Qubino

The INNOVATIVE and SMALLEST

Flush Heat & Cool Thermostat

OWAVE

PLUS

ORDERING CODE	Z-WAVE FREQUENCY
ZMNHKD1	868,4 MHz
ZMNHKD2	921,4 MHz
ZMNHKD3	908,4 MHz
ZMNHKD4	869,0 MHz
ZMNHKD5	916,0 MHz
ZMNHKD8	865.2 MHz

This Z-Wave module is used to regulate temperature in heating and cooling mode. Module can be controlled either through Z-Wave network or through the wall switch. The module is designed to be mounted inside a "flush mounting box" and is hidden behind a traditional wall switch. Module measures power consumption of connected device. It is designed to act as repeater in order to improve range and stability of Z-wave network.

Supported switches

Module supports mono-stable switches (push button) and bi-stable switches. The module is factory set to operate with bi-stable switches. Installation

- To prevent electrical shock and/or equipment damage, disconnect electrical power at the main fuse or circuit breaker before installation or any servicing.
- Make sure, that no voltage is present in the installation. · Prevent the disconnecting device from being switched on
- 12 accidentally Connect the module according to electrical diagram. 11
- Locate the antenna far from metal elements (as far as TS
- possible) · Do not shorten the antenna.

Danger of electrocution!

- · Module installation requires a great degree of skill and may be performed only by a qualified and licensed electrician.
- Even when the module is turned off, voltage may be present on its terminals.

Note!

Do not connect the module to loads exceeding recommended values. Connect the module only in accordance to the below diagrams. Improper connections may be dangerous.

Electrical installation must be protected by directly associated over current protection fuse 4A. gG or Time lag T, rated breaking capacity 1500A (ESKA 522.723) must be used according to wiring diagram to achieve appropriate overload protection of the module. Package contents:

 Flush Heat & Cool Thermostat + Temperature sensor Electrical diagram 230VAC



Notes for the diagram: Ν Neutral lead

1 l ive lead

12

- Output for Heating valve Q1 .
- Q2 🛦 Output for Cooling valve
 - Input for switch /push button or sensor*
- 11 Input for switch /push button or sensor*
- TS Terminal for digital temperature sensor (only for Flush Heat & Cool thermostat module compatible digital temperature sensor).

*For details please check parameters 11 and 12 Electrical diagram 24VDC



Notes for the diagram: + VDC

- Ν 1 - VDC
- Q1 🛦
 - Output for Heating valve
- Q2 🛦 Output for Cooling valve
 - Input for switch /push button or sensor*
- Input for switch /push button or sensor*
- Terminal for digital temperature sensor (only for Flush Heat & Cool thermostat module compatible digital temperature sensor). *For details please check parameters 11 and 12
 - - s Service button (used to add or remove module from the Z-Wave network in case of 24 V SELV power supply).

WARNING: Service button S must NOT be used when module is connected to 110-230V power supply.

Durability of the device depends on applied load. For resistive load (light bulbs, etc.) and 4A current consumption of each individual electrical device, the durability exceeds 70.000 switches of each individual electrical device.

Module Inclusion (Adding to Z-wave network)

- · Connect module to power supply (with temperature sensor connected).
- auto-inclusion (works for about 5 seconds after connected to power supply) or
- press push button I1 three times within 3s (3 times change switch state within 3 seconds) or
- press service button S (only applicable for 24 V SELV supply voltage) for more than 2 second. NOTE1: For auto-inclusion procedure, first set main Heating valve Cooling valve controller into inclusion mode and then connect module to
 - power supply. NOTE2: When connecting temperature sensor to module
 - that has already been included, you have to exclude module first. Switch off power supply, connect the sensor and re-include the module.

Module Exclusion/Reset (Removing from Z- Available config. parameters (data type is 2 Byte DEC): Wave network)

· Connect module to power supply

- bring module within maximum 1 meter (3 feet) of the 1 ALL ON is not active ALL OFF active main controller. 2 - ALL ON active ALL OFF is not active
- enable add/remove mode on main controller.
- switch state within 3 seconds) in the first 60 seconds main controller or by other controller belonging to the after the module is connected to the power supply or
- press service button S (only applicable for 24 V SELV Parameter no. 11- I1 Functionality selection supply voltage) for more than 6 second.

