



UFH-THERM-RD

USER GUIDE <i>RF Digital Thermostat</i>	GB 4-15
GUIDE UTILISATEUR <i>Thermostat Digital RF</i>	F 16-27
HANDLEIDING <i>Digitale thermostaat RF</i>	NL 27-38
BEDIENUNGSANLEITUNG <i>Funk LCD Raumthermostat</i>	D xx-xx
MANUALE D'USO <i>XXXXXXXXXXXXXX</i>	I xx-xx

PRESENTATION

- Radio Frequency "RF" thermostat (433,92Mhz) specially designed for water floor heating & cooling managed by actuators.

- Possibility to regulate on:

- Air sensor only
- Floor sensor only
- Air & Floor combined with floor sensor use as limiter.

KEYBOARD



Navigation key left and minus key (-◀)



Validation key and mode key (OK)



Navigation key right and plus key (▶+)

DISPLAY



- 1: Operating mode menu (active mode is framed).
- 2: Heating demand indication.
- 3: Cooling demand indication.
- 4: Batteries weak.
- 5: If lit-up "6" displays the measured temperature.
- 6: Measured temperature or setting temperature.
- 7: °C or °F indicator.
- 8: Moving bars when transmitting a radio signal
Or Title for installation Parameters (rF,
J0,CLr...)

MODE DESCRIPTION

Use the **(OK)** key to change the mode in the Operating mode menu. (The active mode is framed)



OFF mode:

Use this mode if the zone managed by the thermostat needs to be turned OFF.

The display will be turned off and all parameters are saved. (Careful in this mode your installation can freeze).



COMFORT operating mode:

The comfort temperature will be followed all the time. By pressing keys **(-◀)** or **(▶+)** the comfort temperature starts to blink and can be adjusted.

The measured temperature  reappears after a few seconds.



REDUCED operating mode:

The comfort temperature will be followed all the time. By pressing (-◀) or (▶+) keys the comfort temperature starts to blink and can be adjusted. The measured temperature (OK) reappears after a few seconds.

TECHNICAL CHARACTERISTICS

Measured temperature precision	0.1°C
Operating temperature	0°C - 50°C
Setting temperature range	5°C – 37°C by 0.5°C step
Regulation characteristics	Proportional Integral regulation (PWM) (adjustable see installation menu)
Electrical Protection	Class II - IP30
Power Supply	2 x 3V (CR2430)
Battery operated life	~ 2 years
Radio frequency	433.92 MHz, <10mW.
Certifications	EN 300220-1, -2 EN 301489-1, -3
Soft version	V 3.xx

INSTALLATION PARAMETERS MENU

Press the **(OK)** key during 5 seconds, then use **(-◀)** or **(▶+)** to select the installation parameter to be adjusted.

Press **(OK)** to toggle the parameter setting or edit the value.

If the value starts to blink you can use **(-◀)** or **(▶+)** keys to adjust this value.

Press **(-◀)** or **(▶+)** keys at the same to reset this value to the factory default value. Once you have adjusted the value press **(OK)** to validate this parameter value.

PARAMETERS

Default value & other possibilities

rF: Radio configuration mode (see the corresponding section).

Press **(OK)** on this parameter to exit the parameters menu and come back to the main display.

JO: Type of degrees displayed

°C Celsius

°F Fahrenheit

J1: Operating mode:

Hot for heating application

CLd for cooling application

CY: Proportional Integral regulation time cycle value in minutes:

15 slow systems adapted to the regulation of actuators.

Bp: Value of the proportional band in °C:

2.0 °C Adjustable 1°C to + 7°C

Increase the value if the temperature in the room is unstable.

J5: Anti-lock-braking function of the pump when the pump hasn't worked on a particular day, start it up for one minute each day:

Pmp Function activated

no Function deactivated

J6: Selection of the sensor used for the regulation:

Air: Room sensor only or room sensor with floor limitation if the external sensor is connected.

Flr: External sensor only without limitations.

J7: Selection of regulation type:

rEg: Proportional band (PWM)

hys: Static differential of 0.3°K

Cp: Value of the compensation in °C:

2.0°C Adjustable 1°C to 8°C

* This value must be adjusted by a specialist.

A0: Calibration of the internal sensor

(The calibration must be done after 12Hours working with the same setting temperature)
- To check the temperature in the room, put a thermometer at 1.5M distance to the floor in the concerned room and wait 1 hour to be sure that the thermometer show the correct temperature. Then you can enter the value saw on the thermometer with (-◀) or (▶+) keys.

F0: Calibration of the external sensor.

The calibration must be done same as described above if the external sensor is connected and used like an external ambiance sensor.

If the external sensor is used as floor sensor, the thermometer should be put on the floor.

FL: Lower limitation of the floor temperature. Only effective if the external sensor is connected and selected:

5°C Adjustable From **5°C** to „**FH**“

FH: Upper limitation of the floor temperature. Only effective if the external sensor is connected and selected:

28°C Adjustable From „**F1**“ to **37°C**

C1r: All parameters are reloaded with default setting values.

„RF“ CONFIGURATION

- To assign (*) the RF thermostat with the UFH-ZONEHC-R or the UFH-ZONE-R you must put them in „**RF init**“ mode.

(Please refer to the receiver leaflet for this).

- After you have just pressed **(OK)** key during 5 sec, then the display „**RF**“ must be appears. The thermostat sends its configuration address by radio signal.

- Check the good reception on the UFH receiver. When the receiver is configured, press the **(OK)** key to return to the user menu.

* (In this mode, the thermostat should be near the receiver)

