SMS-Temperaturlarm 16-87T4

Med inbyggd strömbrytare

User Manual

Manual version 1.0

SMS-Temperaturlarm 16-87T4 GSM Power Socket

Thank you for purchasing the SMS-Temperaturlarm 16-87T4.

The SMS-Temperaturlarm 16-87T4 is a remote controlled socket consisting of a GSM module. The power supply output of the socket can be turned on or off remotely by the SMS command or local controlled by pressing button. It is an intelligent power supply socket controlled by users' mobile phone at anytime and anywhere.

SMS-Temperaturlarm 16-87T4 is suitable for controlling electrical appliances which power consumption less than 3600W in household or office. It is universal for all kinds of indoor power supply sockets.

With extended-connected temperature sensor, SMS-Temperaturlarm 16-87T4 can switch on or off the socket output according to the environment temperature. It's available for power control of the heating or refrigeration plant, to keep the environmental temperature within presetting range or at a fixed temperature value. Furthermore, it support up to 4 units 433Mhz slave socket, control 5 sockets with one SIM card.

SMS-Temperaturlarm 16-87T4 is mainly applied for house and office usage. It is **not** suited for industry application, especially in humidity or dust condition.

All services and functions need to be supported by the GSM network and a SIM card.

This brochure suits the **SMS-Temperaturlarm 16-87T4** model.
Details of the functioning and advanced operation of this socket are described in this instruction manual.

CONTENT

1. **Purchase a GSM SIM card (mobile phone card) from GSM network service provider and install it in the socket. This SIM card number is referred as SMS-Temperaturlarm 16-87T4 number on this brochure.**
2. **The user needs to activate the Caller ID Presentation function of SIM card, and deactivate PIN code of the SIM. Contact with GSM network service provider for support.**
3. **Change the original password at the beginning use. Be sure to keep the password and SIM card number secret. Do not disclose this information to anyone other than the authorized users in order to ensure your safety.**

For your safety

- This socket was designed for home or office use. Do not use it on the electrical appliance which is for industry or business operation, for example, iatrical appliances, large heaters and refrigerates.
- Before using this socket, make sure that the mobile phones can be used well in the area, otherwise, do not put this socket into operation.
- The power consumption of the appliances connected with the socket cannot exceed 3600W and the current cannot exceed 16A.
- The electrical appliance which power consumption is higher than 1500W must be grounded.
- Do not make two plugs of socket short circuit.
- Do not touch the socket jack by any metal objects or hand.

- This socket was designed for indoor use. Don't use it in wet, chemically aggressive or dusty environment.
- Do not open the case unless maintenance needed.
- Do not keep shaking or fall down this socket, otherwise it can be damaged.
- This socket is a wireless signal transmission socket. Keep it away from electronic equipment likely to interfere with the wireless signals, in order to avoid signals interference.
- Switch off this socket and mobile phone when entering areas marked "Explosive", "Might explode", "Closed wireless transceiver sockets" etc.
- Do not cast this socket in a fire, as this may cause explosion.
- This socket should only be operated from power approved by the socket manufacturer. The use of any other types of power may damage the socket.
- Keep the socket and its accessories out of the children reach.

Exception clause

1. We operate on a policy of continuous development. We reserve the right to make changes and improvements to any of the sockets described in this document without prior notice.
2. For the latest socket information, please visit: http://www.simpal.cn. We don't guarantee for the document veracity, reliability or any content except regulate in proper laws. Including no guarantee for socket suitable market or suitable area promise.
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this document or withdraw it at any time without prior notice.

