



# Qubino THERMOSTAT 2 Flush ON/OFF Smart Heating System User Manual

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**Qubino THERMOSTAT 2 Flush ON/OFF Smart Heating System**



The Flush On/Off Thermostat 2 is ideal for remotely controlling electric or water-based underfloor heating systems, electric water heaters, hot water pumps, electric radiators and similar. It measures power consumption and supports the connection of a digital temperature sensor, which is included in the package.

## PACKAGE CONTENTS

- Flush On/Off Thermostat 2 Device,
- Temperature sensor,
- Installation Manual

## INSTALLATION

1. To prevent electrical shock and/or equipment damage, disconnect electrical power at the main fuse or circuit breaker before installation and maintenance.
2. Be aware that even if the circuit breaker is off, some voltage may remain in the wires — before proceeding with the installation, be sure no voltage is present in the wiring.
3. Take extra precautions to avoid accidentally turning on the device during installation.
4. Connect the device exactly according to the diagram.
5. Place the antenna as far as possible from metal elements as they may cause signal interference.
6. Do not shorten the antenna.

### **Danger of electrocution!**

Installation of this device requires a great degree of skill and may be performed only by a licensed and qualified electrician. Please keep in mind that even when the device is turned off, voltage may still be present in the device's terminals.

**Note!** Do not connect the device to loads exceeding the recommended values. Connect the device exactly as shown in the provided diagrams. Improper wiring may be dangerous and result in equipment damage.

Electrical installation must be protected by directly associated overcurrent protection fuse 10A, gG or Time lag T, rated breaking capacity 1500A (ESKA 522.727) must be used according to wiring diagram to achieve appropriate overload protection of the device. The fuse must be installed in fuse holder type: Adele contact 503Si/1 DS according to the standard IEC60669-2-1.

## Z-WAVE INCLUSION

## SMARTSTART INCLUSION

1. Scan QR code on device label and add S2 DSK to Provisioning List in gateway (hub)
2. Connect the device to the power supply (with the temperature sensor already connected)
3. Inclusion will be initiated automatically within few seconds of connection to the power supply and the device will automatically enrol in your network (when the device is excluded and connected to the power supply it automatically enters the LEARN MODE state).

## MANUAL INCLUSION

1. Enable add/remove mode on your Z-Wave gateway (hub)
2. Connect the device to the power supply (with the temperature sensor already connected\*)
3. Toggle the switch connected to the I1 terminal 3 times within 3 seconds (1 click per second). The device has to get On/Off signal 3 times, meaning 3 times push of the push button or with the normal button 3 times On/Off .
4. Inclusion with the switch connected to I1 terminal is not limited by time OR If the device is powered by 24 V SELV supply, press and hold the S (Service) button between 3 and 6 seconds (this procedure puts the device in LEARN MODE).
5. A new on/off device will appear on your dashboard
6. Exclusion with the switch connected to I1 terminal is not limited by time

\*Make sure the device is excluded from your network before connecting the temperature sensor. Switch off the power supply connect the temperature sensor, and re-include the device to your network.

Note: In case of S2 Security inclusion a dialog will appear prompting you to enter the corresponding PIN number (5 underlined digits) that are written on the module label and the label inserted in the packaging (check the example picture).

**IMPORTANT:** The PIN code must not be lost.

## Z-WAVE EXCLUSION/RESET

### Z-WAVE EXCLUSION

1. Connect the device to the power supply
2. Make sure the device is within direct range of your Z-Wave gateway (hub) or use a hand-held Z-Wave remote to perform exclusion
3. Enable exclusion mode on your Z-Wave gateway (hub)
4. Toggle the switch connected to the I1 terminal 3 times within 3 seconds OR If the device is powered by 24 V SELV supply, press and hold the S (Service) button between 3 and 6 seconds
5. The device will be excluded from your network but any custom configuration parameters will not be erased.

**NOTE 1:** LEARN MODE state allows the device to receive network information from the controller.

**NOTE 2:** After device is excluded you should wait 30seconds before performing re-inclusion.

### FACTORY RESET

1. Connect the device to the power supply
2. Within the first minute the device is connected to the power supply, toggle the switch connected to the I1

terminal 5 times within 5 seconds OR If the device is powered by 24 V SELV supply, press and hold the S (Service) button for more than 6 seconds By resetting the device, all custom parameters previously set on the device will return to their default values, and a node ID will be deleted. Use this reset procedure only when the gateway (hub) is missing or otherwise inoperable.

**NOTE:** See extended manual for custom settings and parameters available for this device.

## IMPORTANT DISCLAIMER

Z-Wave wireless communication is not always 100% reliable. This device should not be used in situations in which life and/or valuables are solely dependent on its functioning. If the device is not recognized by your gateway (hub) or shows up incorrectly, you may need to change the device type manually and make sure your gateway (hub) supports Z-Wave Plus devices. Contact us for help before returning the product:

<http://qubino.com/support/#email>

## 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 ones, the retailer is legally obligated to take back your old appliance for disposal free of charge.

## TECHNICAL SPECIFICATIONS

Power supply	110 – 240 VAC $\pm 10\%$ 50/60Hz, (24-30VDC)
Rated load current of AC/DC output	1 X 10A (240VAC) / 1 X 10A / 24VDC
Output circuit power of AC/DC	2400W (240VAC) / 1100W (110VAC)/ 240W (24VDC)
Power measurement accuracy	P=5-50W, $\pm 3\%$ P>50W, $\pm 3\%$
Digital temperature sensor range	-25 ~ +80°C (-13 ~ 176°F)

Operation temperature	-10 ~ +40°C (14 ~ 104°F)
Z-Wave operation range	up to 30 m indoors (98 ft)
Dimensions (WxHxD) (package)	41,8×36,8×16,9 mm (115x96x22 mm) / 1,65×1,45×0,66 in (4,25×3,77×0,87 in)
Weight (with package)	48g (64g) / 1.69oz (2.26oz)
Electricity consumption	0,4W
For installation in boxes	Ø ≥ 60 mm (2,36 in) / 2M, Depth ≥ 60 mm (2,36 in)
Switching/ Commutation	Relay
Digital temperature sensor cable length	1000 mm (39,37 in)
Z-Wave Repeater	Yes

In case of loads other than resistive loads, please pay attention to the value of  $\cos \varphi$ . If necessary, connect loads less powerful than what they're rated for – this applies to all motor loads. Max current for  $\cos \varphi=0,4$  is 3A at 250VAC, 3A at 24VDC L/R=7ms.

#### **FCC compliance statement (applies only in the US):**

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not in-stalled and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help. This user manual is subject to change and improvement without prior notice.

## Documents / Resources

	<a href="#">Qubino THERMOSTAT 2 Flush ON/OFF Smart Heating System</a> [pdf] User Manual THERMOSTAT 2, Flush ON, OFF Smart Heating System
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