By this function all parameters of the module are set to • default value 1 default values and own ID is deleted. If push button I1 is pressed three times within 3s (or service module is excluded, but configuration parameters are not

set to default values NOTE: If the module is included with parameters 100 or • 2 - input 11 influences on cooling and heating valves cooling off. Available configuration parameters (data type is 101 with value different to default and module reset is done, wait at least 30s before next inclusion.

Association

Association enables Flush Heat & Cool thermostat module to transfer commands inside Z-Wave network directly (without main controller) to other Z-Wave modules. Associated Groups:

Group 1: Lifeline group (reserved for communication with the main controller), 1 node allowed.

Group 2: basic on/off (triggered at change of the output Q1 or Q2 state and reflecting its state) up to 16 nodes. Group 3: SENSOR MULTILEVEL GET (triggered once per

minute if parameter 121 is not 0) up to 16 nodes. Group 4: basic on/off (triggered by Too high temperature limit, it send 0x00, triggered by To Low temperature, it send 0xFF) up to 16 nodes.

Group 5: THERMOSTAT_SETPOINT_GET (triggered once . 2000 - Input I2 influences on the cooling valve according per minute if parameter 121 is not 0) up to 16 nodes. Group 6: basic on/off (trigged by change of I1 if window sensor functionality is selected by parameter no. 11) up to 16 nodes

Group 7: basic on/off (trigged by change of I2 if condense sensor functionality is selected by parameter no. 12) up to 16 nodes

Group 9: sensor multilevel report (trigged by change of temperature) up to 16 nodes.

Configuration parameters

Parameter no. 1 - Input I1 switch type

Available config. parameters (data type is 1 Byte DEC): default value 1

- 0 mono-stable switch type (push button)
- 1 bi-stable switch type

Parameter no. 2 - Input I2 switch type See parameter 1 (valid for I2 instead of I1)

Parameter no. 4 - Input 1 contact type Available config. parameters (data type is 1 Byte DEC):

- default value 0
- 0 NO (normally open) input type
- 1 NC (normally close) input type

• 1 - 32767 = 1 second - 32767 seconds. Reporting Parameter no. 65 - Output Switch selection Q2 NOTE: This parameter has influence only when parameter no. 11 is set to the value "2". After setting this parameter. switch the window sensor once, so that the module could determine the input state. Parameter no. 43 - Hysteresis Heating On

Parameter no. 5 - Input 2 contact type

See parameter 4 (valid for I2 instead of I1) NOTE: This parameter has influence only when parameter

- no. 12 is set to the value "2000". After setting this 2 Byte DEC): parameter, switch the condense sensor once, so that the • default value 1010 (-1.0 °C)
- module could determine the input state. Parameter no. 10 - Activate / deactivate functions ALL
- ON/ALL OFF
- default value 255
- · 255 ALL ON active. ALL OFF active.
- 0 ALL ON is not active ALL OFF is not active

Flush Heat & Cool thermostat module responds to • press push button I1 five times within 3s (5 times change commands ALL ON / ALL OFF that may be sent by the system

- Available config. parameters (data type is 2 Byte DEC):
- default value 5 (+0.5 °C) • 32767 - input I1 doesn't influence on the Heat & Cool • 0 - 255 = 0.0°C to 25.5 °C nrocess 1001 - 1255 = -0,1°C to - 25,5 °C

default value 2 (+0.2 °C)

2 Byte DEC)

• 0 - 255 = 0.0°C to 25.5 °C

• 0 - 255 = 0,0°C to 25,5 °C

Parameter no. 47 - Antifreeze

• 1001 - 1255 = - 0,1°C to - 25,5 °C

1 - 1000 = 0.1°C - 100.0°C, step is 0.1°C.

NOTE: Too low temperature limit is set by entered value. In

case the set value is out of this range, module is changing

automatically set value to default value. It is used with

Parameter no. 61 - Too high temperature limit

Parameter no. 64 - Output Switch selection Q1

Available config. parameters (data type is 2 Byte DEC):

default value 700 (too high temperature limit is 70.0°C)

• 1 - 1000 = 0.1°C - 100.0°C, step is 0.1°C. Too high

temperature limit is set by entered value. In case the set

value is out of this range, module is changing

automatically set value to default value. It is used with

Set value means the type of the device that is connected to

the Q1 output. The device type can be normally open (NO)

the Q2 output. The device type can be normally open (NO)

Available config. parameters (data type is 1 Byte DEC):

0 - When system is turned off the output is 0 V.

