#### **16. PRECAUTIONS/ SAFETY INSTRUCTIONS**

Switch off power from all wiring before installing, testing or replacing the thermostat. Only qualified electricians are allowed to work on electrical connections and the electric supply of the device. Otherwise the warranty invalidates. Only use plastic wall mounting boxes for the thermostat installation.

#### **17. WARRANTY**

The manufacturer guarantees the compliance of the thermostat with the design description given that the installation and operation manual has been respected.

#### Warranty period - 2 years from date of purchase.

In case of failure during the warranty period due to faulty manufacturing despite correctly executed installation (according to the installation and operation manual), the customer has the right to get the product repaired or replaced.

The warranty does not cover any damages due to inadequate handling, damages through third party faults, wrong installation (not following the manual) or its consequential damages. Please keep your receipt. Warranty payments will be provided upon presentation of the sales receipt only.

#### 18. CLAIMS

In case of failure during the warranty period, please contact the supplier service center or the regional authorized representative.

#### The thermostat MCS300 passed all tests successfully.

Name:	
Street:	
Zip code, city:	
Country:	
Phone:	E-Mail:
Date of purchase:	Installer:
Installation date:	Signature

#### 19. Wi-Fi NETWORK SETTINGS (router settings)

	SSID network name:	any (for default network MCS_default)
	Wi-Fi network name:	any (for default network 12345467890)
	Wireless network mode:	AUTO
	Channel range:	40 MHz
	Channel:	AUTO
	Authetication method:	WPA-AUTO-Personal
		(WPA/WPA2 Personal)*
	WPA encryption:	AES
	*	

\* the thermostat MCS 300 supports WPA Personal authetification method



NST-1300-MCS300 APPLE-UH-261113

# **MCS 300**

MOBILE COMFORT SYSTEM



# Manual

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#### **15.3.2 CONNECT ANOTHER THERMOSTATS**



(23)

#### **15.3. CONNECT THE NEXT THERMOSTAT**

To connect the second thermostat, please follow the instructions described in chapter 14.2.

#### 15.3.1 Second thermostat



To connect the thermostat with the Wi-Fi, please set the password as first (see chapter 10.2).

















#### **1. SYSTEM REQUIREMENTS**

iPhone with iOs 6 or higher

min. 1, max. 32 MCS300 thermostat

Install the thermostat in the wall and connect it with the heating element of the electrical warm floor heating system, as it shown in the installation manual.Download the software, connect the thermostat devices with your network and start your system.





with built-in Wi-Fi-module

#### 2. IMPORTANT INFORMATION FOR SAFE USAGE

Manufacturer's guarantee does not cover malfunctions caused by mechanical damage, improper installation, or exploitation for purposes, or under conditions, not provided by the User- and Installation Manual. Please keep in mind that the Installation Manual and the Connection Diagram are no replacement for the professional skill of the device installer. We recommend that you apply for professional service for the thermostat and heating system installation. Only qualified electricians should perform the connections and power networking of the device. Switch off power before connecting wiring to the thermostat or disconnecting the device for testing.

#### 3. INTRODUCTION

Thank you for choosing the new and innovative thermostat application **MCS 300** - an electronic regulation device. We proudly present you the thermostat application **MCS 300** for remote control of electric heating systems by means of the smartphone. This is a convenient solution for modern people, who value comfort and know how to be master of their time. The thermostat application **MCS 300** allows a user to control the operation of electric warm floor heating systems. The thermostat and smartphone are commutated in the unified local network through common domestic Wi-Fi router. Control over all thermostats is possible through Internet from anywhere in the world.

#### 4. APPLICATION

The thermostat application **MCS 300** allows to control the parameters and to manage the operation of electric heating systems in rooms (living room, bedroom, kitchen, children room, etc) or in several residential properties (apartment, house, country house). Simultaneously, the application can interact with up to 32 heating systems by connecting them in one Wi-Fi network. Maximum amount of united in one system thermostats depends on the type of the router and the amount of other devices, connected to the network. It is designated by the amount of free for use IP-addresses. In every room the thermostat application **MCS 300** enables a user in current time mode to preset and maintain the heating temperature in the range from +5 °C to +45°C, and also control the working order of heating system elements.

#### **5. OPERATION MODES**

In the basic settings of the thermostat application MCS 300 are three operation modes are provided:

MODE

+5 °C to +45 °C



TEMPERATURE MAINTAIN

In this operation mode you

have the possibility to adjust

the maintain temeprature from

VACATION MODE If the user activating this

mode, he could preset the

the room maintainance

from +5 °C to +12 °C.

temperature in the range

#### PROGRAM MODE

The program operation mode allows to preset the heating schedule for each room for every day of the week ahead. The user is able to enter desired heating temperature values for hourly amount of time for a day. You just preset the desired temperature. Thermostat application **MCS 300** monitors it itself, maintaining comfort and saving energy.

#### RESERVATION

Technical data are subject to change without notice. Changes, errors and printer's errors do not justify claims for damages. For safety components and systems the relevant standards and regulations are to be observed, as well as the corresponding operating and installation instructions.

#### **15.2.3. SET THE THERMOSTAT SETTINGS**

Few seconds after start, the first set appears in your thermostat list. Now you can set all settings for this heating circuit (e.g. room name or heating mode).



To finish the settings, set your heating mode like described in chaper 11 "program mode"; chapter 12 "maintain tempearture mode" or chapter 13 "vacation mode".

