

# data sheet dialog RC-LCD (-rH)

## 1. Product description



The bidirectional radio room control units of the dialog RC-LCD series periodically transmit the measured room temperature and relative humidity (rH models only).

Two buttons for local setpoint adjustment are provided as standard. Depending on the model, additional buttons are available for fan level selection and for manual presence detection. The LC display shows the measured room temperature and, for rH models, also the relative humidity. Furthermore, the controller activity

(heating/cooling) and, depending on the model, also the room occupancy and the current fan level are displayed.

The units of the dialog RC-LCD series are optimally adapted for use with the spega e.control multisensor with lumina MS4/RC radio receiver and the dialog RC-E radio receiver.

### Available variants

The devices of the dialog RC-LCD series are available in pure white glossy. Other colours are available on request. The following variants are available:

RC-LCD(-rH)	RC-LCD(-rH) L-T	RC-LCD(-rH) P/L-T	RC-LCD(-rH) P-T

## Compatible standard switch ranges

The devices of the dialog RC-LCD series fit into the frames of the following switch programs:

- Berker S1, B1, B3, B7 Glass
- Gira System 55 (E2, Event, Esprit)
- Jung Series A500, AS500
- Merten System M (1-M, M-xxx)

## 2. Mounting

The device is designed for mounting on a flat wall surface. A suitable location must be selected for measuring room temperature and, if necessary, humidity. Direct sunlight and nearby sources of heat or cold will falsify the measurement result.

### Steps 1 and 2 (fixing the base plate):

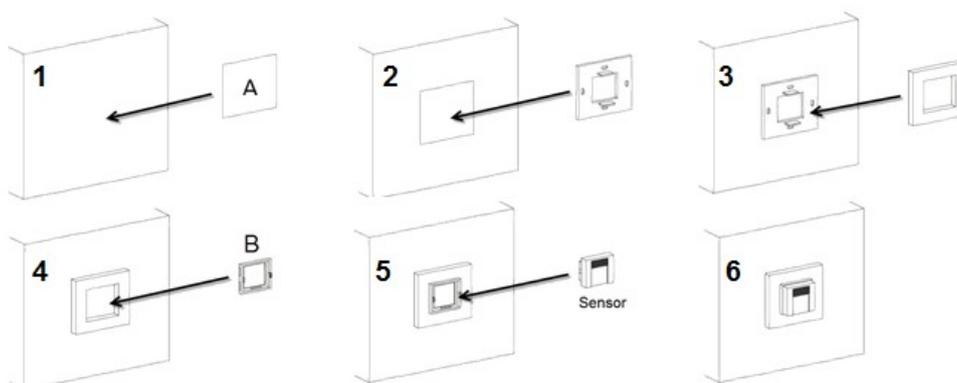
The base plate can be fixed with an adhesive pad (included in delivery) or with screws.

### Steps 3 and 4 (fixing the frame):

The frame from a compatible switch range is attached to the base plate with an intermediate frame if necessary.

### Steps 5 and 6 (fixing the room control unit):

The room control unit is mounted in the middle of the frame.



### 3. Technical Data

#### Radio transmitter

Supply	Solar powered energy storage
Frequency, modulation	868.3 Mhz, ASK
Transmission power	10mW max.
Dimensions	71 x 71 x 25mm

#### Frequency of sending

after keystroke	
every 100s (measured value acquisition)	If modified
every 1000s	otherwise.

#### Solar operation

mid-range illumination level	at least 200lx for 3-4h per day
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#### Optional battery operation

Battery	3V Lithium, CR1632 (not included)
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#### Temperature measurement

Area	0°C...+40 °C
Tolerance	typ. ±0,4 K

#### Humidity measurement (rH models only)

Area	0%...100% (non-condensing)
Tolerance	± 5% (at 30%...70%) typ. at 21°C

#### Setpoint

Area	± 1 K to ± 10 K (symmetrical, configurable)
Resolution	0,5 °C

**Radio range\*\***

without obstacles	30-100m*
Gypsum/wood walls	30m (max. 5 walls) *
Stone walls	20m (max. 3 walls) *
Reinforced concrete	10m (1 wall / ceiling) *
Metal	0m *

**Ambient conditions**

Operating temperature	-25°C ... +65°C in dry rooms
Transport	-25°C ... +65°C, max 70%rF, non-condensing

**Konformität CE**

89/336/EWG	Electromagnetic compatibility
R&TTE 1999/5/EC	Radio and Telecommunications Terminal Equipment

The products may be sold and operated free of registration and fees in the countries of the European Union and Switzerland.

\* The maximum achievable radio range depends on local conditions and can be significantly reduced by physical effects such as radio wave reflection and superimposition.

\*\* Operation in conjunction with repeaters is not supported.

## 4. Order information

Order number	Description
442 513 GW	<b>dialog RC-LCD</b> Wireless LCD room control unit with integrated temperature sensor and buttons for setpoint adjustment, pure white glossy
442 514 GW	<b>dialog RC-LCD L-T</b> Wireless LCD room control unit with integrated temperature sensor and buttons for setpoint adjustment and fan control, pure white glossy

Order number	Description
442 515 GW	<b>dialog RC-LCD P/L-T</b> Wireless LCD room control unit with integrated temperature sensor and buttons for setpoint adjustment, fan operation and presence, pure white glossy
442 516 GW	<b>dialog RC-LCD P-T</b> Wireless LCD room control unit with integrated temperature sensor and buttons for setpoint adjustment and presence, pure white glossy
442 523 GW	<b>dialog RC-LCD-rH</b> Wireless LCD room control unit with integrated temperature and humidity sensor and buttons for setpoint adjustment, pure white glossy
442 524 GW	<b>dialog RC-LCD-rH L-T</b> Wireless LCD room control unit with integrated temperature and humidity sensor and buttons for setpoint adjustment and fan control, pure white glossy
442 525 GW	<b>dialog RC-LCD-rH P/L-T</b> Wireless LCD room control unit with integrated temperature and humidity sensor and buttons for setpoint adjustment, fan control and presence, pure white glossy
442 526 GW	<b>dialog RC-LCD-rH P-T</b> Wireless LCD room control unit with integrated temperature and humidity sensor and buttons for setpoint adjustment and presence, pure white glossy
911 313 W	<b>lumina MS4/RC-EB</b> LON multisensor with EnOcean Dolphin radio receiver for recessed mounting, pure white
911 314 W	<b>lumina MS4/RC-AP</b> LON multisensor with EnOcean Dolphin radio receiver for surface mounting, pure white
441 301	<b>dialog RC-E</b> LON radio receiver

## 5. Support

The information given in this manual was carefully compiled. Should you have any further questions regarding this product, please contact:

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