

WFHT LCD 230V



GB/ switch on and switch off the thermostat
 F/ Démarrage et arrêt du thermostat
 NL/ Zet de thermostaat aan of uit.
 D/ Schiebescaltler EIN / AUS
 I/ Avvio e arresto termostato
 RU/ Включите и выключите термостат

KEYBOARD/CLAVIER/TOETSSEN/TASTEN/COMANDI/КНОПКИ



GB/ Navigation key left and minus key (-<)

 F/ Navigation touche gauche et touche - (-<)

 NL/ Toets links en min (-<)

 D/ Navigieren nach links und Minus-Taste (-<)

 I/ Tasto di navigazione destro e tasto - (-<)

 RU/ Перемещение влево и минус (-<)



GB/ Validation key and mode key (OK)

 F/ Touche de validation et touche mode (OK)

 NL/ OK toets en toets mode (OK)

 D/ Taste für Bestätigungen und Betriebsart (OK)

 I/ Tasto di convalida e tasto di modo (OK)

 RU/ Подтверждение установки и просмотр режима (OK)



GB/ Navigation key right and plus key (>+)

 F/ Navigation touche droite et touche + (>+)

 NL/ Toets rechts en plus (>+)

 D/ Navigieren nach rechts und Plus-Taste (>+)

 I/ Tasto di navigazione destro e tasto + (>+)

 RU/ Перемещение вправо и плюс (>+)

DISPLAY/AFFICHEUR/DISPLAY/ANZEIGE/DISPLAY/ДИСПЛЕЙ



1	<ul style="list-style-type: none"> - Operating mode menu (active mode is framed). - Mode de fonctionnement (mode activé encadré) - Functie mode (actieve mode wordt omkaderd) - Menü Betriebsart (aktive Betriebsart ist eingerahmt) - Modo di funzionamento (il modo attivato è inquadrate) - Пользовательское меню (активный режим работы в рамке) 	5	<ul style="list-style-type: none"> - Measured temperature or set temperature - Montre la température ambiante ou la consigne - Gemeten temperatuur of ingestelde temperatuur. - Zeigt die gemessene bzw. die Solltemperatur an. - Visualizza la temperatura ambiente o quella impostata - Индикация комнатной или установленной температуры
2	<ul style="list-style-type: none"> - Heating demand indication. - Indicateur de chauffe - Weergave brander in werking. - Heizanzeige (Wärmebedarf). - Indicatore di riscaldamento - Нагрев помещения 	6	<ul style="list-style-type: none"> - °C or °F indicator - Température en °C ou °F - Temperatuursaanduiding in °C of °F. - Temperaturanzeige in °C oder °F - Temperatura in °C o °F - ...Индикация температуры в °C или °
3	<ul style="list-style-type: none"> - Cooling demand indication. - Indicateur de refroidissement - Weergave koelsysteem in werking - Kühlanzeige (Kühlbedarf). - Indicatore di raffreddamento - Охлаждение помещения 		
4	<ul style="list-style-type: none"> - If symbol is displayed the measured temperature is shown (position 5) - Si le symbole est présent, la température ambiante est affichée en (5) - Indien opgelicht toont 5 de omgevingstemperatuur. - Wenn dieses Symbol eingeblendet ist, wird die gemessene Temperatur angezeigt (Position 5). - Se il simbolo è presente, la temperatura ambiente è visualizzata in (5) - При отображении данного символа на дисплее показывается комнатная температура (5). 	7	<ul style="list-style-type: none"> - Title for installation parameters (JO, CLR...) - Titre des paramètres d'installation (JO, CLR...) - Omschrijving van de installatie parameter. (JO, CLR...) - Bezeichnung der Anlagenparameter (JO, CLR usw.) - Titolo dei parametri di installazione (JO, CLR...) - Обозначение параметра в служебном меню (JO, CLR...)

GB

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PRESENTATION

- Electronic thermostat with LCD display specially designed for water floor heating systems controlled by actuators.
- External pilot wire for night reduction.
- Three functioning modes: Comfort / Reduction / Clock mode
- Possibility to regulate either the floor or room temperature, or combined. (In this case, the floor sensor is used as temperature limiter)
- Silent (Triac output), to be connected directly to actuators (see connecting drawing on the installation sheet) or to our connecting box system. (In this case please refer to the connecting box datasheet.)

START UP

Use the switch on the right side of the thermostat to power on or power off the heating.
 Be careful! In this mode, your installation can freeze.
 The setting temperatures are kept in memory indefinitely.

MODE DESCRIPTION

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



COMFORT operating mode:

Force comfort temperature operation indefinitely. By pressing (-<) or (>+) keys, the comfort temperature starts to blink and can be adjusted. The measured (OK) temperature reappears after a few seconds.



REDUCED operating mode:

Force reduced temperature operation indefinitely. By pressing (-<) or (>+) keys the comfort temperature starts to blink and can be adjusted. The measured temperature (OK) reappears after a few seconds.



External PILOT WIRE mode:

The thermostat will follow the working mode received on the PILOT WIRE line (A/B).



Blinks to indicate the Comfort mode (The Comfort setting temperature will be followed)



Blinks to indicate the Reduced mode (The Reduced setting temperature will be followed)

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. When you have finished, use (-<) or (>+) keys to go to "End" display and then press (OK) key to exit installation parameter menu.

PARAMETERS DESCRIPTION

Default value & other possibilities	
JO: Type of degrees displayed	°C Celsius °F Fahrenheit
J1: Regulation mode:	Hot: for heating application. CLD: for cooling application.
J4: Type of actuator managed.	NO: For Normally closed NO: For Normally open
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 limitation

A0: Calibration of the internal sensor
 The calibration must be done after 1 day working with the same setting temperature in accordance with the following description:
 Put a thermometer in the room at 1.5M distance from the floor (like the thermostat) and check the real temperature in the room after 1 hour. When you enter on the calibration parameter "no" is displayed to indicate no calibration has made.

To enter the value read on the thermometer press on the (OK) key, the actual value "xx.x" must be blink, now enter the real value with the keys (-<) or (>+) and valid your adjustment by pressing the (OK).

The message "Yes" should be display, the value will be stored in the internal memory. If you need to remake the calibration, enter once again on the installation menu, and press on the (OK) key when the message "Yes" is displayed, then the actual value "xx.x" should be blink.
 The old value will be erased if you enter a new value. You could also erase the calibration by pressing (-<) (>+) when the value blinks, the message "no" must be display.

* Pay attention:

Only the heating element managed by the thermostat must be run during the complete step of the calibration.

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 ambient 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 „FB“

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

28°C Adjustable From „F1“ to 37°C

J7: Selection of regulation type:

rEg: Proportional band (PWM)

hys: Static differential of 0.3°C

cy: Proportional Integral regulation time cycle:

15 : minutes

On: Minimal starting time in minutes

02: Adjustable From "0" to T cy/2

of: Minimal resting time between 2 heating cycles in minutes

02: Adjustable From "0" to T cy/2

Bp: Proportional Integral regulation band

amplitude value in degrees °C or °F:

2.0 °C / 3.6°F

cp: Value of the compensation in °C:

0.0°C Adjustable 1°C to 8°C

* This value must be adjusted by a specialist.

clr: All parameters are reloaded with default setting values.

End: Press (OK) key to exit installation parameter menu and return to normal operation.

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	230 VAC +/- 10%
Output	TRIAC output 230 VAC, 75Wmax (4 actuators WATTS 22C type)
External Floor sensor	NTC-10K
CE Directives	Your product has been designed in conformity with the European Directives
	LVD 2006/95/EC EMC 2004/108/EC RoHS 2011/65/EU