Chapter 1 Features and accessories

1.1 Main function

- This socket uses a GSM SIM card.
- Remotely operate by SMS command: The socket be controlled and set by sending SMS commands.
- Input: 110V-250V/50Hz.
- Output: Max.16A for long-duration operation.
- Relay: 16A/250V relay with two working status power on/off for output outlet.
- M button: To manual control output power on/off.
- Delayed control socket output.
- Auto operates by preset schedule: Fixing-time control output power on/off.
- External temperature sensor supported: Send environmental temperature SMS to mobile phone.
- Auto operates by temperature: Available for power control of the heating or refrigeration plant, to keep the environmental temperature within presetting range or at fixed temperature value.
- SMS alarm when temperature rapid-changing or reaching the pre-set value: When it detects the rapid-changing or the reach of pre-set alert value of surroundings temperature, it can auto-send the SMS alarm message to master's mobile phone.
- Work with up to 4pcs slave socket SMS-Temperaturlarm 16-87T4R.
- Support 5 mobile phone users.
- Auto time-synchronization.
- SMS notification upon external power source changing.

1.2 Package contents

GSM power socket（1 unit）

Temperature sensor（1 unit）

1.3 Sockets instructions

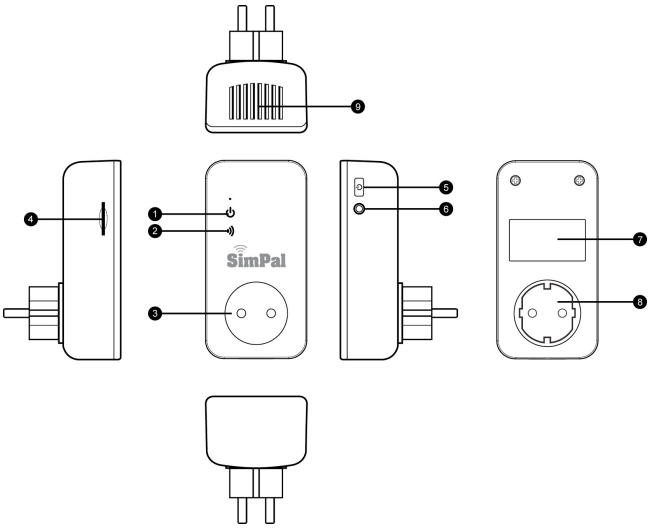

Figure 1: SMS-Temperaturlarm 16-87T4S instructions

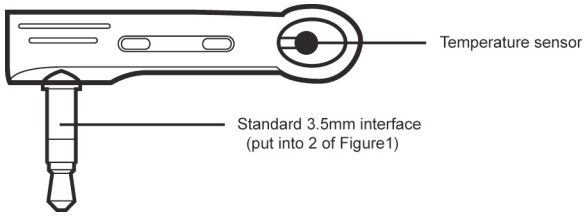

Figure 2: Temperature sensor Instruction

SMS-Temperaturlarm 16-87T4R

1.4 Light indicator and “Beep” warning tone

Model	Indicator	Action	Status
SMS-Temperaturlarm 16-87T4S GSM Socket	Power LED	Turning off	No power supply input
		Constant light	Has power supply input
	GSM LED	Turning off	Not installed SIM card, or failed register GSM network.
		Flash slowly	Searching GSM network
		Slowly breath	Working in standby mode.
		Flash fast	Process SMS command.

Chapter 2 Quick start

2.1 Install the SIM card and temperature sensor

- Installed SIM card to SMS-Temperaturlarm 16-87T4 GSM power socket; you will see a SIM card slot at the side, make the SIM card metal contact upside and hardly push the SIM card until SIM card fixed.
- Insert the temperature sensor into the I/O port until it is seized.

2.2 GSM Power on/ off

Power on:

1. Plug the SMS-Temperaturlarm 16-87T4 in an AC power socket.
   The GSM LED will be flashing slowly for about 15 seconds, and turn to slowly breathe status and a long “Beep” tone can be heard.

The default state of the socket outlet is no power supply output.