#### Please note your settings

Room	Settings

# 15. CONNECT SEVERAL THERMOSTATS (UP TO 32) WITH YOUR HOME NETWORK

### **15.1. PREPARATION**

- Install all thermostats like described in chapter 7.
- Switch on all installed thermostats to set their MAC adress (like chapter 9.1.)
- Open your iPhone settings/Wi-Fi like described in chapter 9.2 -

# **15.2. CONNECT THE FIRST THERMOSTAT**

15.2.1. Wi-Fi SETTINGS



open your Local netwo thermostat at thermostat. 0:08:dc:1b:e8:10 active and open

m da 🕾 14:25

90.96



Open the settings





2	●●●●● Telekom.de 🗢 14:28	* 90 % <b>==</b> D
- tiv	Settings Wi-Fi	
-d		
and	Wi-Fi	
ed	<ul> <li>Heart duest</li> </ul>	<b>≜ ╤ (j</b>
is om list	CHOOSE A NETWORK	
	00:08:dc:1a:24:25	<b>a</b> ≈ (j)
1151.	00:08:dc:1b:e8:94	<b>≜</b>
	Other	
	Ask to Join Networks	$\bigcirc$
	Known networks will be joined	

Telekom.de 3G 15:03

I-WARM mobile

🖄 77 % 🔳

# **6. THERMOSTAT TECHNICAL DATA**





**5.1. TECHNICAL DATA** 



Picture 3: side view MCS 300

Picture 1: front view MCS 300



Picture 4: top view MCS 300 with removed cover

Supply voltage 230 V AC Maximum load current 16 A Power consumption 2 W Weight 100 g Dimensions 83x83x48 mm max. safe time settings (disconnected) 12 months IP21 **IP** rating Protection class Ш TST02 Sensor type Sensor wire length 2 m **Operation temperature** +5°C....+40°C max. humidity 80 % temperatre setting range +5°C....+45°C

# 7. THERMOSTAT CONTROLS AND INDICATION



max. ambient temperature

#### **15.2.2. RESTART SOFTWARE**



Picture 32: Restart MCS300 App



+28 °C

# 8. THERMOSTAT INSTALLATION

Remove the front cover of the thermostat.

- 1. Unlock the cover by insertion of a flat blade screwdriver
- 2. Remove the cover (picture 5).
- 3. Install the power supply, the heating mat and the sensor according the wiring diagram
- 4. Mount the Thermsotat into the inwall mounting box
- 5. Set the temperature and Wi-Fi settings (see chapter OPERATIONS)
- 6. install the front cover



Picture 6: front cover removing



Picture 7: assembly / disassembly diagram

The thermostat MCS 300 is equiped with a removable front cover / frame. This front cover is normally fixed on a frame. This frame could be removed, if it is necessary to install the thermostat into the junction box without the front cover. With this flexibel installation possibility the thermostat could be easely installed in standard stopper plugs of some manufacturers of electric equipment too.

To remove the frame of the device, press the four fixing clamps, located on upper and bottom sides of the thermostat, with a flat blade screwdriver and remove the frame from the thermostat body.





#### **12.1.2. HEATING SCHEDULE**





om de 😤 15:19 Copy from Tuesday Wednesday Thursday Friday Saturday Sunday

If could copy your settings to another day

Picture 25: Heating schedule screens

12.1.3. WEB & Wi-Fi ACCESS







# **12. TEMPERATURE MAINTAIN MODE**



Picture 29: Vacation screen

Slide the button to left or to right to set your comfort temperature (left decrease temperature, right increase temperature) (min +5°C, max +45°C)

The small number is your set comfort temperature, the big number shows you the measured room temperature.

# **13. VACATION MODE**



Set your economy temperature during the vacation by sliding the button (left down, right up) (min +5°C, max +12°C)

Picture 30: Vacation screen

Picture 8: disassembly of the removable frame

6

00.08.dc.1b.e8.1

#### **11.3.2. MAIN SCREEN STRUCTURE**





#### 9.1. SOFTWARE INSTALLATION

Search and download the free application MCS 300 in the shop in accordance to your mobile phone operation system.



Picture 9: MCS 300 software icon





Picture 11: MCS 300 software icon after finished installation

#### **10. CONNECT THE THERMOSTAT TO THE NETWORK**

The thermostat MCS 300 is a temperature controller with build in Wi-Fi module. Therefore each thermsotat could be used as an access point too.

installation iPhone

#### 10.1. SET MAC-ADRESS

To connect the thermostat through AP (access point), quickly press twice the «default» key on the thermostat. The green LED will start blinking at that. The thermostat becomes an access point at this moment with a name «MACaddress of the device» (for example 00:08:DC:10:24:26) and the green LED go on continuously. Now you are able to connect the thermsotat with your mobile phone.



#### **10.2. CONNECT THE THERMOSTAT DIRECT TO THE MOBILE PHONE**

If you don't have a Wi-Fi Router, you are also able to connect the Thermostat directly to your iPhone.



# **12. PROGRAM MODE**

#### **12.1. SETTINGS SCREEN STRUCTURE**



14:09 \$ 87 % D	save your changed settings	Save
:dc:1b:e8:10		
00:08:dc:1b:	open the room name screen	
Heating schedule Mode "Vacation" 5° Internet access	open the heating schedule sc	reen
	open the vacation screen	
	open the internet access so	creen
	open the Wi-Fi screen	
on	open the Info screen	
Device information	<u> </u>	
	1600         \$ 07 %           attings         Bare           dc:1bx08:10         00:08:dc:1b:           00:08:dc:1b:         -           ale         -           n"         5°           s         -           an         -           an         -	100       3 07 % T         attings       save your changed settings         dc:1bx08:10       open the room name screen         00:08:dc:1b:       open the heating schedule sc         ale       open the vacation screen         n*       5*         open the internet access sc         an       open the Wi-Fi screen         open the Info screen

\* 86 %

Yes

Picture 21: Program mode screen





Picture 22: Heating circuit settings screen

Picture 24: Information message screen

