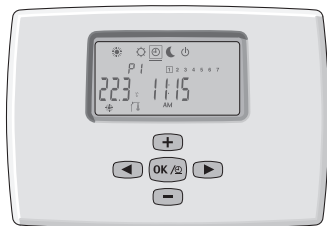




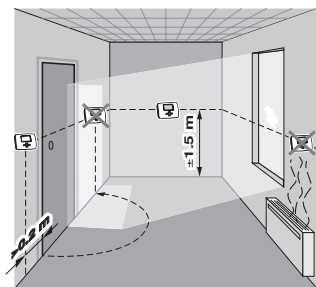
INSTALLATION MANUAL

Room thermostat

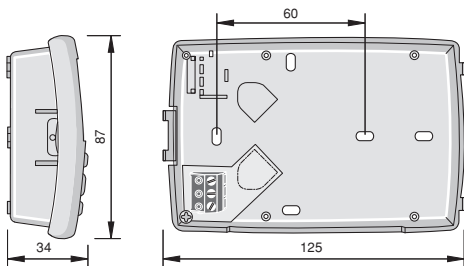
EKRTW



1



2



3



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.

Contents

1. Introduction	1
2. Installation of EKRTW	2
3. Setting up codes in the installer menu	5
4. Technical characteristics	9

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

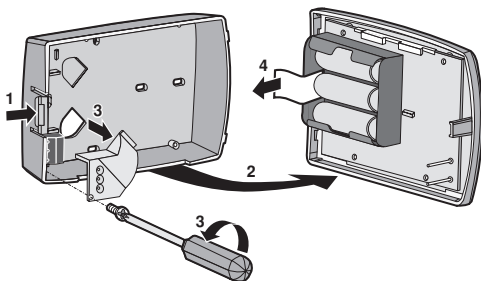
The EKRTW thermostat is wall-mounted, with supplied screws and plugs. Refer to [figure 1](#).

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](#).



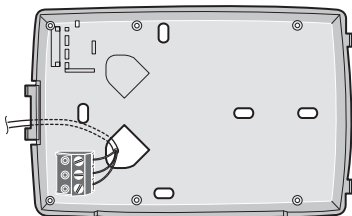
Before obtaining access to terminals, all power supply circuits must be interrupted.

- 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.



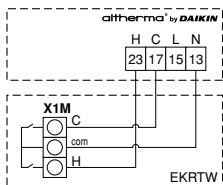
- 5 Drill holes in the wall taking the dimensions of the thermostat into account and insert the supplied plugs in the holes. Refer to [figure 3](#) (unit of measurement: mm).

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

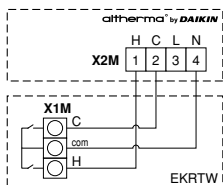


- 7 According your application, perform the wiring.
 7a When connected to the indoor unit, wire the indoor unit and the thermostat as shown below.

EKHB(H/X)007AC***



EKHB(H/X)008
 EKHB(H/X)016

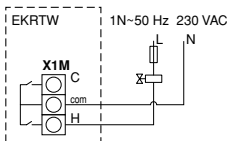


H	Heating demand
C	Cooling demand

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 100 mA - 230 VAC.



Make sure to protect the power supply with a fuse of 3 A.

Select the power cable in accordance with relevant local and national regulations.

A main switch or other means for disconnection, having a contact separation in all poles, must be incorporated in the fixed wiring in accordance with relevant local and national legislation.

- 8** Fasten the thermostat with the supplied screws.










Be careful not to pinch the wiring when fastening.

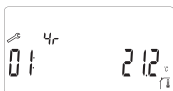
- 9** Put the transparent cable protection back into place and fix the cable protection with the screw.
- 10** Close the thermostat cover.
- 11** Remove the protective film from the LCD.












3. Setting up codes in the installer menu

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

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

- 1 Activate the advanced mode by pressing  during 5 seconds in OFF mode ().
- 2 Navigate to the date and clock setting menu () by pressing .
- 3 Press  and keep it pressed while now pressing  during 10 seconds.
 is displayed next to 4r.



- 4 Press  or  to consult the current settings of the codes.
- 5 To modify codes, press ,  or .
- The value is flashing when being modified.
- 6 Press  or  to increase or decrease the code value by 1 step.
To put a code back to its default value, press  and  at the same time.
- 7 Press  to save your selection.
You can exit this code menu by going to the "End" code and pressing .


3.1. Set-up for heating/cooling applications

For heating/cooling applications, set the following codes:

1st code	2nd code	Description	Required setting
5r	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
Readout codes					
4r	01 + 10	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					
5r	01	Cooling mode present?	no	YES/no	—

1st code	2nd code	Description	Default	Range	Step
Temperature control codes					
Daikin advises not to change below temperature control parameters. They are set for an optimal use of the floor cooling/heating application.					
6r	02	Use proportional band control?	4E5	4E5 (proportional band)/no (hysteresis)	—
	03	Hysteresis value	005	005~020	0.1°C
	04 + ☀	Duration proportional band (heating).	020	010~060	1 min.
	05 + ☀	Minimum "on" time (heat demand).	007	002~ 6r 04/2	1 min.
	06 + ☀	Minimum delay between 2 heating cycles.	003	001~ 6r 04/2	1 min.
	07 + ⚙	Duration proportional band (cooling).	020	010~060	1 min.
	08 + ⚙	Minimum "on" time (cool demand).	007	002~ 6r 07/2	1 min.
	09 + ⚙	Minimum delay between 2 cooling cycles.	003	001~ 6r 07/2	1 min.
	10	Value of proportional band.	020	010~040	0.1°C
	11	Compensating value.	000	000~080	0.1°C
	12	Upper setpoint limitation.	037	220~370	1°C
	13	Lower setpoint limitation.	004	040~200	1°C

1st code	2nd code	Description	Default	Range	Step
Schedule timer codes					
0r	01	Enable cooling/heating link for the user-defined schedules 01 and 02? When enabled and a user-defined schedule is selected in the schedule timer setting menu: in heating mode, schedule 01 will be active; in cooling mode, schedule 02 will be active.	no	YES/no	—

1st code	2nd code	Description	Default	Range	Step
Miscellaneous codes					
9r	01	Daylight saving time implementation.	YES	YES/no	—
	02 + ☀	Forced heating (installation check).	no	YES/no	—
	03 + ❄	Forced cooling (installation check).	no	YES/no	—
	15 + RESET ALL	Reset all settings back to factory configuration. Press  during 5 seconds. The complete LCD is shown to confirm all settings are reset.	—	—	—

4. Technical characteristics

Temperature read out	Steps of 0.1°C
Operating temperature	0°C~50°C
Setpoint temperature range	4°C~37°C in steps of 0.5°C
Electrical protection	Class II - IP30 (indoor use, pollution degree 2)
Feeding and autonomy	3 alkaline batteries AA.LR6 1.5 V approximately 2 years (depending on usage conditions)
Output relays	Maximum load 100 mA - 230 VAC



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