2. Insert the plug of electronic appliance in the SMS-Temperaturlarm 16-87T4 electrical outlet (See 4 on Figure1).
3. **M button** (See 3 on Figure1) can be pressed for about 0.5 second to switch on or off the output of socket.
   After adding user numbers to the socket, users can send SMS command to control the power supply output. (Refer to Chapter 3.2)

Note:

1. If the GSM indicator light is not constant lights, which imply the SIM card working abnormally, all functions of this socket are invalid.
2. Check GSM network signal of the using place:
   - The GSM network’s signal strength may affect the socket feature. Therefore, before using, the user should ensure that SMS-Temperaturlarm 16-87T4 is used in an area with a strong GSM network signal.
   - For the first time use, the user should perform a test-run by sending SMS to the socket. This allows the user to check the GSM network connection of the socket.

2.3 Add a Master number to the socket

The user must edit and send the following SMS to socket via his/her mobile phone (the phone number will be the **Master** number) in order to:

Add a Master number to the socket: #00#

☺ **Successful SMS reply**

Welcome to use SMS-Temperaturlarm 16-87T4
Your Password is:1234.

2.4 Socket output switching on/off

Method

Method 1：To press **M button 0.5 second** (See 3 on Figure1).

Method 2：

Master sends following SMS message to socket in order to:

Turn ON only SMS-Temperaturlarm 16-87T4 socket output: #01#0#

Turn ON all sockets output: #01#

Turn OFF only SMS-Temperaturlarm 16-87T4 socket output: #02#0#

Turn OFF all sockets output: #02#

☺ **Successful SMS reply**

Host status: ON, Temp: **C
S1 status: OFF, Temp: **C
S2 status: OFF, Temp: **C
S3 status: OFF, Temp: **C
S4 status: OFF, Temp: **C

2.5 External power supply notification

SMS-Temperaturlarm 16-87T4 will notify the user when the external power changes. The “Beep, Beep…” tones will be heart (if enabled), also a SMS notification will be sent if the SIM card is available:

Lost external power supply:
If the plug of SMS-Temperaturlarm 16-87T4 is disconnected from external AC power or lost of the AC power occurs, all operating on SMS-Temperaturlarm 16-87T4 is de-activated, including M button and all SMS commands. SMS-Temperaturlarm 16-87T4 will notify the user "Mains power lost".

Resume external power supply:
If the AC power of SMS-Temperaturlarm 16-87T4 is available again, the SMS notification will be sent to the user, i.e." Mains power restore". When the external power supply is resumed, the output of SMS-Temperaturlarm 16-87T4 will keep its previous working status. For example, if the output is switched on before the external power supply cut off, the output will be switched on when the external power supply is resumed.
If the power supply is switched on and off frequently, SMS-Temperaturlarm 16-87T4 will send reminding SMS messages.
The SMS notification upon external power supply changing can be disabled. (Refer to Chapter 3.8)

Chapter 3 Advanced settings

3.1 Define the users

3.1.1 User authorization level

All the settings of SMS-Temperaturlarm 16-87T4 can be set or adjusted via a SMS command.
There are two mobile phone user controlling levels:

Master user ("Master")**:**

Only one **Master** has authorization to use all features of SMS-Temperaturlarm 16-87T4.

In order to enable all the functions on the socket, the **Master** must store his/ her mobile number in the socket's memory. Only one **Master**'s mobile number is allowed for a socket.

Normal users ("User")**:**

There are four users have authorization to use commands of switch on or cut off the socket output, check socket temperature value or receive power status change alert.

The other mobile phone users have no authorization to use SMS-Temperaturlarm 16-87T4.

3.1.2 About the SMS Command

- **SMS command format:** #code#content#.
- The maximum digits that are allows for the phone number is sixteen.
- SMS-Temperaturlarm 16-87T4 will reply to the user after it receives the SMS command.

Note

- The "#" symbol must not be ignored when typing an SMS command.
- No allow any space within the commands.

