



Rita Room Controller

the multilevel room controller

RITA

Please read the following information carefully for proper use of the product.

1 Delivery contents

Lime RITA KNX is supplied with the following components:

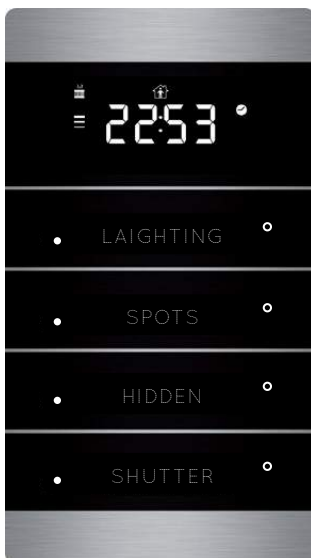
- 1 pcs. Bus coupler (Figure 1)
- 1 pcs. Lime RITA KNX unit
- 1 pcs. aperture suitable for the KNX unit
- 1 frame suitable for the KNX unit
- 2 pcs. Unit screws, 1 frame screw, 1 magnet

2 Installation instructions

Use only in dry rooms.

3 Latest product data and Software

Under www.Lime-smart.com you can find the current ETS database file as well as the current product description.



Room controller heating and cooling	Yes
Measurement temperature and humidity	Yes
Measurement of light color and light incidence	Yes
Rockers / buttons, a menu button	4.8
Number of rockers / buttons Functions	16 / 32
Labeling field for each rocker	Yes
Large display	Yes
Representation of 28 characters with autoscrolling on the dot matrix	Yes
Use of the dot matrix for the representation of symbols	Yes
External switching contact	Yes
Busversorgt	Yes
Length / width (mm)	180 / 90
Height (mm)	8.6

PRODUCTION IN GERMANY, CERTIFIED ACCORDING TO ISO 9001



4 Safety instructions

- Installation and assembly of electrical equipment may only be carried out by qualified electricians.
- When connecting KNX/EIB interfaces, KNX training is required.
- The manufacturer is not liable for costs or damages caused to the user or third parties by the use of this device, misuse or interference of the connection, malfunctions of the device or of the subscriber devices.
- Unauthorized alterations and modifications to the device will void the warranty!
- The manufacturer shall not be liable for any inappropriate use.

5 Assembly and wiring

The assembly must be carried out as follows:

- Connection to the bus via the bus terminal (black/red). Device is only powered by the bus.
- Optional: Connection of the external contact (binary input) via the switch terminal (blue/blue).
- Installation of the bus coupling unit (Figure 1) by means of screw mounting in the wall box. The screw terminals of the flush-mounted socket must be at the top when installing.

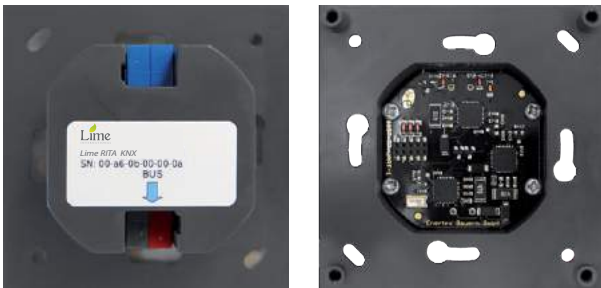


Figure 1: Bus coupler back and front without ESD protection foil

- Removing ESD protection foil.
- Connect the frame to the bus coupler and screw the frame and the bus coupler with the two screws of the flush-mounting box.



Figure 2: Frame on bus coupler

- Carefully attach the Lime RITA KNX unit to the bus coupling unit, connect it to the bus coupler using the two supplied device screws and secure the frame to the Lime RITA KNX unit using the supplied frame screw.

CAUTION: Do not use excessive torque.



Figure 3: Lime RITA KNX unit mounted

- Removing the screen protector
- Centering of the diaphragm (Figure 4)
Solid support is ensured by neodymium magnets.

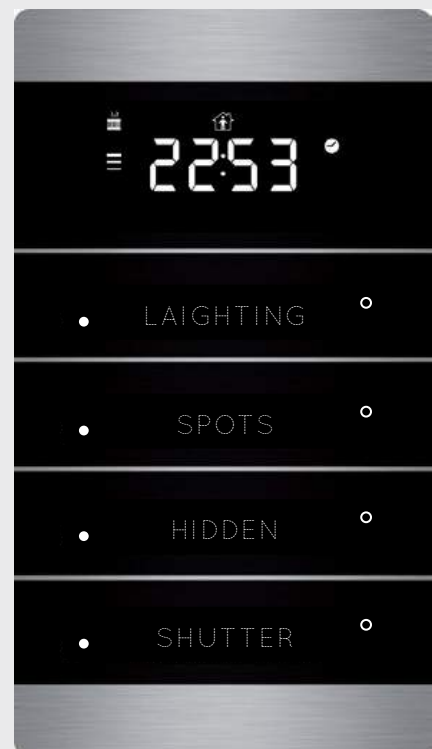


Figure 4: Diaphragm mounted

6 Position and function of the display and control elements.

Figure 5 shows the menu button below the labeled rocker switches.

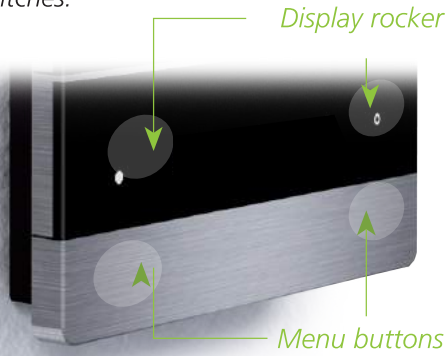


Figure 5: Display rocker and menu buttons



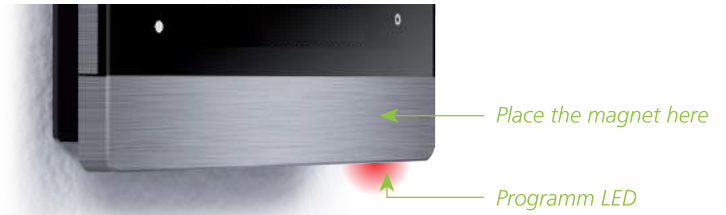
Figure 6: RITA KNX and frame program switching rocker

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7 Commissioning

Use the ETS to change the physical address of the Lime RITA KNX. To place the unit in the programming mode, hold the supplied magnet to the right of the menu button until the programming LED on the bottom of the menu button on the lower right lights red.



Load an ETS application. As described in the manual, make sure that the correct version of the database is used in the application in relation to your version.

The room temperature sensor is located on the bottom of the housing; the light incident is measured from above.

8 External contact – Binary input

The binary input is connected via the built-in socket (blue plug). An arbitrary potential-free installation switch is suitable as an external switching contact. The switching voltage is provided by the room controller.

9 Specifications

- Power supply via the KNX bus voltage:
 - DC 21...32 V SELV
 - Current consumption 39 mA bei 30 V
 - Connector type 5.1
- External contact (binary input) Supply by Lime RITA KNX mit DC $\leq 21,5$ V
- Ambient temperature: $-5 \dots +45^\circ \text{C}$
- Installation:
 - Only for use in dry indoor areas
 - Protection class IP20
 - Protection class III
- Dimensions: 90 x 161 x 14,6 mm (W x H x D)

12 KNX

This device complies with the KNX guidelines. Detailed knowledge of KNX and KNX training are a pre-condition for understanding and proper installation. Planning, installation and commissioning of the device are done with KNX-certified software.

13 Support

The standard support is provided by the e-mail address: Support@lime-smart.com