

Instructions for operating of the heat controller with the software TS-plus2_with_WiFi

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General information:

Software TS-plus2_with bluetooth used in heat controller TS 56+WiFi.

Heat controller TS 56+WiFi uses the software TS-plus2_with_WiFi and can receive commands and sends information from (to) ANDROID phone or tablet.

In the phone (tablet) should be installed application TS56+WiFi (Java software).

There is no difference between the functionality of thermo TS56+ and TS56+WiFi.

Heat controller can be operated without using a phone (tablet).

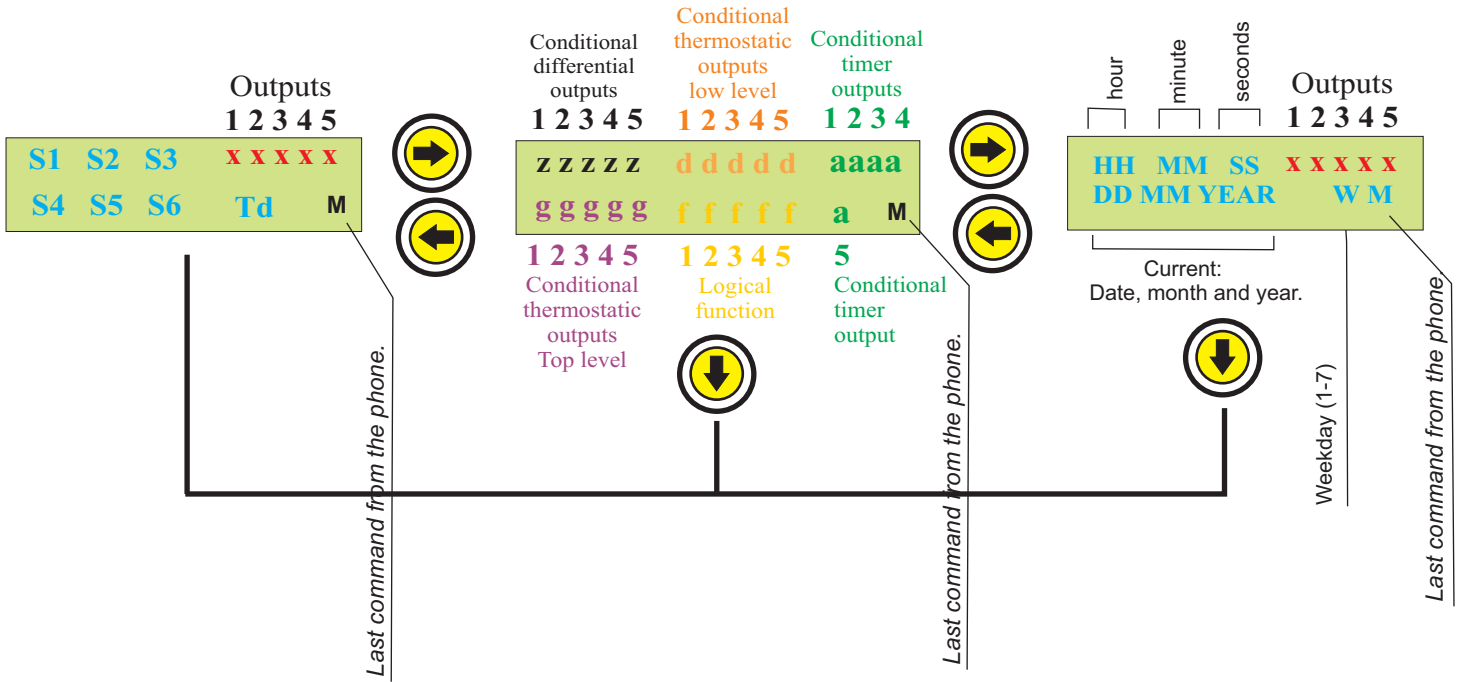
Below specified functionality which can not be used in the absence of the telephone.

Phone (tablet) can be use at a later stage.

Full details for heat controller TS 56+WiFi see in documentation heat controller TS56+.

Programming of the table of the controller TS56+ includes the following modes: 3
1. Mode automatic operation.