3.1.3 Add a master number to the socket

Description

If SMS-Temperaturlarm 16-87T4 is being used for the first time, or SMS-Temperaturlarm 16-87T4 has been reset to factory settings, the Master user's number must be programmed into the socket.

Method

The user must edit and send the following SMS to socket via

his/her mobile phone (the phone number will be the **Master** number) in order to:

Add a master number to the socket: #00# **(2)**

☺ **Successful SMS reply**

Welcome to use SMS-Temperaturlarm 16-87T4.
Your Password is:1234..

☹ **Failed SMS reply**

If a user tries to add another **Master** again, SMS-Temperaturlarm 16-87T4 will send a notification via SMS stating "The master already exists.". The Master number should be changed. (Refer to Chapter 3.1.4)

3.1.4 Change the master number

Method

Method 1:

Master sends following SMS message in order to:

Change the master number: #14#***NewMasterNumber*** **(3)**

- ***NewMasterNumber*** should be the new Master mobile phone number.

Method 2:

SMS-Temperaturlarm 16-87T4 should be reset to factory settings to remove old Master number before setting the new one.

☺ **Successful SMS reply**

New master number set successfully.
Successful SMS reply will be sent to the new **Master**. Then the old **Master** number will not be able to control SMS-Temperaturlarm 16-87T4 anymore.

3.1.5 Add a user number

Up to 4 users can be stored on one socket.

Users have the authority to send SMS command to switch on or cut off the SMS-Temperaturlarm 16-87T4 or slave socket SMS-Temperaturlarm 16-87T4R output. The users should remember and safeguard the socket's SIM number.

Method

Master sends following SMS message in order to:

Add a user:

#06#***User-Number#***

Add several users:

#06#***User-Number1#***...#***User-Number4#***

- ***User-Number*** should be the User's mobile phone number.

☺ **Successful SMS reply**

#******# User numbers set successfully.

3.1.6 Check User's number

Master sending SMS to check user number: #06#

3.1.7 Delete User

Method

Master sends following SMS message in order to:

Delete a User: #15#***User-Number#***

Delete all Users: #15#

☺ **Successful SMS reply**

#******# User has been deleted.

☹ **Failed SMS reply**

#******# The User does not exist.

3.2 Change password

Method

Master sends following SMS message in order to:

Change the password: #04#***Oldpassword#Newpassword#***

- The ***password*** is a four digit number.
- The original ***password*** is 1234.

Successful SMS reply

New password is ****.

3.3 Switching on/off the socket output manually

Description

- When the socket output is switching on, SMS-Temperaturlarm 16-87T4 offers power supply for electronic appliance which being connected with it; the power LED is lighted constantly. Otherwise, SMS-Temperaturlarm 16-87T4S has no power supply for electronic appliance and the Power LED is turned off.

3.3.1 Switching on/off by SMS

Method

The **Master** or User sends following SMS message in order to:

Switch on all sockets output: #01#

Only switch on SMS-Temperaturlarm 16-87T4 socket output: #01#***0***#

Send following SMS message in order to:

Cut off all sockets output: #02#

Only cut off SMS-Temperaturlarm 16-87T4 socket output: #02#***0***#

- SMS reply will be also sent to Master when User use these two commands to change the socket output successfully.

Successful SMS reply

Host status: ON, Temp: **C
S1 status: OFF, Temp: **C

S2 status: OFF, Temp: **C
S3 status: OFF, Temp: **C
S4 status: OFF, Temp: **C

3.3.2 Switching on/off by M button

Keep press **M** button on the SMS-Temperaturlarm 16-87T4 for half a second. The Power LED will turn on or off to indicate that SMS-Temperaturlarm 16-87T4 output is switching on or off.

