FAKRO

GB

ORIGINAL USER MANUAL

Thermostat Z-Wave

ZRT

QUICK START	3
THERMOSTAT MENU DESCRIPTION	4
ADD ZRT TO NETWORK	5
COPY GROUP	6
THERMOSTAT RESET	7
TEMPERATURE AND HUMIDITY VALUE	7
SET TEMPERATURE	8
SET HUMIDITY	10
ADVANCED INFORMATION	12
WARRANTY	13

NC 8BF-GB_ZRT_20.12.07_FAKRO_KB2374 mobile

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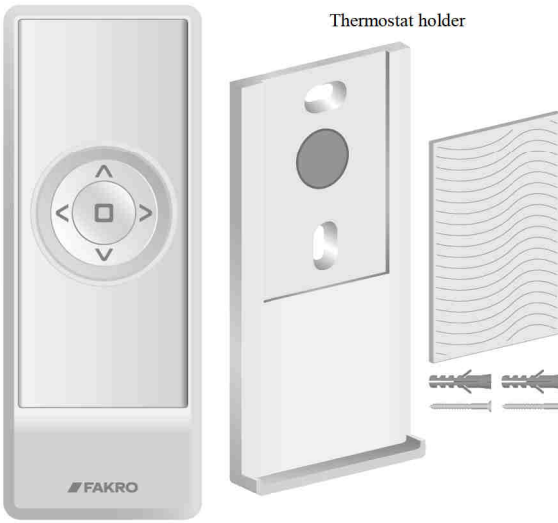
Dear Sir/Madam! Thank you for purchasing the product from FAKRO. We hope it will meet your expectations. To ensure appropriate functioning of the product, please peruse this User Manual.

Thermostat (sensor)

Thermostat holder



Thermostat includes 2x1.5V AAA (LR03) batteries.

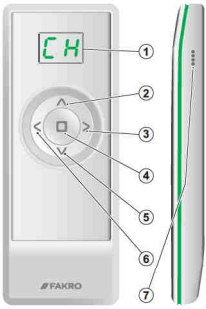
The Z-Wave ZRT thermostat is a sensor designed for automatic control of Z-Wave devices based on room temperature and humidity measurement. The ZRT can control up to 5 devices in 4 groups.

Note! Use only alkaline batteries for the replacement.

Note! Risk of explosion if batteries are replaced by batteries of an incorrect type. Dispose of worn-out batteries according to the instructions.

TECHNICAL SPECIFICATION	
Power supply: 2x1,5V AAA (LR03) **Reach:** Up to 20 m in a building **Working temperature:** 5 – 85°C **Dimensions:** 125/48/16 mm	**Radio protocol:** Z-Wave **Frequency:** EU – 868,4 MHz AS/NZ – 921,4 MHz US/Canada – 908,4 MHz RU – 869 MHz (depending on version)

Thermostat STRUCTURE



① Display

② Navigation button, control – UP

③ Navigation button – RIGHT

④ Accept button – STOP

⑤ Navigation button, control – DOWN

⑥ Navigation button – LEFT

⑦ Ventilation holes

QUICK START

THERMOSTAT PREPARATION

1. Open the battery cover by sliding it down.

2. Remove the foil.

3. Close the battery cover by sliding it up until the catches click.

THERMOSTAT PROGRAMMING

1. Add to network - page 5.

2. Copy group - page 6.

3. Low and high temperature setting - page 8.

4. Low and high humidity setting - page 10.

THERMOSTAT MENU DESCRIPTION

The ZRT thermostat comes with a segment display situated under the front wall of the housing. Thanks to this, the user can easily find requested function. Shortcuts displayed on the screen are described below.

DISPLAY SHORTCUTS

HOLDING STOP+UP BUTTONS FOR 3 SECONDS

GROUP 1 & 2 - temperature

- CH (celsius high) – high temperature.

- CL (celsius low) – low temperature.

- PH (position high) – for high temperature (CH).

- PL (position low) – for low temperature (CL).

- dP (default parameters) – restoring default parameters

- CS (continous sending) – repeating commands every 1 minute if ON, if OFF then only when changing.

 - Go to previous menu.

GROUP 3 & 4 - humidity

 - HH – humidity high

- HL – humidity low

 - PH (position high) – for high humidity (HH).

