Gevako RS6 - Installation and User Manual

1. Introduction

Congratulations on purchasing the Gevako RS6! With this smart module, you can easily control up to six different devices via Home Assistant.

Whether you want to control a pool pump, lighting, or the control valves of your underfloor heating: the RS6 makes automation clear and efficient. We designed the product so you can get started quickly.

Check www.gevako.com for handy instructional videos, YAML files, and firmware updates.

2. Safety Instructions

- **Warning:** Always turn off the power before starting the installation to prevent electric shock.
- Installation may only be carried out by certified and qualified personnel.
- Ensure the connected devices do not exceed the maximum load per output: **16 A (3680 W)** at 230 VAC, or **16 A (480 W)** at 30 VDC. Pay extra attention to devices with a high inrush current (>16 A). In that case, use a separate contactor to control this heavy device and then switch this contactor with the RS6.
- Install the device in a dry environment. For damp areas, a distribution box with at least an IP65 rating is required.
- The RS6 is intended for indoor use only in a suitable distribution box. Keep the device out of reach of children and pets.
- Install the RS6 behind a Type A residual-current device (max. 30 mA fault current) and a B-characteristic circuit breaker (max. 16 A).
- Do not use the product if there is visible damage. In that case, contact us for support.
- Damage resulting from non-compliance with these safety instructions is not covered by the warranty. Gevako accepts no legal liability for this.

3. Package Contents

Check if the following items are present before you begin:

- 1x Gevako RS6
- 1x Installation and User Manual

4. Installation

4.1 Preparation

- Ensure there is enough space on the DIN rail in your distribution box.
- Turn off the power of the group/box where you will install the RS6.

4.2 Mounting on the DIN rail

1. Place the top of the RS6 at an angle of about 30 degrees on the top edge of the DIN rail.
2. Carefully pull the white clip at the bottom downwards with a flathead screwdriver.
3. Push the bottom of the RS6 against the DIN rail while holding the clip down.
4. Remove the screwdriver. The white clip will now spring up and clamp the device onto the rail.
5. Check if the RS6 is securely attached by gently moving it. Note: a slight cracking sound while doing this is harmless; this is because the clip is made of thin layers.

4.3 Connecting the RS6

In de onderstaande tabel vind je een beschrijving van alle aansluitingen:

Number	Label	Description
1	I1	Power source output. Max 250 VAC / 30 VDC, 16 A.
2	O1	Switched output. Max 250 VAC / 30 VDC, 16 A.
3	I2	Power source output. Max 250 VAC / 30 VDC, 16 A.
4	O2	Switched output. Max 250 VAC / 30 VDC, 16 A.
5	I3	Power source output. Max 250 VAC / 30 VDC, 16 A.
6	O3	Switched output. Max 250 VAC / 30 VDC, 16 A.
7	I4	Power source output. Max 250 VAC / 30 VDC, 16 A.
8	O4	Switched output. Max 250 VAC / 30 VDC, 16 A.
9	I5	Power source output. Max 250 VAC / 30 VDC, 16 A.
10	O5	Switched output. Max 250 VAC / 30 VDC 16, A.
11	I6	Power source output. Max 250 VAC / 30 VDC 16, A.
12	O6	Switched output. Max 250 VAC / 30 VDC 16, A.
13	L	Phase 230 VAC.
14	N	Neutral 230 VAC.
21	B	BOOT / Reboot (2 s) / Factory reset (10 s)
23-24	USB	USB-C connector. Max 5 VDC and a current of 1 A.