3.4 Delay control the socket output

📖 **Description**

- The output of SMS-Temperaturlarm 16-87T4 can be set to delay switch on or off for a period with SMS commands.
- When the “delay control” function is applied, it do not allow to change the socket output manually, need to send SMS command #11#0# to disable delay control function before manually change socket status.
- When the “delayed switch on the socket” command is received and if the socket output is switched on, the socket output will be switched off immediately and be switch on again as the setting delayed time is reaching. Contrarily, if the socket output is switched off, the output will remain switching off until the setting delayed time is reaching.
- When the “delayed switch off the socket” command is received and if the socket output is switched on, the socket output will remain the switch on state and be switched off as the setting delayed time is reaching. If the socket output is switched off, it will be switched on immediately and switch off again when reaching the setting delayed time.

🏴 **Method**

Master sends following SMS message in order to:

Delay switching on SMS-Temperaturlarm 16-87T4 output after a

certain minutes:

#12#0#***Minutes***#1#

Delay switching on slave socket "S1" output after a certain minutes:

#12#S1#***Minutes***#1#

Delay switching off SMS-Temperaturlarm 16-87T4 output after a certain minutes:

#12#0#***Minutes***#0#

Delay switching off slave socket "S1" output after a certain minutes:

#12#S1#***Minutes***#0#

- ***Minutes*** are time parameters, its range is 1-720,

☺ **Successful SMS reply**

Name: Host
Delay control: function ON
Operation: delay turn ON
Time: ** minutes

3.5 Schedule control socket

3.5.1 Enable schedule control socket

📖 **Description**

- The output of SMS-Temperaturlarm 16-87T4 can be set to switch on for a duration and then be switch off after the duration.
- Once the schedule function activated, it will not allow to change socket status manually, user need to send SMS #19#0#0# or #19# to cancel schedule control function before change the socket status manually.

Method

Master sends following SMS message in order to:

Enable SMS-Temperaturlarm 16-87T4 schedule control function: #19#0#1# **(18)**

☺ **Successful SMS reply**

Name: Host
Schedule control: function ON
Operation: Turn ON.
Everyday
Setting time: 0800-2000

Then SMS-Temperaturlarm 16-87T4 will auto switching on or off the output according to the schedule settings.

3.5.2 Set time period to switch on the output

🕮 **Description**

After successful setting of time duration to switch on the socket output, the schedule parameter will be saved on the socket until SMS-Temperaturlarm 16-87T4 is reset to factory settings.

But the "schedule switch on the output" feature is applied only when schedule control function activated.

Method

Master sends following SMS message in order to:

Set time period to switch on the SMS-Temperaturlarm 16-87T4 output:

#20#0#***WorkDay#StartTime#EndTime#*** **(19)**

- ***WorkDay***: one digit, the values lie in the range of "0" to "8". The following table contains the descriptions of each value:

Value	Corresponding day
0	Everyday
1	Monday
2	Tuesday
3	Wednesday
4	Thursday

5	Friday
6	Saturday
7	Sunday
8	Monday to Friday

- ***StartTime*** and ***EndTime***: Be consists of 4 digits (hh:mm) and works on a 24 hour clock. The ***StartTime*** and ***EndTime*** should be in the same day, and the ***EndTime*** must be later than ***StartTime***.
- The socket output will switch on at the ***StartTime*** and cut off at the ***EndTime***.
- For example: #20#0#1#0000#2130# , 0 means the SMS-Temperaturlarm 16-87T4S, 0000 means time 00:00(hh:mm)AM, 2130 means time 9:30PM.