- PL (position low) – for low humidity (HL)

 - dP (default parameters) – restoring default parameters

 - CS (continous sending) – repeating commands every 1 minute if ON, if OFF then only when changing.

 - Go to previous menu.

HOLDING STOP+DOWN BUTTONS FOR 3 SECONDS

- NODE INFO / SENSOR INFO - This function allows to add or remove the thermostat from the Z-Wave network.

- DEFAULT / THERMOSTAT RESET - This function removes all thermostat settings as well as device and network information from it.

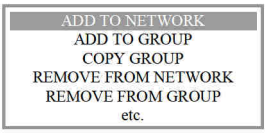
 - LISTENING MODE - This function enables remote configuration of the thermostat using another controller.

- Go to previous menu.

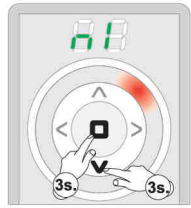
ADD ZRT TO NETWORK

The ZRT thermostat is designed to work only with primary controllers.

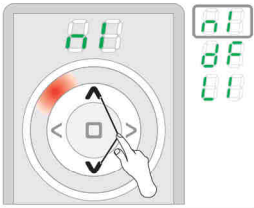
This function allows to assign the ZRT thermostat to the existing network as the Z-Wave sensor. Add the ZRT to the primary controller in the existing Z-Wave network.



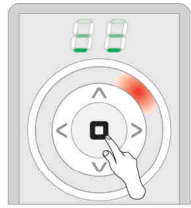
Run selected function on the primary Z-Wave controller.



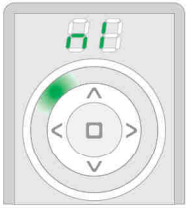
Hold simultaneously STOP and DOWN buttons until you enter configuration mode.



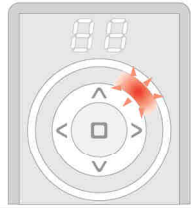
Using UP/ DOWN buttons select marked position.



Accept using STOP button.



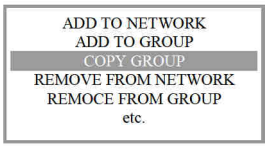
Procedure performed correctly. Green backlight is on for a while and then goes off.



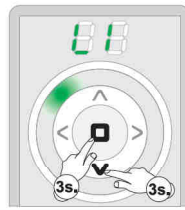
Error. Red backlight flashes 3 times. Repeat procedure.

COPY GROUP

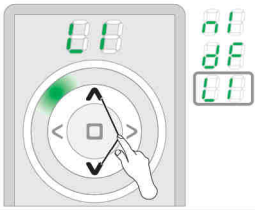
This function allows to send information about devices from the primary to the secondary remote control.



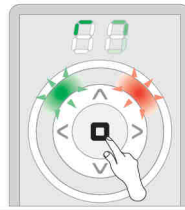
Run COPY GROUP function on the primary Z-Wave controller. Select a target group between 1 and 4:
- group 1 & 2 – TEMPERATURE,
- group 3 & 4 – HUMIDITY.



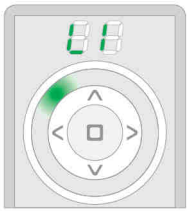
Hold simultaneously STOP and DOWN buttons until you enter configuration mode.



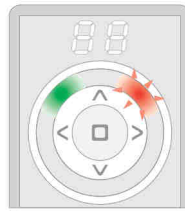
Using UP/ DOWN buttons select marked position.



Accept using STOP button.



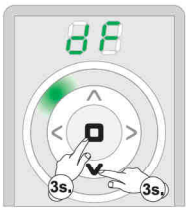
Procedure performed correctly. Green backlight is on for a while and then goes off.



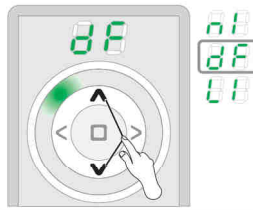
Error. Red backlight flashes 3 times. Repeat procedure.

THERMOSTAT RESET

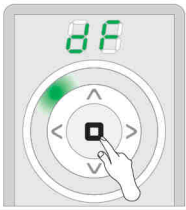
In case of failure, reset the sensor and start reconfiguration.



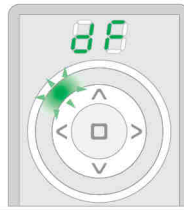
Hold simultaneously UP and STOP buttons until you enter configuration mode.



