

Technical Datasheet dialog RC-Tx(-rH)

1. Product description

The wireless room temperature sensor dialog RC-T transmits periodically without the use of batteries every 1000s the measured temperature. Significant changes in the measured values triggers the transmission of values within 100s. Additionally the rH models have an integrated relative humidity sensor.

The device is supplied with energy by a solar cell as long it is illuminated with at least 200lx for 3 to 4h a day.

The wireless room control device dialog RC-TS also transmits the value of a local set-point-adjusters.

Three colors are available and the devices fit the following 55mm x 55mm standard designs:

PEHA	Aura
BERKER:	S1, B1, B3, B7, Glass
GIRA:	Standard55, E2, Event, Esprit
JUNG:	A500, Aplus
MERTEN:	M-Smart, M-Arc, M-Plan



dialog RC-T(-rH)



dialog RC-TS(-rH)

2. Technical data

Radio transmitter

Supply	Solar powered energy store
Frequency, Modulation	868.3 MHz, ASK
Transmission power	10mW max.
Dimensions	71 x 71 x 25mm

Transmission frequency

every 100s (data logging)	if change >0.8K or >3° angle of rotation
every 1000s	otherwise

Solar operation

Mean illuminance	at least 200lx for 3-4h a day
Reserve, fully charged	ca. 60h

Optional battery operation

battery	3V Lithium, CR2032 (not included)
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Temperature

Range	0°C...+40°C
Abs. Accuracy	typ. $\pm 0,4^{\circ}\text{K}$

Rel. humidity (only rH Models)

Range	0%...100% (non-condensing)
Abs. Accuracy	$\pm 5\%$ (at 30%...70%) typ. at 21°C

Range of radio signal

No obstacles	30-100m*
Plaster/wooden walls	30m (max. 5 walls)*
Stone walls	20m (max. 3 walls)*
Reinforced concrete	10m (1 wall / ceiling)*
Metal	0m*

Set point (dialog RC-TS)

Range	0...270° angle of rotation
Resolution	1,1°

Environmental conditions

Operating temperature	-25°C ... +65°C in dry rooms
Relative humidity	-25°C ... +65°C, max 70%rH, non condensating

Conformity CE

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

The products may be sold and operated without registration and free of charge in the countries of the European Union and Switzerland.

*Note: The maximum range of radio signals depends on the local environment and can be reduced by physical effects like reflection and/or superimposition of the radio signals.

3. Order information

Order No.	Product
442 510 GW	dialog RC-T, Wireless room temperature sensor, pure white
442 511 GW	dialog RC-TS, Wireless room control device, pure white
442 512 GW	dialog RC-TS P-T, Wireless room control device, pure white
442 520 GW	dialog RC-T-rH, Wireless room temperature sensor, pure white
442 521 GW	dialog RC-TS-rH, Wireless room control device, pure white
442 522 GW	dialog RC-TS-rH P-T, Wireless room control device, pure white

4. 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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