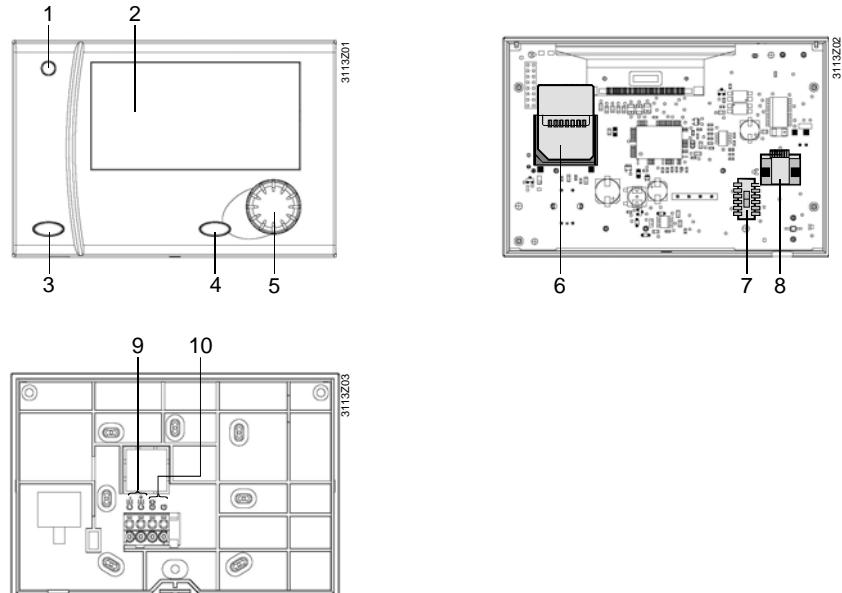
## Mechanical design

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The RMZ792 bus operator unit is designed for flush-panel or wall mounting as well as for mobile use. Cable entry is either through an opening in the mounting plate or a lateral opening in the upper housing section. The connecting cable supplied with the RMZ792 facilitates connection to Synco™ 700 controllers or a Konnex bus connector. Optionally, power supply and bus can be connected via screw terminals on the mounting plate.

For updating languages and device descriptions, the RMZ792 contains a memory card (type reference RMA792, can also be supplied as a separate item).

## Operating, display and connecting elements



- 1 INFO button  
 2 LCD  
 3 Fault button (!
- LED flashing:* Fault status message, ready for acknowledgement  
*LED lit:* Fault status message pending but not yet reset  
*LED off:* Normal operation, no fault status message  
*Press button:* Acknowledgement or resetting of fault
- 4 ESC button  
 5 Select-and-push knob (OK knob)  
 6 RMA792 memory card with languages and device descriptions  
 7 Slide switch KNX / EXT for selecting power supply (via Konnex bus or external power supply)  
 8 Socket for Konnex connecting cable RJ45  
 9 Connection terminals CE+ and CE- for Konnex bus  
 10 Connection terminals G and G0 for AC 24 V power supply

## Engineering notes



- When powering the unit via Konnex bus, power supply must be sized such that 45 mA are available for the RMZ792
- AC 24 V is required when using an external power source. It must satisfy SELV/PELV (safety extra low-voltage) requirements
- The transformers used must be safety isolating transformers with double insulation to EN 60 742 or EN 61 558-2-6; they must be suited for 100 % duty
- Fuses, switches, wiring and earth wires must be in compliance with local regulations for electrical installations

## Mounting and installation notes



- The RMZ792 bus operator unit is designed for:
  - Wall mounting
  - Flush-panel mounting (opening for cable entry required)
  - Mobile use
- The unit must not be fitted in wet or damp spaces; the permissible ambient conditions must be observed
- Prior to mounting the unit, the system must be disconnected from power
- Connection of the RMZ792 to plant being in operation is permitted only when using the connecting cable (RJ45 plug) supplied with the unit
- When the unit is open or when exchanging the memory card, protective ESD measures must be observed; the electronic components on the printed circuit board must not be touched

## Commissioning notes

- The configuration and the parameters of the RMZ792 bus operator unit can be changed on site any time by service staff who have been trained by **SBT HVAC Products** and who have the required access rights
- The RMZ792 is not suited for commissioning the bus users; this must be made on site with the help of the respective operator units or the service tool
- Correct assignment of the device addresses of all bus users is a prerequisite for troublefree operation of the bus operator unit
- The Installation Instructions provide detailed information on the steps to be taken when commissioning the plant

## General notes

<b>Maintenance</b>	The RMZ792 bus operator unit is maintenancefree (no battery changes, no fuses). The housing may only be cleaned with a dry cloth.
<b>Repairs</b>	The RMZ792 cannot be repaired on site.
<b>Disposal</b> 	The RMZ792 is waste electronic equipment in terms of the European Directive 2002/96/EG (WEEE, Waste of Electrical and Electronic Equipment) and must not be disposed of as part of unsorted municipal waste. Local and currently valid legislation must be observed and the device must be disposed of through appropriate channels.