Removed leap year and added "Last command from the phone."
 If there was no command from phone, shows M = 0.



Set the factory parameters of the controller.

To make a 'RESET' the controller must be in automatic mode.

Pressing the 'Left', hold and then press the button 'Right' - causing 'RESET'.

Novelty in 'RESET' is establish a default password 123456.

The password, controlling written access into the controller.

2. Mode information. Display statistical information on the display.

It can only be done by phone.

3. Mode "Set time and date".

It can only be done by phone.

The controller will get, with set date and time.

Set the date, month, year and day of the week

It can only be done by phone.

4. Set the timers.

It can only be done by phone.

Table to programming of the controllers with the software TS-plus2

1	Auto mode.	<p>Outputs 1 2 3 4 5 S1 S2 S3 x x x x x S4 S5 S6 Td M</p>	<p>Outputs 1-5: o-TURN OFF, x-TURN OFF</p>	<p>zzzzz d d d d d aaaa ggggg f f f f f a M</p>	<p>Date DD MM YEAR Hour HH MM SS W M</p>		
	2	Information	It can only be done by phone.				
3-Date&hour	SET TIME	It can only be done by phone.					
	SET DATE	It can only be done by phone.					
4-Timer	SET TIMER	It can only be done by phone.					
	<p>Td1-8: Td1,Td2,Td3 Td4,Td5,Td6,Td7,Td8</p> <p>Temperatures used in thermal timers 1 to 8. For a change values of 5 °C to 90°C, use keys '+' and '-'.</p>	It can only be done by phone.					
5-Thermostats top level	<p>UI-8: u1 u2 u3 u4 u5 u6 u7 u8</p> <p>u1-u8 are the numbers of outputs, used into timers 1 to 8. If the output is different from '0' then the corresponding row is used by the clock time, for set indication output. Ux must be from 0 to 5.</p>	It can only be done by phone.					
	<p>Top level - °C XX,XX,XX,XX,XX 1 2 3 4 5</p> <p>Temperature for thermostats 1 to 5, TURN ON into top level. By increase of temperature to XX°C, the output are TURN ON.</p>	<p>Thermostat 1 °C=2 до 90</p>	<p>Thermostat 2 °C=2 до 90</p>	<p>Thermostat 3 °C=2 до 90</p>	<p>Thermostat 4 °C=2 до 90</p>	<p>Thermostat 5 °C=2 до 90</p>	
6-Thermostats low level	<p>Top level - Sensor S, S, S, S, S 1 2 3 4 5</p> <p>Choice of sensor 1 to 6 for the thermostats (TURN ON into a top level). S- the number 0 to 6 (0 the thermostat is not used) of sensor for the selected thermostat.</p>	<p>Thermostat 1 S=0 до 6</p>	<p>Thermostat 2 S=0 до 6</p>	<p>Thermostat 3 S=0 до 6</p>	<p>Thermostat 4 S=0 до 6</p>	<p>Thermostat 5 S=0 до 6</p>	
	<p>Low level - °C XX,XX,XX,XX,XX 1 2 3 4 5</p> <p>Temperature for thermostats 1 to 5, TURN ON into low level. By decrease of temperature to XX°C, the output are TURN OFF.</p>	<p>Thermostat 1 °C=2 до 90</p>	<p>Thermostat 2 °C=2 до 90</p>	<p>Thermostat 3 °C=2 до 90</p>	<p>Thermostat 4 °C=2 до 90</p>	<p>Thermostat 5 °C=2 до 90</p>	
7-Differential regulators	<p>Low level - Sensor S, S, S, S, S 1 2 3 4 5</p> <p>Choice of sensor 1 to 6 for the thermostats (TURN ON into a low level). S- the number 0 to 6 (0 the thermostat is not used) of sensor for the selected thermostat.</p>	<p>Thermostat 1 S=0 до 6</p>	<p>Thermostat 2 S=0 до 6</p>	<p>Thermostat 3 S=0 до 6</p>	<p>Thermostat 4 S=0 до 6</p>	<p>Thermostat 5 S=0 до 6</p>	