Parameter no. 70 - Input 1 status on delay

· 1 - When system is turned off the output is 230 V.

Available config. parameters (data type is 2 Byte DEC):

If the value of parameter is different to 0, means that the

Influence of this input to heating or cooling will react after

inserted time. This parameter has influence only when the

window sensor functionality is selected by the parameter no.

Available config. parameters (data type is 1 Byte DEC):

• 0 - When system is turned off the output is 0 V.

• 1 - When system is turned off the output is 230 V.

1001 - 1150 = - 0.1°C to -15.0°C

Association Group 4.

Association Group 4.

or normally close (NC).

or normally close (NC).

default value 0

default value 0

1 - 32000 seconds

default value 0

enabled. Power report is send with time interval set by Set value means the type of the device that is connected to

• $1001 - 1255 = -0.1^{\circ}$ C to -25.5° C

Parameter no. 45 - Hysteresis Cooling On

This parameter defines temperature difference between

measured temperature and set-point temperature to turn

cooling on. Available configuration parameters (data type is

- button S is pressed more than 2 and less than 6 seconds) 1 input I1 changes the mode of the thermostat between Parameter no. 46 Hysteresis Cooling Off Off and Auto. In this case function on window sensor is This parameter defines temperature difference between disabled measured temperature and set-point temperature to turn
 - according to status of window sensor. In this case 2 Byte DEC): function of Off and Auto selection by I1 is disabled. default value 1002 (-0.2 °C)

Parameter no. 12 - I2 Functionality selection

- Available config. parameters (data type is 2 Byte DEC): default value 32767
- 32767 input I2 does not influence on the Heat & Cool Set value means at which temperature the device will be process turned on even if the thermostat was manually set to off.
- From 0 to 990 Temperature set point from 0.0 °C to Available config. parameters (data type is 2 Byte DEC): 99.0 °C. When I2 is pressed, it automatically set Heat • default value 50 (5.0 °C) and Cool temperature setpoints according to value • $0 - 127 = 0.0^{\circ}$ C to 12.7 °C defined here. In this case function of condense sensor is • 1001 - 1127 = - 0,1°C to - 12,7 °C
- disabled 255 - Antifreeze functionality disabled • From 1001 to 1150 - Temperature set point from -0.1 °C NOTE: Antifreeze is activated only in heating mode. It uses to -15.0 °C. When I2 is pressed, it automatically set a hysteresis determined in parameters no. 43 and 44. temperature setpoint according to value defined here. In Parameter no. 60 - Too low temperature limit this case function of condense sensor is disabled Available config. parameters (data type is 2 Byte DEC): default value 50 (too low temperature limit is 5.0°C)
- to status of condense sensor. In this case function of setpoint selection with I2 is disabled

Parameter no. 40 - Power reporting in Watts on power change

Set value means percentage, set value from 0 - 100=0% -100%. Available configuration parameters (data type is 1 Byte DEC):

• 1-100 = 1%-100% Reporting enabled. Power report is

changes for more than set percentage comparing to

NOTE: If power changed is less than 1W, the report is not

Parameter no. 42 - Power reporting in Watts by time

when power report is send. Available config. parameters

This parameter defines temperature difference between

measured temperature and set-point temperature to turn

This parameter defines temperature difference between

measured temperature and set-point temperature to turn

heating off. Available configuration parameters (data type is

heating on. Available configuration parameters (data type is

Set value means time interval (0 - 32767) in seconds,

previous actual power in Watts, step is 1%.

send (pushed), independent of percentage set.

· default value 0 (power report is disabled)

send (push) only when actual power in Watts in real time

 default value 0 · 0 - reporting disabled

(data type is 2 Byte DEC):

· 0 - reporting disabled

• 0 - 255 = 0,0°C to 25,5 °C

• 1001 - 1255 = - 0,1°C to - 25,5 °C

Parameter no. 44 - Hysteresis Heating Off

entered value

2 Byte DEC):

interval

NOTE: Device status on UI change immediately Parameter no. 71 - Input 1 status off delay

Available config. parameters (data type is 2 Byte DEC): default value 0.