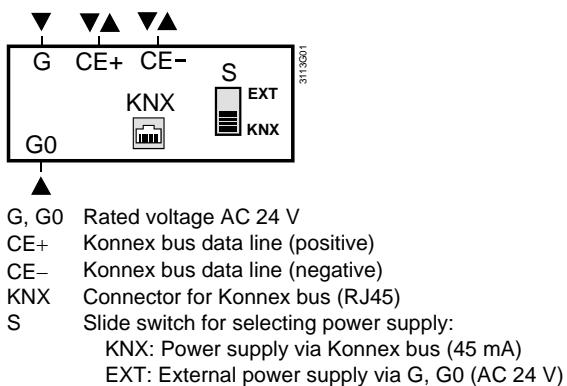
## Technical data

<b>Power supply (G, G0)</b>	Operating voltage Safety extra low-voltage (SELV) / protective extra low-voltage (PELV) to External safety isolating transformer (100 % duty, max. 320 VA) to	AC 24 V ±20 % HD 384 EN 60 742 / EN 61 558-2-6
	Frequency	50/60 Hz
	Power consumption	max. 2.5 VA
	Fusing of supply line	max. 10 A
<b>Interface</b>	Konnex bus Type of connection Type of interface Bus loading number Current draw bus when powered via bus Current draw bus when powered via external power source (G, G0) Short-time disruption of power supply to EN 50 090-2-2	screw terminals or RJ45 connector Konnex TP1, 9.6 kBit/s 0.5 45 mA 5 mA 100 ms
<b>Memory card (RMA792 )</b>	Memory card for RMZ792 Type Form factor Capacity	RMA792 DataFlash card, SPI-compatible MMC (MultiMediaCard) 8 MB
<b>Connecting cable</b>	For connection to Synco™ controllers or Konnex bus connector Type of cable Length	8-wire, both ends with RJ45 plug 3 m

<b>Cable lengths</b>	For Konnex bus Type of cable  Length	2-wire without shielding, twisted pairs max. 700 m
<b>Electrical connections</b>	Connection terminals For solid wires For stranded wires	screw terminals 0.05...2.5 mm <sup>2</sup> 0.05...1.5 mm <sup>2</sup>
	Konnex bus connection (CE+ and CE-)	not interchangeable
<b>Protective data</b>	Degree of protection of housing to IEC 60 529 Safety class to EN 60 730	IP20 (when installed) unit suited for use in equipment of safety class II
<b>Environmental conditions</b>	Operation to Climatic conditions Temperature (housing incl. electronics) Humidity Mechanical conditions	IEC 60 721-3-3 class 3K5 0...50 °C 5...95 % r.h. (non condensing) class 3M2
	Transport to Climatic conditions Temperature Humidity Mechanical conditions	IEC 60 721-3-2 class 2K3 -25...+70 °C <95 % r.h. class 2M2
<b>Classification to EN 60 730</b>	Mode of operation, automatic controls Degree of contamination, controls' environment Software class Rated surge voltage	type 1B 2 A 500 V
<b>Materials and colors</b>	Bus operator unit Packaging	polycarbonate, RAL 7035 (light-grey) corrugated cardboard
<b>Standards</b>	Product safety Automatic electrical controls for household and similar use	EN 60 730-1
	Electromagnetic compatibility For use in industrial and domestic environments Immunity Emissions Electrical system technology for homes and buildings (ESH-B)	EN 60730-1 EN 60730-1 EN 50 090-2-2
	conformity to EMC directive	2004/108/EC
	conformity to Australian EMC Framework Radio Interference Emission Standard	Radio communication act 1992 AS/NZS 3548
	Environmental compatibility The environmental product declaration CE1E3113 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) RL 2002/95/EG (RoHS)
<b>Weight</b>	Net weight (excl. packaging) Connecting cable	0.215 kg 0.110 kg