	<p>ON TEMPERATURE 05 05 05 05 °C 1 2 3 4 5</p> <p>Temperature difference ONx to TURN ON, the differential regulator 1, 2, 3, 4 and 5. To change from 5 to 39°C, use the buttons '+' and '-'.</p>	<p>REGULATOR 1 ST=0 до 6</p>	<p>REGULATOR 2 ST=0 до 6</p>	<p>REGULATOR 3 ST=0 до 6</p>	<p>REGULATOR 4 ST=0 до 6</p>	<p>REGULATOR 5 ST=0 до 6</p>	
8-Functions	<p>OFF TEMPERATURE 02 02 02 02 °C 1 2 3 4 5</p> <p>Temperature difference OFx to TURN OFF, the differential regulator 1, 2, 3, 4 and 5. To change from 2 to 9 °C, use the buttons '+' and '-'. The differential temperatures must be ONx>OFx.</p>	<p>REGULATOR sensor ST T, T, T, T, T 1 2 3 4 5</p> <p>Sensors for the heat source of the differential regulators 1, 2, 3, 4 and 5. ST = 0-6 is the sensor number of heat source. ST = 0 when the regulator is not used. To change use the buttons '+' and '-'.</p>	<p>REGULATOR 1 SP=0 до 6</p>	<p>REGULATOR 2 SP=0 до 6</p>	<p>REGULATOR 3 SP=0 до 6</p>	<p>REGULATOR 4 SP=0 до 6</p>	<p>REGULATOR 5 SP=0 до 6</p>
	<p>OUT Logic Function O, O, O, O, O 1 2 3 4 5</p> <p>Logical functions of the outputs 1 to 5</p> <p>O - Logic function "OR" A - Logic function "AND"</p> <p>The button "+" set the function "AND" The button "-" set the function "OR"</p>	<p>OUTPUT 1 OR или AND</p>	<p>OUTPUT 2 OR или AND</p>	<p>OUTPUT 3 OR или AND</p>	<p>OUTPUT 4 OR или AND</p>	<p>OUTPUT 5 OR или AND</p>	
9	<p>SENSORS 1: ±XX, 2: ±XX 3: ±XX, 4: ±XX, 5: ±XX, 6: ±XX</p> <p>Calibration of the sensors 1, 2, 3, 4, 5 and 6.</p> <p>XX-константа (от 0 до 31) за добавяне (+) или изваждане (-). Единицата означава 0.5 градуса. About measured degrees are added or subtracted XX / 2 degrees. XX - constant (0 to 31) for increase (+) or decrease (-). 1=0.5 degree.</p>	It can only be done by phone.					
	<p>TEST OUT 1 OFF/ON</p> <p>Output 1 TURN ON/TURN OFF. Status the output:</p>	<p>Output 1 turn off</p>	<p>OUT 1 OFF</p>	<p>Output 1 turn on</p>	<p>OUT 1 ON</p>		
10-Test outputs	<p>OFF/ON</p> <p>Output 2 TURN ON/TURN OFF. Status the output:</p>	<p>Output 2 turn off</p>	<p>OUT 2 OFF</p>	<p>Output 2 turn on</p>	<p>OUT 2 ON</p>		
	<p>OFF/ON</p> <p>Output 3 TURN ON/TURN OFF. Status the output:</p>	<p>Output 3 turn off</p>	<p>OUT 3 OFF</p>	<p>Output 3 turn on</p>	<p>OUT 3 ON</p>		
	<p>OFF/ON</p> <p>Output 4 TURN ON/TURN OFF. Status the output:</p>	<p>Output 4 turn off</p>	<p>OUT 4 OFF</p>	<p>Output 4 turn on</p>	<p>OUT 4 ON</p>		
	<p>OFF/ON</p> <p>Output 5 TURN ON/TURN OFF. Status the output:</p>	<p>Output 5 turn off</p>	<p>OUT 5 OFF</p>	<p>Output 5 turn on</p>	<p>OUT 5 ON</p>		

Note:
1. The letters in bold type are show to the display.
2. Buttons: arrow up, down, left, right, 'CL' and 'END', transmit one pulse on push and back.
3. Buttons: '+' and '-' serve to change digits. By pressing and holding, transmit multiple pulses.

Set the number of the output to use from the clock timers:

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It can only be done by phone.