☺ **Successful SMS reply**

Name: Host
Schedule control: function OFF
Operation: Turn ON.
Everyday
Setting time: 0000-2130

3.5.3 Disable schedule control function

Method

Master sends following SMS message in order to:

Disable SMS-Temperaturlarm 16-87T4 schedule control function: #19#0#0# **(20)**

Disable all sockets schedule control function: #19# **(20)**

3.6 Auto-control the socket output by temperature

3.6.1 Enable auto-controlled by temperature

📖 **Description**

- The external temperature sensor must be inserted into the **I/O** port of SMS-Temperaturlarm 16-87T4. The output status of the socket can be controlled by the environmental temperature automatically.
- Once auto-control by temperature function activated, it will not allow to change the socket status, need to de-activated temperature control function before change the socket output manually.
- There are warming mode and cooling mode for temperature control function. In warming mode, socket will auto turn on when temperature lower than smaller temperature value, and turn off when higher than bigger temperature value; Cooling mode, socket will auto turn on when temperature higher than bigger temperature value and turn off when temperature lower than smaller value.
- The command format is #24#socket number#mode#low-temp#high-temp#; SMS-Temperaturlarm 16-87T4 socket number is 0, slave socket need to fill with socket name. warming mode is 1, cooling mode is 2; for example #24#0#1#15#25#, it means SimPa-T4 temperature control function ON, work with warming mode, and turn on socket when temperature lower than 15 degree, turn off socket when temperature higher than 25 degree.
-

🏴 **Method**

Master sends following SMS message in order to:

Enable SMS-Temperaturlarm 16-87T4 temperature control function:

#20#0#mode#low-temp#high-temp# **(21)**

☺ **Successful SMS reply**

Name: Host

Temp control: function ON

Mode: Heat/ Cooling
Temp range: 17-25

Then SMS-Temperaturlarm 16-87T4 can switch on or off the output automatically according to the temperature range setting.

3.6.2 Set temperature range to switch on/off the output

📖 **Description**

After successful setting of temperature range, the temperature parameter will be saved on the socket until SMS-Temperaturlarm 16-87T4 is reset to factory settings.

🏴 **Method**

The **Master** sends following SMS message in order to:

3.6.3 Disable temperature control function

🏴 **Method**

Master sends following SMS message in order to:

Disable SMS-Temperaturlarm 16-87T4 temperature control function:
#23#0#0# **(23)**
Disable all sockets temperature control function: #23#

☺ **Successful SMS reply**

Name: Host
Temp control: function OFF
Mode: Heat/ Cooling
Temp range: 17-25

Or: All socket temp control function OFF.

3.7 Temperature alarm

3.7.1 Over-temperature alarm

📖 **Description**

A range of temperature can be pre-set onto the socket. In this case, if the surroundings temperature is detected out of the pre-set temperature range, the SMS-Temperaturlarm 16-87T4 will auto-send the SMS alarm message to master's mobile phone.
This feature depends on the temperature sensor.

Method

Master sends following SMS message in order to:

Enable SMS-Temperaturlarm 16-87T4 over-temperature alarm: #21#0#1# **(24)**

Set limits of temperature: #22#0#*MinTemp*#*MaxTemp*# **(25)**

- **MinTemp** and **MaxTemp**: The values can be set within the range of -10 to 50 centigrade degree.
  Default **MinTemp** is 20 and **MaxTemp** is 30 centigrade degree.

Disable the alarm upon going beyond limits temperature:
#21#0#0# **(26)**

Successful SMS reply

Name: Host
Current temp: 20
Temp alert: function OFF
Temp range: 17-25

3.7.2 Temperature rapid-changing alarm

Description

A time period value and temperature changing value can be pre-set onto the socket. In this case, if the surroundings temperature change to the pre-set value within the pre-set time period, a SMS alarm message will be auto-sent to master's mobile phone.
This feature depends on the temperature sensor.

Method

Master sends following SMS message in order to:

Enable the temperature rapid changing alarm: #25#1# **(27)**

Set time period and temperature changing value:

#26#*Temp*#*Time*# **(28)**

- **Temp:** The values lie in the range of 1 to 50 centigrade degree.
- **Time:** The values lie in the range of 1 to 300 minutes.
- Default Temp is 5 degree and Time is 1 minute.

