

Alpha Smartware Room Control Unit

The Alpha Smartware Room Control Unit Display senses the room temperature and humidity in the room and controls the appropriate heating zone via the Alpha Smartware Base Station for floor temperature adjustment. Settings are made via the setting wheel with rotary and push mechanism and the display indication. Optionally, the room control unit can also be operated via the Alpha Smart app.



1.1 Features

- High-quality, modern OEM design
- OEM differentiation of appearance and function
- Perfect for the use in detached and multi-family houses
- Uses the 868/869 MHz SRD band
- For the use with surface heating systems
- Large, clear LC display
- Self-explaining, language-neutral operation and user guidance
- Comfortable operation with rotary control (rotary-push action with fine dynamical ratchet)
- Display of room temperature, humidity and operating status
- High-quality decorative panel made of scratch-proof plastics (optional)
- Wall and flush-type box installation (Germany & Switzerland)

1.2 Versions and scope of delivery

In the basic version, the Alpha Smartware Room Control Unit Display will be delivered as neutral device without logo and in white.

The Quick Install Guide for installation and commissioning is included in the following 12 languages:

- German
- English
- French
- Dutch
- Italian
- Spanish
- Danish/Norwegian
- Finnish
- Swedish
- Polish
- Russian

For more details on the products, system and cloud solutions, visit www.alphasmartware.de.

Type designation	Designation	Scope of supply
EC-52090WD	OEM Room Control Unit Display	<ul style="list-style-type: none"> • Room control unit • Quick Install Guide in 12 languages • 2 x AA battery

1.3 Optional extensions or differentiations to the basic version

Packaging	Individual printing and manufacturing of packaging
Casing	Individual designs, e. g. square, upright, horizontal format, individual colour
Casing printing	Laser imprint of the company logo on the housing (e.g. logo), the individual type designation and device name
Lower part of casing	Colour adaptation, form change
Rotary control	Individual colour adaptation
Please contact us if you have further wishes.	

1.4 Accessories

- Gateway (EC-50001)

1.5 Displays

The Room Control Unit Display features a functional, language-neutral display. The internationally understandable symbols guarantee intuitive operation.

	AUTO	Automatic mode active		Heating mode active
	MANU	Manual mode active		Vacation mode active
		Lowest possible measuring temperature undershot		Low battery
		Important note/malfunction		Radiated power
		Humidity and time alternating, if connected to cloud		Relative humidity, temperature
	BACK	Back		Confirmation

2 Technical data

Type designations	EC-52090WD
Voltage supply	2x LR06/AA (mignon) alkaline battery
Type: Battery service life	3 years
Reverse polarity protection	mechanical via battery support concept
Remote and ground sensors	n/a
External temperature sensor	n/a
Radio technology	868.3 and 869.525 MHz SRD band
Radio protocol	cSP-L
Typical free-field radio range	270 m
Degree of protection	IP20
Admissible ambient temperature	0 °C to 50 °C
Admissible ambient humidity	5 to 80 %, not condensing
Storage/transport temperature	-10 °C to +50 °C
2014/53/EU radio equipment; 2011/65/EU ElektroG, or RoHS compliant	2014/53/EU radio equipment; RoHS Directive 2011/65/EU
Material	ABS (casing, base, rotary control) / PMMA (disk)
Colour	RAL9003 (signal white)
Outer dimensions	86 x 86 x 24 / 26 (decorative panel) mm / 31.5 mm
Weight	125 g / 130 g (decorative panel)
Visible display area	33 x 57 mm
Target temperature setting range	5 to 30°C
Target temperature resolution	0.2 K
Measuring range actual temperature acquisition (int. Sensor)	0...40 °C
Measuring accuracy of internal NTC	± 0.5 K
Packaging dimensions	91 x 88 x 57 mm

2.1 Dimensions

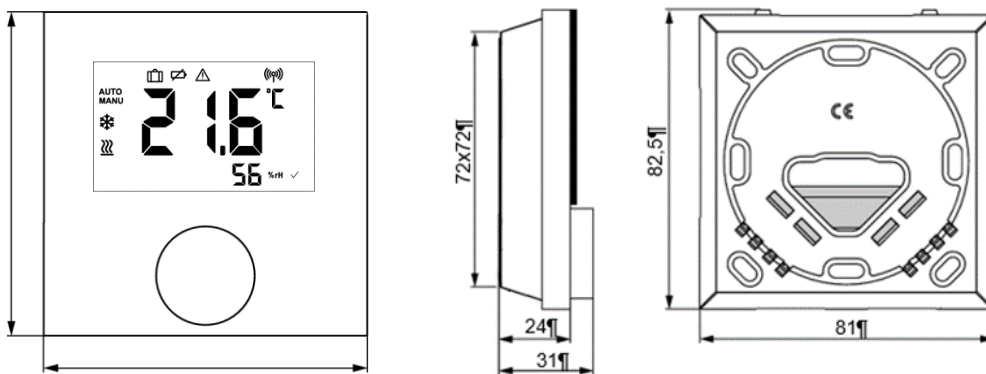


Fig. 1: Dimensions Room Control Unit Display and external sensor (in mm)

2.2 Approvals & certificates



The CE identification documents that the products that the products placed on the market comply with the applicable requirements of the EU Directives.