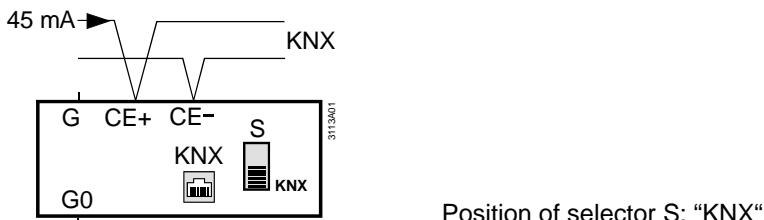
## Diagrams

### Internal diagram

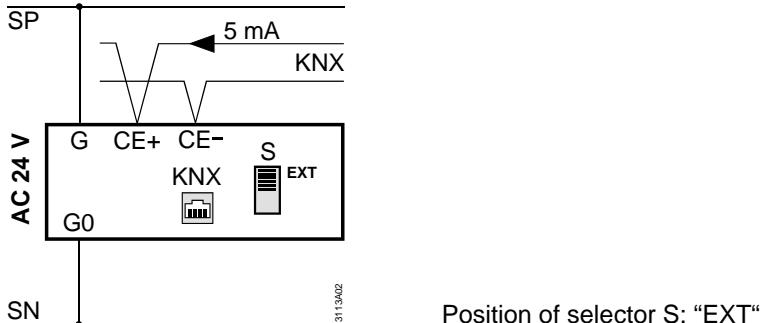


### Connection diagrams

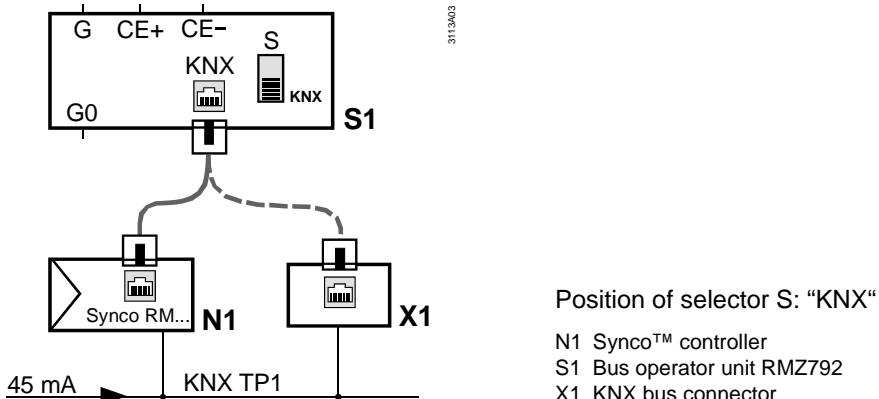
#### Power supply via KNX bus (fixed installation)



#### External power supply AC 24 V



#### Power supply via Syncro™ controller or bus connector with RJ45 cable supplied with the unit

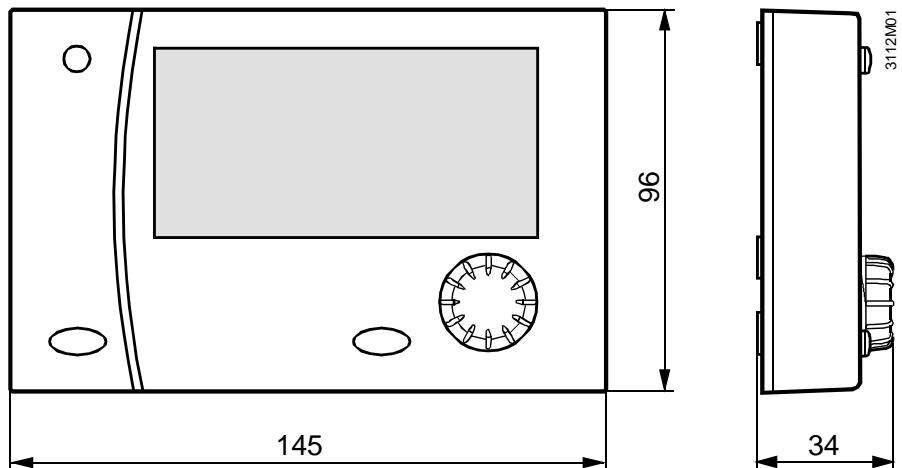


#### Note

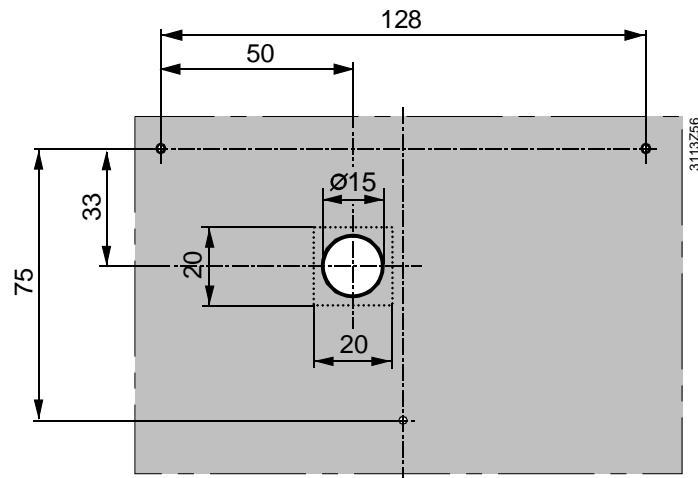
For the required internal configuration of the RMZ792, refer to Basic Documentation P3113.

## Dimensions

Bus operator unit



Drilling plan for  
flush-panel mounting



Dimensions in mm