Disable the temperature rapid changing alarm: #25#0# **(29)**

☺ **Successful SMS reply**

Rapid temperature changing: function OFF
Delta: %d
Time: %d seconds

3.8 SMS notification upon the socket output changing

🕮 **Description**

SMS-Temperaturlarm 16-87T4 will default notify the Master and User when the state of the socket output is changed with a SMS notification. The Master can enable/disable this SMS notification.

Method

Master sends following SMS message in order to:

SMS notification upon the socket output changing (Default):

#03#1# **(30)**

No SMS notification upon the socket output changing:

#03#0# **(31)**

☺ **Successful SMS reply**

Set no SMS notification when socket output changed.
Set SMS notification once socket output changed.

3.9 SMS notification upon main power supply changing

🕮 **Description**

SMS-Temperaturlarm 16-87T4 will default notify the user when the state of the main power supply is changed with a SMS

notification. For example:

Mains power lost.

Mains power restore.

Master can enable/disable this SMS notification.

Method

Master sends following SMS message in order to set:

SMS notification upon the power supply changing (Default):

#05#1# **(32)**

No SMS notification upon the power supply changing: #05#0# **(33)**

Successful SMS reply

(No) SMS notification upon main electricity supply changing.

3.9 SMS notification to User

SMS-Temperaturlarm 16-87T4 will sending SMS when mains power lost/restore, temperature alert or other information. Default sending the SMS to Master and Users. Master can change the setting to cancel SMS to User.

Method

Master sends following SMS message in order to:

Enable SMS alert to User #16#1#

Disable SMS alert to User #16#0#

Successful SMS reply

(Without) SMS notification to User.

3.10 “Beep” warning tone

Description

A “Beep” warning tone will be sounded if the work state of SMS-Temperaturlarm 16-87T4 is changed. The “Beep” warning tone is default turning off. The **Master** can enable it by sending SMS command.

Method

Master sends following SMS message in order to:

Enable the "Beep" warning tone: #13#1#

Disaable the "Beep" warning tone (Default): #13#0#

☺ **Successful SMS reply**

Beep alarm activated/de-activated.

3.11 Check status

Method

Master sends following SMS message in order to:

Check socket operating status: #07# **(36)**

After receiving the SMS commands, SMS-Temperaturlarm 16-87T4 will reply one SMS message of socket status checking:

Host Status: ON/OFF Temp: 23C
S1 Status: Temp:
S2 Status: Temp:
S3 Status: Temp:
S4 Status: Temp:

Check paired slave socket: #10#

The SMS-Temperaturlarm 16-87T4 will reply SMS:
Registered wireless socket: ****, ****, ****, ****

Check "delayed control socket" parameters: #34# **(38)**

SMS-Temperaturlarm 16-87T4 will reply one SMS message of delay control function parameters checking:

Name: Host
Delay control: function ON
Operation: delay turn ON
Time: ** minutes

Check "Schedule control socket" parameters: #33# **(39)**

SMS-Temperaturlarm 16-87T4 will reply one SMS message of "Schedule control socket" parameters:

Name: Host
Schedule control: function OFF
Operation: Turn ON.
Everyday
Setting time: 0800-2000

Check "Temperature control" parameters: #32# **(40)**

SMS-Temperaturlarm 16-87T4 will reply one SMS message of temperature parameters checking:

Name: Host
Temp control: function ON
Mode: Heat/ Cooling
Temp range: 17-25

Check "over-temperature alarm limits" parameters: #35# **(42)**

After receiving the SMS commands, SMS-Temperaturlarm 16-87T4 will reply one SMS message of parameters. It means SMS alarm message will be sent upon temperature reaches MinTemp or MaxTemp centigrade degree:

Name: Host
Current temp: 20
Temp alert: function ON
Temp range: 17-25

3.12 Resetting the socket

Description

- This function resets all programmed settings to their original values, including cleaning all user number, timing parameter and temperature parameter.
- If the setting status is wrong or the malfunctions can't be corrected, users can restore the socket to its original status to make it work normally.