Using UP/ DOWN buttons select marked position.



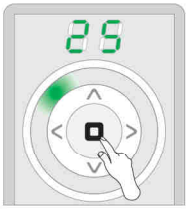
Accept using STOP button.



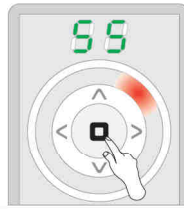
Procedure performed correctly. Green backligt flashes once.

TEMPERATURE AND HUMIDITY VALUE

The current temperature and humidity can be checked by pressing ACCEPT button sequentially.



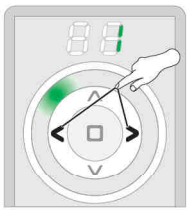
Press ACCEPT button. With the GREEN LED, the thermostat indicates TEMPERATURE.



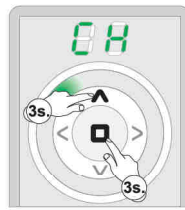
Press ACCEPT button. With the RED LED, the thermostat indicates HUMIDITY.

SET TEMPERATURE

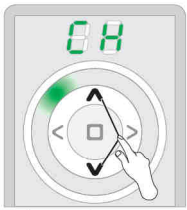
Set the temperature range and the position you want the device to be in after performing the action.



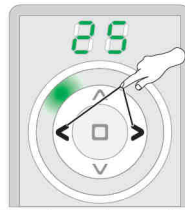
Using LEFT / RIGHT buttons select group 1 or 2.



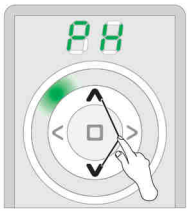
Hold simultaneously STOP and UP buttons until you enter configuration mode.



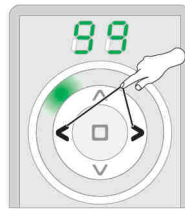
Using UP/ DOWN buttons select marked position.



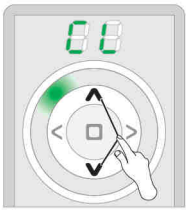
Using LEFT/RIGHT buttons select requested high temperature value, eg 25°C.



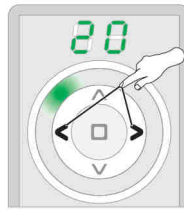
Using UP/ DOWN buttons select marked position.



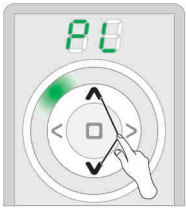
Using LEFT/RIGHT buttons select requested device position value for high temperature (CH).



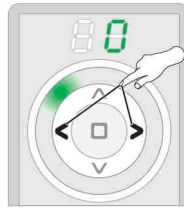
Using UP/ DOWN buttons select marked position.



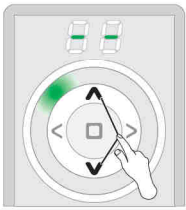
Using LEFT/RIGHT buttons select requested low temperature value, eg 20°C.



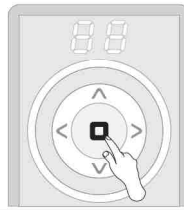
Using UP/ DOWN buttons select marked position.



Using LEFT/RIGHT buttons select requested device position value for low temperature (CL).



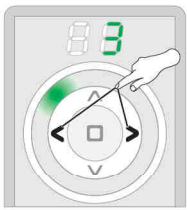
Using UP/DOWN buttons select marked position - exit from the temperature settings menu.



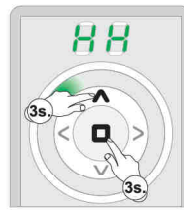
Accept using STOP button.

SET HUMIDITY

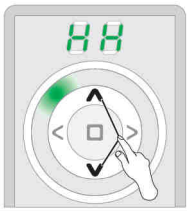
Set the humidity range and the position you want the device to be in after performing the action.



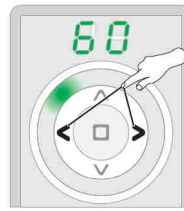
Using LEFT / RIGHT buttons select group 3 or 4.



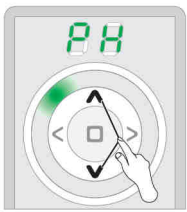
Hold simultaneously STOP and UP buttons until you enter configuration mode.



