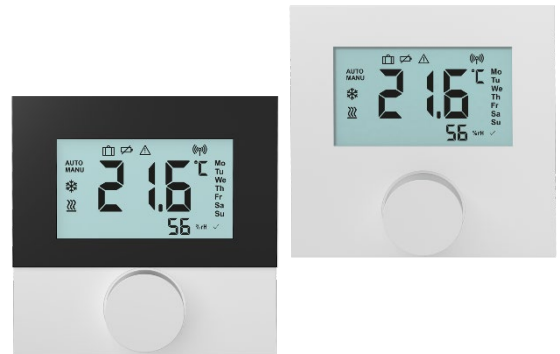# OEM Alpha Smartware Room Control Unit Display

The OEM 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 setpoint adjuster 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 implementation of surface heating

- Large, clear LC display
- Self-explaining, language-neutral operation and user guidance
- Comfortable operation with set point adjuster (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)

The Möhlenhoff OEM product quality ensures easy, intuitive installation, operation and maintenance of the entire system.

1.2   Versions and scope of delivery

In the basic version, the OEM 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 11 languages:

- German
- English
- French

- Dutch
- Italian
- Spanish

- Danish/Norwegian
- Finnish
- Swedish

- Polish

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

Type designation	Designation	Scope of supply
RDS 61011-N7	OEM Room Control Unit Display	• Room control unit • Quick Install Guide in 11 languages • 2 × AA battery
RDS 61011-N1	OEM Room Control Unit Display Decorative Panel	• Room control unit with decorative panel • Quick Install Guide in 11 languages • 2 × 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
Set point adjuster	Individual colour adaptation

Please contact us if you have further wishes.

1.4   Accessories

- Cover frame (RA 02001-00N1)

1.5   Displays

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

Symbol	Description	Symbol	Description
⚙	**Settings**	🔒	**Operating lock active**
AUTO	**Automatic mode** Creation of heating and cooling profiles* only via Alpha Smart app	↑	**Radio connection status** no reception (< 180 min)
		⚠↑	no reception (≥ 180 min)
MANU	**Manual mode** possible without cloud connection, standalone operation	(ᵖ)	**Radio connection status** poor reception
❄	**Cooling mode* ****	(((ᵖ)))	**Radio connection status** very good reception
⧸⧸⧸	**Heating mode**** active**	℃	**Temperature**
🔧	**Service case** (sensor defective) along with **Err tEmP**	**Mo ... Su**	**Weekdays**
ᗒᗕ	**Condensation detected**	88:88	**Humidity, time** alternating, if connected to Alpha Smart Cloud
🛄	**Vacation mode active** Settings only via Alpha Smart app	**%rH**	**Relative humidity**
🔋	**Low battery**	✓	**Confirmation**
⚠	**Important note/ Malfunction**	**BACK**	**Back to the initial menu** (Home)

onlyAlpha Smartware Premium
*** The symbol is NOT displayed if the Base Station is in heating/cooling mode AND the heating/cooling blocking parameter is set on the room control unit*

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Ⓜ Möhlenhoff

2   Technical Data

Type designations	RDS 61011-Nx
Voltage supply	2 × LR06/AA (mignon) alkaline battery
Type: Battery service life	3 years
Reverse polarity protection	Mechanical via battery support concept
Floor sensor	Via connection set (AT 61201-N) if room control unit is paired with Premium Base Station
Room sensor	Via connection set (AT 61201-N) if room control unit is paired with Premium Base Station
External dew point monitor	Via spring-loaded terminal of the connection set (AT 61201-N) and on-site dew point monitor, if room control unit is paired with Premium Base Station.
Radio technology	868.3 and 869.525 MHz SRD band
Max. transmission power	≤ 25 mW
Radio protocol	cSP-L
Type: Free-field radio range	270 m
Degree of protection	IP20
Admissible ambient temperature	0 °C – 50 °C
Admissible ambient humidity	5 – 80 %, not condensing
Storage/transport temperature	-10 °C – +50 °C
Material	ABS (casing, base, setpoint adjuster) / PMMA (disk)
Colour	RAL9003 (signal white)
Outer dimensions	86 × 86 × 24 / 26 (decorative panel) mm / 31.5 mm
Weight	125 g / 130 g (decorative panel)
Visible display area	33 × 57 mm
Target temperature setting range	5 – 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 × 88 × 57 mm

2.1   System boundary

Maximum number of devices: A maximum of 50 Alpha Smartware devices may be used within a radius of 50 metres. A larger setup is technically possible but not currently validated.
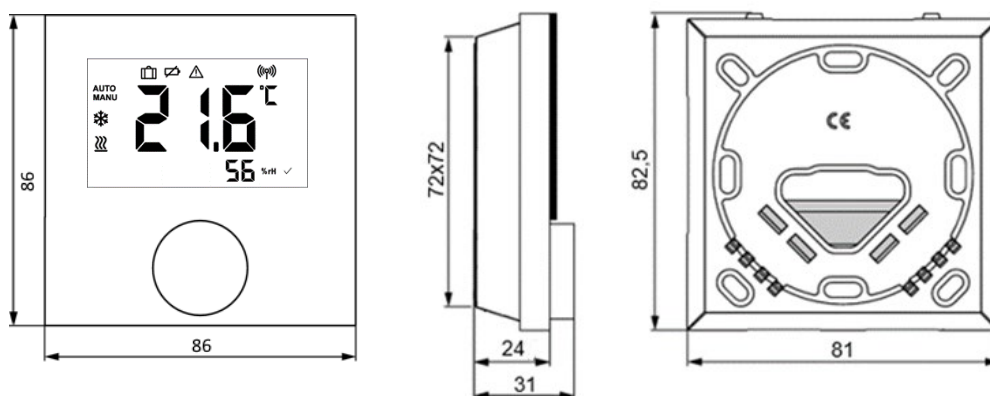
2.2   Dimensions

Fig. 1: Dimensions of OEM Alpha Smartware Room Control Unit Display (in mm)

2.3   Approvals and certificates

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