REGIN IN20020 ED-RUD Display Instructions

Contents

REGIN IN20020 ED-RUD Display

- Note! More information about the product can be found in the manual, which is available for download from www.regincontrols.com
- Caution! Read and understand the instruction before using the product.
- Caution! Ensure that the installation complies with local safety regulations.
- Caution! Before installation or maintenance, the power supply should first be disconnected. Installation or maintenance of this unit should only be carried out by qualified personnel. The manufacturer is not responsible for any eventual damage or injury caused by inadequate skills during installation, or through removal of or deactivation of any security devices.

Technical Data

Supply voltage	24 V AC/DC (22…26 V AC/DC)
Power consumption	60 mA
Protection class	IP30
Ambient humidity	10…90 % RH (non-condensing)
Ambient temperature	0…50 °C
Storage temperature	-20…+70 °C
Cable connection	Terminal block, push-in. Max. 1.5 mm2 (AWG 16)
Mounting	Room (flush-mounted with screw distance cc 60 mm)

Display	Built-in
Display type	LED-backlit LCD
Dimensions, external (WxHxD)	95 x 95 x 23 mm

Serial port	1
Port type	RS485
Supported protocol	Modbus (RTU)
Communication speed	38400 bps (4800…38400 bps)
Parity	Even (Even, Odd, None)
Stop bit	1 (1 or 2)

Installation

The room unit is installed indoors on a wall, using the mounting holes on the back plate. It is to be installed on an EU standard wall mounting box as the terminal block stands out a few millimetres from the back plate.

Note! The display is pre-configured upon delivery and can therefore be used directly together with Regin's room controllers. When used with other controllers, the communication settings might need to be changed in the Firmware configuration menu (see Table 1).

Wiring

Depending on the used controller there are two different wiring options:

- Option 1: The room unit is connected via a EDSP-K3 cable to the controller's display port.
- Option 2: The room unit is connected to the controller's serial port. The supply voltage is connected to the same supply voltage as the controller (G and G0).

Note! For connecting ED-RUD to RegioArdo and RegioEedo ooppttiioonn 11 must be used.

Terminal	EDSP-K... wire color	Description
+24 V	Black	Supply voltage, G
N	White	Supply voltage, G0
B	Brown	Serial communication port, Com B
A	Yellow	Serial communication port, Com A

Wiring according to option 1

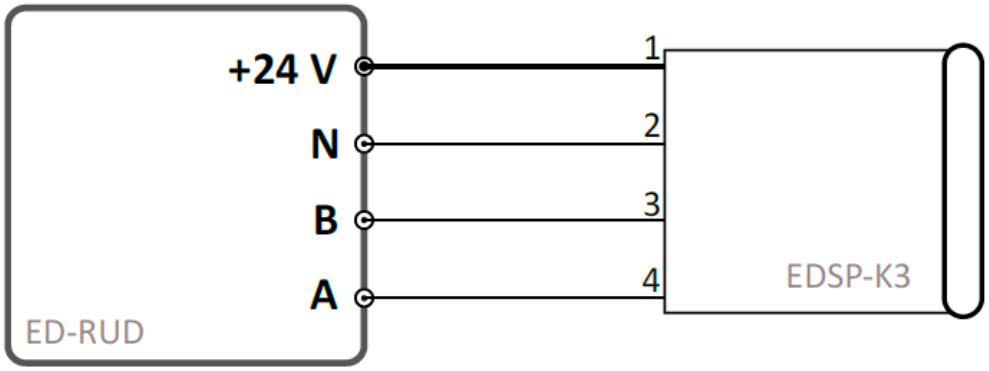

Figure 1 Communication via EDSP-K… (1=Black, 2=White, 3=Brown, 4=Yellow). Only option for connection of Regio Ardo and Regio Eedo.

Wiring according to option 2

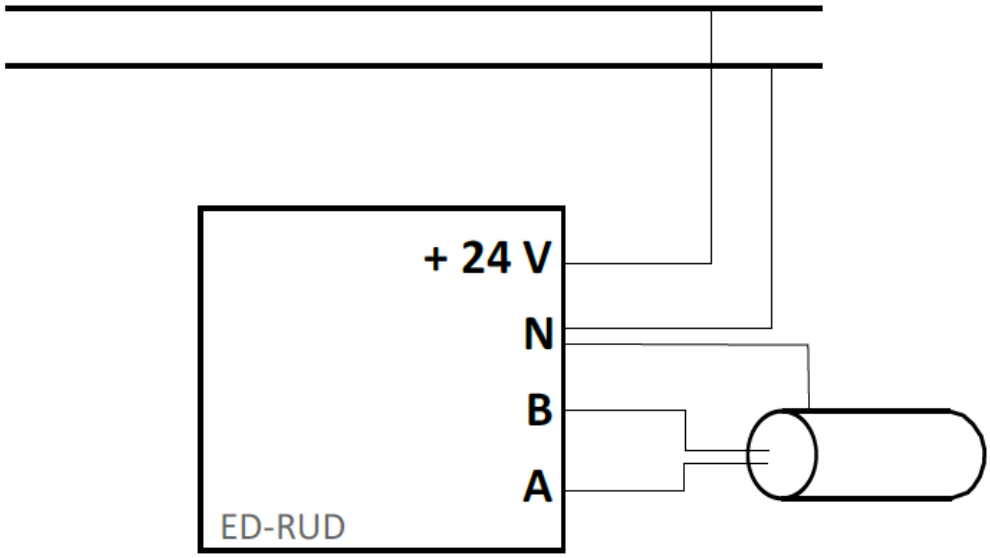

Figure 2 Communication via the serial port. This option does not work for Regio Ardo and Regio Eedo.

Handling

The display consists of segments and buttons that all can be controlled individually via the Modbus master. Regardless if the display is connected to a master controller or not it is always possible to configure communication parameters in the display:

1. Power up the display and press the On/Off button for 5 seconds while in Power up sequence, then press the arrow down button twice
2. Navigate in the Firmware configuration menu with the arrow buttons
3. Press the On/Off button to select a parameter. Use the arrows to adjust the value. Always confirm with the On/Off button.
4. At the end of the menu the word EXIT appears in the display. To exit the menu press the On/Off button when in EXIT.

Note After changing parameters, make sure to have the power on at least 5 s to ensure that the values are stored

correctly.

Table 1 Firmware configuration parameters

Parameter	Description	Default
1	The Modbus Address the controller uses 1…254	1
2	Modbus stop bits and Parity 0 = 8N2 1 = 8O1 2 = 8E1 3 = 8N1	2
3	Modbus Time Out At least 1.5 times a character min = 2 ms (at 9 600 baud)	3
4	Modbus Answer delay At least 3.5 times a character min = 5 ms (at 9 600 baud)	5
5	Modbus baud rate 0 = 4800 bps 1 = 9600 bps 2 = 19200 bps 3 = 38400 bps	3

For more information regarding the configuration of the buttons and segments as well as the available Modbus variables, see the document Variable list ED-RUD.

Function
ED-RUD is a slim flush-mounted room unit with backlit touch screen. It can be used as Plug'n Play with some of Regin's controllers or together with any Modbus master controller.
This product carries the CE-mark. More information is available at www.regincontrols.com.

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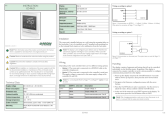
Documents / Resources

	REGIN IN20020 ED-RUD Display [pdf] Instructions IN20020 ED-RUD Display, IN20020, ED-RUD Display, RUD Display, Display

References

- Regin — Regin
- Select country or region — Regin
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