1 - 32000 seconds

If the value of parameter is different to 0, means that the Influence of this input to heating or cooling will react after inserted time. This parameter has influence only when the window sensor functionality is selected by the parameter no. 11

NOTE: Device status on UI change immediately Parameter no. 72 - Input 2 status on delay

See parameter 70 (valid for I2 instead of I1) This parameter has influence only when the condense sensor functionality is selected by the parameter no. 12.

Parameter no. 73 - Input 2 status off delay

See parameter 71 (valid for I2 instead of I1) This parameter has influence only when the condense sensor functionality is selected by the parameter no. 12. Parameter no. 100 - Enable / Disable Endpoint I1 or select Notification Type and Event

Enabling I1 means that Endpoint (I1) will be present on UI. Disabling it will result in hiding the endpoint according to the parameter set value. Additionally, a Notification Type and Event can be selected for the endpoint. Available configuration parameters (data type is 1 Byte DEC): Endpoint device type selection:

- notification sensor (1 - 6):

GENERIC TYPE SENSOR NOTIFICATION. SPECIFIC TYPE NOTIFICATION SENSOR default value 0

- 1 Home Security: Motion Detection, unknown location, 2 - CO; Carbon Monoxide detected, unknown location.
- 3 CO2: Carbon Dioxide detected, unknown location.
- 4 Water Alarm: Water Leak detected, unknown location,
- 5 Heat Alarm: Overheat detected, unknown location. 6 - Smoke Alarm: Smoke detected, unknown location,
- 0 Endpoint, I1 disabled

- sensor binary (9): GENERIC TYPE SENSOR BINARY. SPECIFIC TYPE NOT USED

- 9 Sensor binary
- NOTE1: After parameter change, first exclude module (without setting parameters to default value) and then re include the module!
- NOTE 2: When the parameter is set to value 9 the
- notifications are send for Home Security. Parameter no. 101 - Enable / Disable Endpoint I2 or
- select Notification Type and Event
- See parameter 100 (valid for I2 instead of I1)

Parameter no.110- Temperature sensor offset settings Set value result in adding or subtracting that value to actual measured value by sensor.

Available config. parameters (data type is 2 Byte DEC):

- default value 32536
- 32536 offset is 0.0C
- From 1 to 100 value from 0.1 °C to 10.0 °C is added to actual measured temperature.
- From 1001 to 1100 value from -0.1 °C to -10.0 °C is subtracted to actual measured temperature.

Parameter no. 120 - Digital temp. sensor reporting If digital temperature sensor is connected, module reports measured temperature on temperature change defined by this parameter.

Available config. parameters (data type is 1 Byte DEC):

- default value 5
- · 0 Reporting disabled
- 1-127 = 0,1°C 12,7°C, step is 0,1°C

Parameter no. 121 - Digital temperature sensor / setpoint selector

If digital temperature sensor is not connected, module can

grab measured temperature from external secondary module. Available config. para. (data type is 1 Byte DEC):

- default value 0.
- 0 internal digital temperature sensor is mounted. Functionality setpoint is set by controller
- 1 (bit 0) temperature is grabbed from external always between Off and Auto is possible to select with I1 push on sensor with sensor_multilevel_get sent by association button or from gateway. When the thermostat is turned On, 3
- 2 (bit 1) temperature is grabbed from external battery below: powered room sensor declared in PAR.122
- 4 (bit 2) setpoint is grabbed from external always on module with thermostat setpoint get sent by association 5
- 8 (bit 3) setpoint is grabbed from external battery powered room sensor declared in parameter 122.
- 10 (bit 1 and bit 3) temperature AND setpoint are grabbed from external battery powered room sensor declared in parameter 122
- Parameter no. 122 Node ID of external battery powered room sensor
- If digital temperature sensor is not connected, module can grab measured temperature from external battery powered room sensor defined by this parameter.
- Available config. parameters (data type is 1 Byte DEC): default value 0
- 0 external battery powered room sensor not in function • 1- 254 = Node ID of external battery powered room sensor

NOTE: Get sensor node id from controller and set parameter 122 immediately after sensor weak up (after button press on it etc.)

