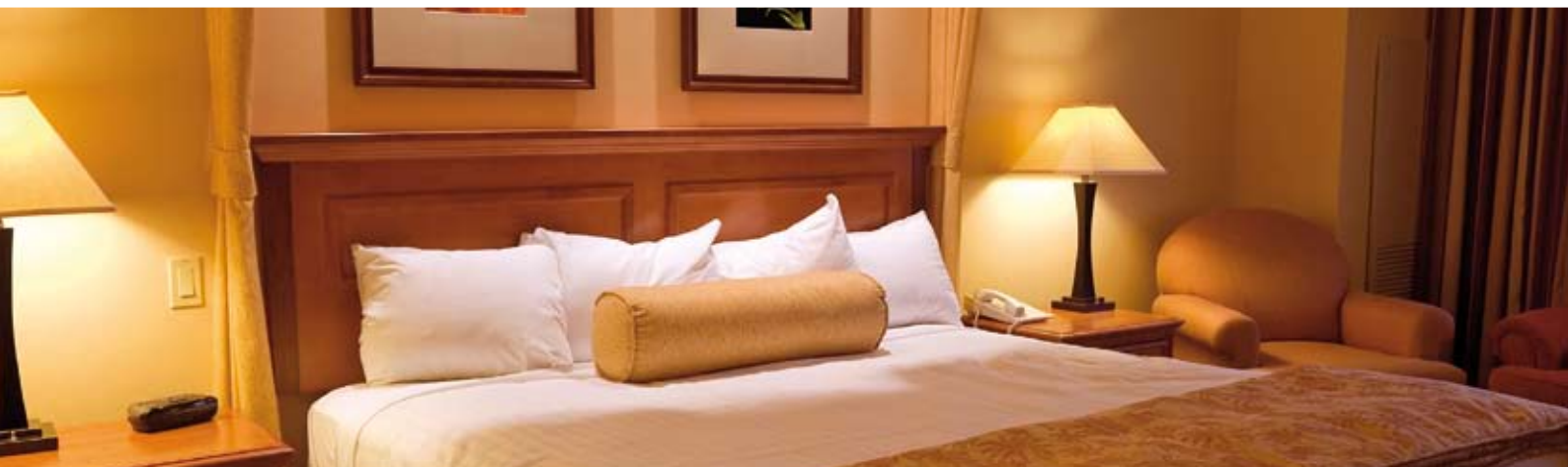


Hotel automation



Hotel room automation for all in-room services – simply, safely and quickly

RC Hotelbox is a self-contained room automation solution for hotels with integrated visualisation for interactive operation by guests, company technicians and facility management staff.

Easy integration of the entire RC services into the building and hotel management system with interfaces with the room reservation and access control systems.

Complicated processes made easy for technicians, operators and guests. The blue-room for hotels – energy efficient, long-lasting and with perfect comfort.

The requirements of the controller with integrated visualisation software can be adapted quickly and reliably to match the hotel standards of hotel planners and hotel operators around the world and can be integrated with any building control technology with no problems at all.

The rc-rac-200 covers the following functions:

- Lighting
- Heating
- Cooling
- Ventilation
- Blinds
- Curtains
- Connected power sockets
- Room operation devices
- HVAC
- Card reader
- Welcome scenarios
- Window contact