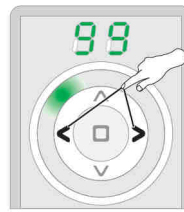
Using UP/ DOWN buttons select marked position.



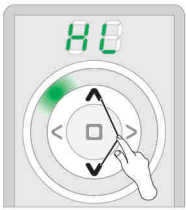
Using LEFT/RIGHT buttons select requested high humidity value, eg 60%.



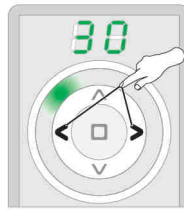
Using UP/ DOWN buttons select marked position.



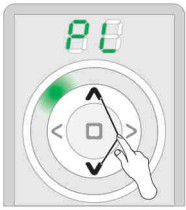
Using LEFT/RIGHT buttons select requested device position value for high humidity (PH).



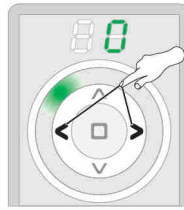
Using UP/ DOWN buttons select marked position.



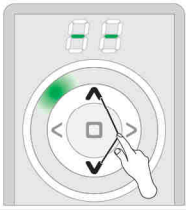
Using LEFT/RIGHT buttons select requested low humidity value, eg 30%.



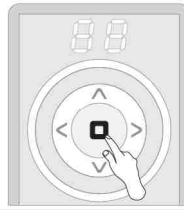
Using UP/ DOWN buttons select marked position.



Using LEFT/RIGHT buttons select requested device position value for low humidity (PL).



Using UP/DOWN buttons select marked position - exit from the humidity settings menu.



Accept using STOP button.

ADVANCED INFORMATION

WORKING PARAMETERS

PARAMETER NUMBER			
DISPLAY		Range	DESCRIPTION
CL	22	10 – 34	Low temperature - association group 2
CH	23	11 – 35	High temperature - association group 2
PL	24	0 – 99	Low position - Low temperature - association group 2
PH	25	0 – 99	High position - High temperature - association group 2
CL	26	10 – 34	Low temperature - association group 3
CH	27	11 – 35	High temperature - association group 3
PL	28	0 – 99	Low position - Low temperature - association group 3
PH	29	0 – 99	High position - High temperature - association group 3
HL	30	0 – 98	Low humidity - association group 4
HH	31	1 – 99	High humidity - association group 4
PL	32	0 – 99	Low position - Low humidity - association group 4
PH	33	0 – 99	High position - High humidity - association group 4
HL	34	0 – 98	Low humidity - association group 5
HH	35	1 – 99	High humidity - association group 5
PL	36	0 – 99	Low position - Low humidity - association group 5
PH	37	0 – 99	High position - High humidity - association group 5
CS	38	1 – on 2 – off	Time after which report is sent Continous sending (every 1 minute)

Association groups

1	Life Line group
2	Group associated with parameters that define the CH and CL temperature values. Group also associated with the PH and PL position values.
3	Group associated with parameters that define the CH and CL temperature values. Group also associated with the PH and PL position values.
4	Group associated with parameters that define the HH and HL humidity values. Group also associated with the PH and PL position values.
5	Group associated with parameters that define the HH and HL humidity values. Group also associated with the PH and PL position values.

WARRANTY

The manufacturer guarantees correct device functioning. It also undertakes to repair or replace faulty device if damage is a result of material or structural faults. The warranty period is 24 months from the date of purchase, fulfilling the following conditions:
- Installation has been performed as per manufacturer recommendations.
- Seals remain intact and no authorised structural changes have been made.
- The device has been used in accordance with its intended use as per user manual.
- Damage is not a result of improperly made electrical system or atmospheric phenomena.
- The manufacturer is not liable for damage which occurred as a result of improper use or mechanical damage.

In case of failure, the device must be submitted for repair with a Warranty Card. Defects revealed within the warranty period will be removed free of charge no longer than 14 days after accepting the product for repair. Warranty and post-warranty repairs are performed by the manufacturer i.e. FAKRO PP. Sp. z o.o.

Fakro Sp. z o.o.
ul. Węgierska 144A, 33-300 Nowy Sącz, PL
tel. +48 18 4440444, fax +48 18 4440333
www.fakro.com

Quality certificate:

Device _____

Model _____

Serial number _____

Seller _____

Address _____

Purchase date _____

Invoice No. _____

Signature (stamp) of person installing a device