Technical Specifications

Power supply	110-230VAC ±10% 50/60Hz, 24-30VDC
Rated load current of AC output (resistive load)	2 X 4A / 230VAC
Rated load current of DC output (resistive load)	2 X 4A / 30VDC
Output circuit power of AC output (resistive load)	2 X 920W (230VAC)
Output circuit power of DC output (resistive load)	2 X 96W (24VDC)
Power monitoring accuracy	P=0-200W, +/-2W; P>200W, +/-3%
Operation temperature	-10 ~ 40°C
Distance	up to 30 meters indoors (depending on building materials)
Dimensions (WxHxD) (package)	41,8x36,8x16,9mm (115x96x22)
Weight (Brutto with package)	48g (64g)
Electricity consumption	0,4W
For installation in boxes	Ø ≥ 60mm or 2M
Switching	Relay (2x)
Digital temperature sensor range	-50.0 ~ 125.0°C, resolutior 0.1°C
Digital temperature sensor cable length	1000mm

value of $\cos \varphi$ and if necessary apply load lower than the rated load. Max current for cos φ=0,4 is 2A at 250VAC, 3A at 24VDC.Max Power Limit is automatically set by a software. If max power is exceeded, the output is turned off up to next restart of the module.



0# Or When the temperature is decreasing and reaches point 'Heating On' (defined by parameter 43), heating is turned on and remains active until the temperature in the room is not increased to reach 'Heating Off' (defined by parameter 44). At this point heating and cooling valve are turned off deadband zone. If the temperature rises over 'Cooling On' (defined by parameter 45) point the cooling valve will switch on. The consequence will be temperature dropping, and when temperature drops below 'Cooling Off' (defined by parameter 46) cooling valve will switch off.

Hysteresis

T actua

When the thermostat is turned off, then it is working in antifreeze regime. The antifreeze regime turns on heating when the temperature is lower or equal to the temperature set by parameter 47 (default 5.0C).

Energy saving mode:

Hyst

If parameter 11 is set to value 2 and if the state of the input It is active (window opened active) both outputs (Q1 and Command Classes: (02) are turned off

Condensation:

If parameter 12 is set to value 2000 and if the state of the input I2 is active (condensation sensor active) Q2 output (cooling) is turned off. Z-Wave Device Class: ZWAVEPLUS_INFO_REPORT_ROLE_TYPE_SLAVE_ALWAYS_ON GENERIC TYPE THERMOSTAT SPECIFIC TYPE THERMOSTAT GENERAL V2 Z-Wave supported Command Classes COMMAND_CLASS_ZWAVEPLUS_INFO_V2 COMMAND CLASS VERSION V2 COMMAND CLASS MANUFACTURER SPECIFIC V2 COMMAND CLASS DEVICE RESET LOCALLY COMMAND_CLASS_POWERLEVEL COMMAND_CLASS_BASIC COMMAND_CLASS_SWITCH_ALL COMMAND CLASS SENSOR BINARY COMMAND CLASS THERMOSTAT MODE V2 COMMAND CLASS THERMOSTAT SETPOINT V2 COMMAND CLASS NOTIFICATION V5 COMMAND_CLASS_METER_V4 COMMAND CLASS SENSOR MULTILEVEL V7 COMMAND CLASS MULTI CHANNEL V4 COMMAND CLASS ASSOCIATION V2 COMMAND CLASS MULTI CHANNEL ASSOCIATION V3 COMMAND_CLASS_ASSOCIATION_GRP_INFO_V2 COMMAND_CLASS_CONFIGURATION_V2 COMMAND CLASS MARK COMMAND CLASS BASIC Endpoint1 Device Class: GENERIC_TYPE_THERMOSTAT SPECIFIC TYPE THERMOSTAT GENERAL V2 Command Classes: COMMAND CLASS ZWAVEPLUS INFO V2 COMMAND CLASS VERSION V2 COMMAND CLASS BASIC V2 COMMAND_CLASS_SWITCH_ALL