Simple

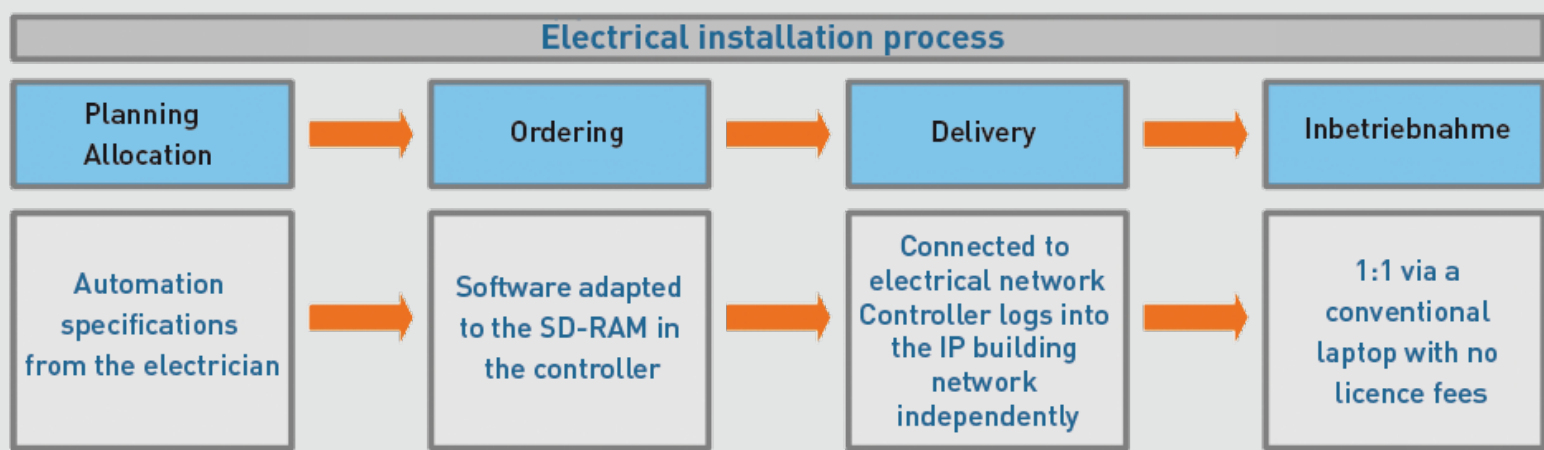
Install, connect and the software automatically logs into your building network

Complete

We supply the control boxes, the pre-prepared cables and the visualisation. The software is operated via a standard laptop with no licence fees

Ready

Ready for immediate operation



The controller for the "blue-room" in your hotel – energy efficient, long-lasting and providing perfect comfort. And you can score points for sustainability, too.

Simply connect the full system
Intuitive operation, supplied ready-to-go

The compact automation unit

The rc-rac-200 is a compact automation unit with a fixed I/O mix that is ideally suited to most local applications in building automation, such as in hotels, schools and hospitals. Here, RaumComputer responds to our customers' need for a low-cost, self-contained automation unit that fulfils all the requirements of a TCP/IP participant in an Ethernet network. The Room Automation Controller can of course also be operated via a webpage using any browser-capable network participant. This opens up a wide range of application options, which we will gladly explore in more detail for you and adapt to your needs.

With the RC-BOS building operating system, we can create an application of your choice for room functions such as lighting, blind systems, temperature regulation, volumetric flow regulation and any other scenarios that you require based on the inputs and outputs available. The building operating system represents the automation level and is the connector to the field level, where the room automation services are mapped and provided to the user for interaction via web pages. Data transfer between individual automation stations (peer to peer) and the connection to the RC-BIS building operating system is carried out via an Ethernet network using TCP/IP. Communications with all browser-capable end devices such as IP phones, PDAs and mobile phones also takes place here. RaumComputer has the right solution for any requirements in this area.

Overview

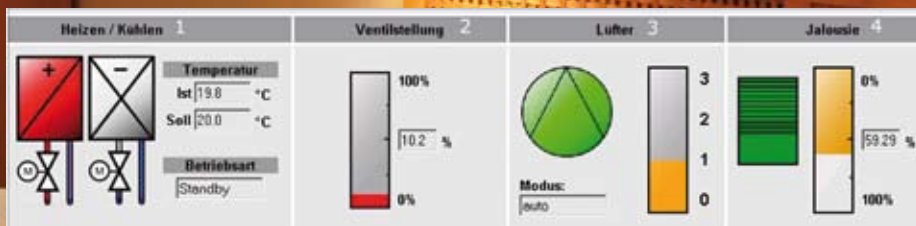
8 digital inputs
8 digital outputs
4 analogue inputs
4 analogue outputs

