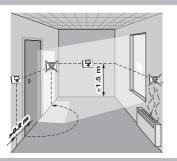


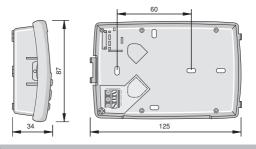
INSTALLATION MANUAL

Room thermostat



H







Read this manual attentively before starting up the unit. Do not throw it away. Keep it in your files for future reference.



Improper installation or attachment of equipment or accessories could result in electric shock, short-circuit, leaks, fire or other damage to the equipment. Be sure only to use accessories made by Daikin which are specifically designed for the use with the equipment and have them installed by a professional.

If unsure of installation procedures or use, always contact your dealer for advice and information.

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1. Introduction

The room thermostat EKRTW can be used to control floor heating-only applications and floor heating/cooling applications.

It is typically connected to the indoor unit. Refer to the "Typical application examples" in the Installation manual of the indoor unit.

- In case of floor heating-only applications the room thermostat can also be connected to the individual motorized valve of the floor heating loop.
- If a floor heating-only application is used in combination with fan coil units each fan coil unit should have its dedicated fan coil thermostat.

2. Installation of EKRTW

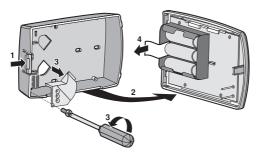
The EKRTW thermostat is wall-mounted, with supplied screws and plugs. Refer to figure 1.

Cabling towards the indoor system (field supply) should be foreseen in advance taking the suggestions for an ideal installation location into account. Refer to figure 2.



Before obtaining access to terminals, all power supply circuits must be interrupted.

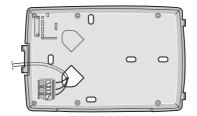
- 1 At the left of the thermostat, gently push the lid.
- 2 Remove the front cover by pulling it towards you.
- 3 Unscrew the screw of the cable holder in the bottom left corner of the back part of the thermostat and remove the transparent cable protection.
- 4 Remove the battery insulator.



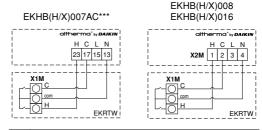
5 Drill holes in the wall taking the dimensions of the thermostat into account and insert the supplied plugs in the holes.

Refer to figure 3 (unit of measurement: mm).

6 Pass the indoor unit or motorized valve wiring through the back of the thermostat.



- 7 According your application, perform the wiring.
- 7a When connected to the indoor unit, wire the indoor unit and the thermostat as shown below.

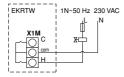


H Heating demand
C Cooling demand

For heating-only applications, wire 17-C or 2-C is not to be installed.

Use wire size 0.75~1.50 mm².

7b When connected to the motorized valve, wire the motorized valve and the thermostat as shown below (for heating-only applications).



The output relays (H and C are voltage-free contacts) can handle a maximum load of 5 A - 230 VAC.

8 Fasten the thermostat with the supplied screws.



Be careful not to pinch the wiring when fastening.

- 9 Put the transparent cable protection back into place and fix the cable protection with the screw.
- 10 Close the thermostat cover.
- 11 Remove the protective film from the LCD.

3. Setting up codes in the installer menu

You can set up codes, starting from the time and date menu (in advanced mode).

As a consequence of a customized configuration, it is not abnormal that some codes are no longer accessible.

- 2 Navigate to the date and clock setting menu (B) by pressing .
- 3 Press and keep it pressed while now pressing during 10 seconds.

is displayed next to \.



- 4 Press or to consult the current settings of the codes.
- 5 To modify codes, press , a or .
 The value is flashing when being modified.

To put a code back to its default value, press 🖶 and 🖃 at the same time.

7 Press or to save your selection.

You can exit this code menu by going to the "End" code and pressing $\boxed{\text{ove}}$.

5

EKRTW

3.1. Set-up for heating/cooling applications

For heating/cooling applications, set the following codes:

1st code	2nd code		Required setting
Sr	01	Cooling mode present?	YES

3.2. Overview of all codes

Following codes can be changed in the installer menu:

1st code	2nd code	Description	Default	Range	Step	
Reado	out cod	es				
Yr	01+1	Calibration of internal sensor. Actual temperature + offset are displayed. The symbol appears when the offset deviates from 0.	Offset = 0	Offset: -5°C~5°C	0.1°C	
Installation codes						
Sr	01	Cooling mode present?	no	YES/no		

1st	2nd						
code	code	Description	Default	Range	Step		
Temperature control codes							
Daikin advizes not to change below temperature control parameters. They are set for an optimal use of the floor cooling/heating application.							
бг	02	Use proportional band control?	YES	५६५ (proportional band)/no (hysteresis)	_		
	03	Hysteresis value	00.5	00.5~02.0	0.1°C		
	DY + *	Duration proportional band (heating).	020	0 10~060	1 min.		
	Ø + ®	Minimum "on" time (heat demand).	001	002~ 6r 0Y/2	1 min.		
	06 + 🔅	Minimum delay between 2 heating cycles.	003	00 l~ 6r 04/2	1 min.		
	N+₩	Duration proportional band (cooling).	020	0 10~060	1 min.		
	08+≉	Minimum "on" time (cool demand).	001	002~ 6r 07/2	1 min.		
	₩ + *	Minimum delay between 2 cooling cycles.	003	00 l~ 6r 07/2	1 min.		
	10	Value of proportional band.	020	0 1.0~04.0	0.1°C		
	11	Compensating value.	00.0	00.0~08.0	0.1°C		

1st code	2nd code (2	Description Upper setpoint limitation. Lower setpoint limitation. er codes	Default 037 004	Range 22.0~37.0 04.0~20.0	Step 1°C 1°C
Br	01	Enable cooling/heating link for the user-defined schedules ## and ##2? When enabled and a user-defined schedule is selected in the schedule timer setting menu: in heating mode, schedule ### will be active; in cooling mode, schedule ### will be active.	no	УE5/na	_

1st code	2nd code	Description	Default	Range	Step		
Misce	Miscellaneous codes						
Sr.	01	Daylight saving time implementation.	YES	YES/no	_		
	₩+*	Forced heating (installation check).	no	YES/no	_		
	8+≉	Forced cooling (installation check).	no	YES/no	_		
	IS + rESELRLL	Reset all settings back to factory configuration. Press @@ during 5 seconds. The complete LCD is shown to confirm all settings are reset.	_	_	_		

EKRTW

Room thermostat 4PW44896-1C

4. Technical characteristics

Temperature read out Steps of 0.1°C

Operating temperature 0°C~50°C

Setpoint temperature 4°C~37°C in steps of 0.5°C

range

Electrical protection Class II - IP30 (indoor use, polution

degree 2)

Feeding and autonomy 3 alkaline batteries AA.LR6 1.5 V

approximately 2 years (depending on

usage conditions)

Output relays Maximum load 5 A - 230 VAC

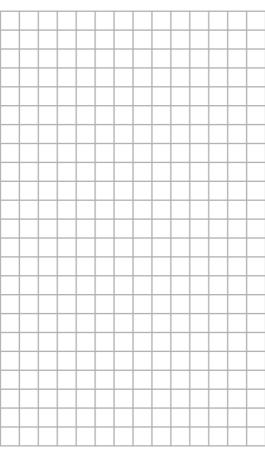
Immunity against voltage Category III (2.5 kV)

surges

Type of automatic action 1C

of the thermostat

NOTES







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