COMMAND CLASS THERMOSTAT MODE V2 COMMAND_CLASS_THERMOSTAT_SETPOINT_V2 COMMAND CLASS METER V4 COMMAND CLASS ASSOCIATION V2 COMMAND_CLASS_MULTI_CHANNEL_ASSOCIATION_V3 COMMAND CLASS ASSOCIATION GRP INFO COMMAND CLASS MARK COMMAND_CLASS_BASIC Endpoint 2 (I1): Device Class: GENERIC TYPE SENSOR BINARY SPECIFIC_TYPE_NOT_USED Command Classes COMMAND_CLASS_ZWAVEPLUS_INFO_V2 COMMAND CLASS VERSION V2 COMMAND_CLASS_BASIC_V2 COMMAND CLASS SENSOR BINARY COMMAND CLASS NOTIFICATION V5 COMMAND CLASS ASSOCIATION V2 COMMAND_CLASS_MULTI_CHANNEL_ASSOCIATION V3 COMMAND CLASS ASSOCIATION GRP INFO COMMAND CLASS MARK COMMAND CLASS BASIC V2 Endpoint 3 (I2): Device Class GENERIC TYPE SENSOR BINARY SPECIFIC_TYPE_NOT_USED Command Classes: COMMAND CLASS ZWAVEPLUS INFO V2 COMMAND CLASS VERSION V2 COMMAND_CLASS_BASIC_V2 COMMAND CLASS SENSOR BINARY COMMAND CLASS NOTIFICATION V5 COMMAND CLASS ASSOCIATION V2 COMMAND_CLASS_MULTI_CHANNEL_ASSOCIATION_V3 COMMAND CLASS ASSOCIATION GRP INFO COMMAND CLASS MARK COMMAND_CLASS_BASIC_V2 Endpoint 4 (I3): Device Class: GENERIC_TYPE_SENSOR_BINARY SPECIFIC_TYPE_NOT_USED COMMAND CLASS ZWAVEPLUS INFO V2 COMMAND_CLASS_VERSION_V2 COMMAND CLASS BASIC V2 COMMAND CLASS SENSOR BINARY COMMAND CLASS NOTIFICATION V5 COMMAND CLASS ASSOCIATION V2 COMMAND_CLASS_MULTI_CHANNEL_ASSOCIATION_V3 COMMAND_CLASS_ASSOCIATION_GRP_INFO COMMAND CLASS MARK COMMAND CLASS BASIC V2 Endpoint 5 (SENSOR MULTILEVEL): Device Class: GENERIC TYPE SENSOR MULTILEVEL SPECIFIC_TYPE_ROUTING_SENSOR_MULTILEVEL Command Classes:

COMMAND_CLASS_ZWAVEPLUS_INFO_V2 COMMAND CLASS VERSION V2 COMMAND_CLASS_SENSOR_MULTILEVEL_V7 COMMAND CLASS ASSOCIATION V2 COMMAND CLASS MULTI CHANNEL ASSOCIATION V3 COMMAND CLASS ASSOCIATION GRP INFO

COMMAND CLASS BASIC The basic command class supports the functions BASIC SET and BASIC GET. Through the function basic SET is possible to set the mode of the module. Basic SET can send the values 0xff which means Auto and 0x00 which means Off. Through the function basic GET is possible to read the mode of the module. The module returns 0xff which means Auto or 0x00 which means Off. COMMAND CLASS SENSOR MULTILEVEL Flush Heat & Cool thermostat supports reading of actual temperature which is 2 bytes long, scale is °C and its precision is 1 (it means 0,1°C). COMMAND CLASS THERMOSTAT MODE Flush Heat & Cool thermostat supports the following modes:

· Mode Off

Mode Auto

COMMAND CLASS THERMOSTAT SETPOINT Flush Heat & Cool thermostat supports temperature set point, which is 2 bytes long, scale is °C and its precision is 1 (it means 0 1°C)

This product can be included and operated in any Z-Wave network with other Z-Wave certified devices from any other manufacturers. All constantly powered nodes in the same network will act as repeaters regardless of the vendor in order to increase reliability of the network.

Important disclaimer

Z-Wave wireless communication is inherently not always 100% reliable, and as such, this product should not be used in situations in which life and/or valuables are solely dependent on its function.

Warning!

Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities.

Contact your local government for information regarding the collection systems available. If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being. When replacing old appliances with new once, the retailer is legally obligated to take back your old appliance for disposal at least for free of charge.This user manual is subject to change and improvement without notice. NOTE: User manual is valid for module with SW version S4 (SW version is part of P/N)! Example: P/N: ZMNHKDx H1S4P1

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Temperature control On

Thermostat has 2 working mode, Off or Auto. Selection