3 relay outputs, 5A
2 relay outputs, 10A

2 triacs, 0.5A
2 triacs



Integration of any room operation devices



Digital/analogue Ethernet I/O controller including web browser

Digital/analogue Ethernet I/O controller for regulation and control in building automation. For regular queries to all inputs (sensors). For the automatic or manual setting of outputs (actuators). Web server for parameterising, configuring and monitoring. Applications for regulating and controlling automation in hotel rooms and in the relevant rooms within the hotel complex can be loaded on non-volatile servers. Migratable run-time system.

Manufacturer: RaumComputer

Typ: rc-rac-200

Product no. 110900

Technical details

Operating temperature:	-5° to 55° C
Storage temperature:	-25° to 70° C
Operating voltage:	24V AC/DC ± 10% (50/60Hz)
Power input:	max. 190 mA
Power loss:	max. 5 W
Duty cycle:	100 %
Housing:	45 mm
Dimensions:	125 x 90 x 60 mm (WxHxD)
Weight:	430 g
Rating:	IP20
Assembly type:	TH35 mounting rail in accordance with IEC 60715
Connecting terminals:	double-level screw terminals
Cross-sectional area of conductor:	AWG 22 – 12/ 0.33 – 2.5 mm ²
Apposition:	possible with no spaces in between
Installation:	as desired, horizontal installation recommended
Processor:	ARM9 – 180 MHz
Internal memory:	RAM 64 MB / Flash 64 MB
External memory:	up to 4 GB microSD (optional)
Operating system:	Standard Linux embedded, Kernel Version 2.6.26 MC
RealTimeClock:	accuracy of 1 s/day; power failure bridging period 24 hours
Operational notifications:	LED, power on (green); booting/error (red)
Status notifications:	Ethernet link (green), 10/100MBit (green), collision (red)
Switching status =	LED; outputs and digital inputs, yellow, manual operation = green
Digital outputs	
Relay output:	3x changers / switching voltage 250 AC / operating voltage 5 A (Ohm-resistive load) 2x changers/ switching voltage 250 AC / operating voltage 10 A (Ohm-resistive load) Starting/breaking current max. 80 A (inrush) 1x two-stage/ switching voltage 250 AC / operating voltage 5 A (Ohm-resistive load)
Triac output:	2x / switching voltage 20 to 250 V AC / operating voltage 0.5 A (Ohm-resistive load) Starting current max. 0.8 A (10 s)
Transistor output:	3x PNP / 24 V DC / 20 mA 1x PNP / 15 V DC / 30 mA
Manual operation:	push-button, switching from automatic operation to manual operation by pressing the button > 1 s
Displays:	switching status (yellow), manual operation (green)
Digital inputs	
Optical couplers:	8x optically separate / input voltage max. operating voltage
High recognition:	>7 V AC/DC, counting frequency 2 kHz Inputs 5 – 8 can be configured in conjunction with transistor outputs as S0 electrical interface in accordance with DIN EN 62053-31 class A, max counting frequency 25 Hz
Display:	input status (yellow)
Analogue inputs	
	4x able to be configured; Resistance from 40 Ω to 4 MΩ Resolving power 0.2 K, margin of error approx. ±0.2° C
	Input voltage 0 to 10V DC Resolving power 10 mV (0 to 100%) Margin of error approx. ±10 mV
Analogue outputs	
	3x / output voltage 0 to 10 V DC Output current 5 mA (10 V DC) Resolving power 10 mV Manual operation: push-button, switching from automatic operation to manual operation by pressing the button > 1 s Display: switching status (yellow), manual operation (green)
Interfaces	
Network:	Ethernet 10/100BaseT autosensing, TCP/IP protocol
Connection:	RJ45 port
Memory card slot:	microSD



Image 1



Image 2



Image 3



Image 4

Image 1: plug in view, controller

Image 2: function display and emergency operation level

Image 3: side view

Image 4: SD-RAM card plug base