4.4 Wiring Instructions

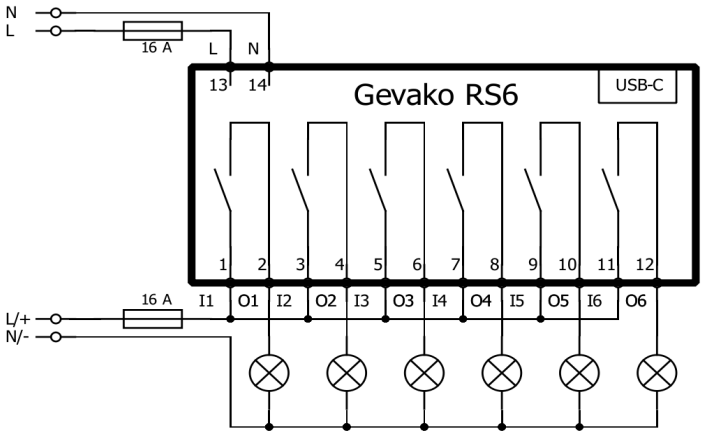

Figure 1: Example application with the RS6

1. Connect the phase (AC) or positive (DC) of a suitable power source to the inputs (1, 3, 5, 7, 9, and 11).
2. Connect the phase/positive of the devices to be controlled to the outputs (2, 4, 6, 8, 10, and 12) of the RS6. Connect the neutral/negative of the devices directly to the neutral/negative of the power source. Check if the polarity is correct and if the (peak) current does not exceed 16 A.
3. Choose a power supply for the RS6: use a 230 VAC source (13-14) or a 5 VDC (USB-C) power source. Connect the chosen terminals. *Tip: If both are connected, 230 VAC takes priority over USB-C. You can therefore also use USB-C as a backup power supply.*
4. Double-check that all wires are securely fastened and no bare copper is visible.

5. Configuration

Ensure a 2.4 GHz Wi-Fi network is active and your Home Assistant is functioning properly. There are two methods to connect the RS6 to Wi-Fi: via Bluetooth or via an Access Point (AP).

5.1 Connecting the RS6 to Wi-Fi

Method A: Connecting via Bluetooth (Recommended)

1. Turn on the RS6 by connecting the power supply (USB-C or 230 VAC). The red LED will light up and the green LED will flash. Wait 1 minute.
2. Enable Bluetooth on your smartphone or PC. Ensure this device is connected to your desired 2.4 GHz Wi-Fi network.
3. In Home Assistant, go to **Settings > Devices & services**. The Gevako RS6 is already listed here as a discovered device. Click **Configure**. *(Restart the RS6 and possibly Home Assistant if the device does not appear).*
4. Enter your 2.4 GHz SSID (network name) and password and click **Continue**.
5. The RS6 is now connecting. Once the green LED is continuously on, the connection is successful. Click **Continue** again. Proceed to step 5.2.

Method B: Connecting via AP method (Fallback)

1. Turn on the RS6 by connecting the power supply (USB-C or 230 VAC). The red LED is on and the green LED flashes.
2. Connect your laptop or smartphone to the temporary Wi-Fi network: **"Gevako-RS6-AP"**.
3. Open a browser and go to `192.168.4.1`.
4. Select your own 2.4 GHz Wi-Fi network and enter the corresponding password.
5. Click **Save**. The RS6 will now try to connect. Once the green LED is continuously on, the connection is established. Proceed to step 5.2.

5.2 Adding the RS6 to Home Assistant

1. In Home Assistant, go to **Settings > Devices & services**. The RS6 is listed here as a newly discovered device. Click **Configure**.
2. Click **Submit**.
3. Select a room if desired and optionally change the name. Then click **Finish**.
4. The RS6 is now ready for use!

6. Usage

Open the Home Assistant interface via the app or browser.

1. Select the RS6 in the relevant overview or dashboard.
2. Use the buttons to independently turn each of the six connected devices on and off.
3. You can now also easily integrate the outputs into your own automations.

7. Specifications

- **Outputs:** 6 channels, SPST-NO Relay. Maximum 16 A up to 250 VAC (3680 W) / 30 VDC (480 W) per channel.
- **Power supply:** 230 VAC (40 mA) or 5 VDC (1 A via USB-C).
- **Processor:** ESP32-C3.
- **Communication:** Wi-Fi 6, fully ESPHome compatible.
- **Housing:** Plastic DIN rail housing.
- **Dimensions:** 70 (W) x 86 (L) x 60 (H) mm.
- **Operating temperature:** -20°C to +40°C.
- **Developed and manufactured in:** The Netherlands.

8. Maintenance and Warranty

- **Maintenance:** The RS6 requires no regular maintenance.
- **Warranty:** This product comes with a 2-year manufacturer's warranty. Keep your proof of purchase safe for any warranty claims and contact our customer service.

9. Contact Details

For further support or questions, you can contact us via:

- Gevako B.V.
- info@gevako.com
- www.gevako.com

Thank you for choosing the Gevako RS6. We wish you the best of luck with your automation project!