Note

This function needs to be used carefully as it also erases all setting

values.

Method

Method 1: Press the side **M** button of the device for 5 seconds.

Method 2: Master sends following SMS message to SMS-Temperaturlarm 16-87T4 in order to:

Reset the socket: #08#password# **(43)**

☺ **Successful SMS reply**

Reset the socket to factory setting successfully.

A long “Beep” tone (if enabled) will be heard and it means resetting the socket successfully.

Chapter 4 Maintenance

- If SMS-Temperaturlarm 16-87T4 does not in use for long time, it should be powered off.

- Store and use the remote socket in suitable temperature. Too high or too low temperature will likely to damage the socket.

- Try to keep the SMS-Temperaturlarm 16-87T4 and all its accessories dry. Do not store and use it in the bathroom, or other place with high humidity. Do not allow pour water or other liquids into the socket, otherwise, it might cause malfunctions.

- Do not store and use the socket in dusty.

- Do not use alcohol, acetone and other similar solvents to clean it. Wipe it with soft-wet cloth.

- Do not attempt to open it except as instructed. If the socket does not work normally, try to resolve it as the guide of the "general troubleshooting", if to the problem can not be solved, contact with the dealer immediately.

Chapter 5 General Troubleshooting

No.	General Trouble	Possible Reason	Solution
1	Power indicator light turns off	No power input.	Check SMS-Temperaturlarm 16-87T4 external AC power is available.
2	GSM indicator light turns off	Can't find or identify the SIM card. The power switch is OFF.	SIM card no install properly: Power off the socket and check it again. Power on the socket.
3	Socket output cannot be changed by M button.	No power input. Delay control, schedule control or temp control is activated.	Check SMS-Temperaturlarm 16-87T4 external AC power is available. Cancel delay control, schedule control or temp control function.
4	All functions disable (Indicator is working)	Caller ID presentation do not active, insufficient fee of the SIM card.	Contact network provider to active SIM card function. Pay for the card.
5	Socket didn't response of any operation.	SMS-Temperaturlarm 16-87T4 work abnormally.	Plug out the socket and wait 10 minutes until power empty; check SIM card, or reset factory setting.
6	After power	Network signal weak	If mobile phone's

No.	General Trouble	Possible Reason	Solution
	on the socket, GSM indicator keeps flashing.	or network busy.	signal is weak too, place the socket at other place with strong signal and try again.
		SIM card PIN code actives.	Close the PIN code.
		SIM card invalid.	Contact with local operator to check of it.
7	Master number already exists.	Other master is already set in the socket.	Change Master number or recover to factory default setting.
8	Invalid format. Please check and try again.	Invalid command.	Refer to the user manual.
9	No authorization user		Use the Master mobile phone to try the command again.

Note: If the problem can't be solved with above guidelines, contact to your local distributor or after service center.

Chapter 6 Main Technical Parameters

Input power socket	110~230V/50HZ, CEE 7/7 hybrid Schuko/French/American/Australia plug
Output power socket	110~ 230V/50HZ, 230V/30A(30s), 16A long-duration, CEE7/4 German “Schuko”/ French/ American/Australia
Operating temperature	-10□~+50□
Store temperature	-20□~+60□
Relative humidity	10-90%，without condensation
Communication protocols	GSM PHASE 2/2+ (including data operation)
Data interface	GSM SIM 1.8V/3.0V socket
Frequency between SMS-Temperaturlarm	433Mhz

16-87T4 and slave socket	
External temperature sensor	-10□~50□
GSM working band	850/900/1800/1900Mhz

Appendix: SMS commands list

Category	Function	Command
Define the users	Add a Master number to the socket	#00#
	Change the Master number	#14#***NewMasterNumber#***
	Add a User	#06#***User-Number#***
	Add several Users	#06#***User-Number1#*** ...***#User-Number4#***
	Check Users number	#06#
	Delete a User	#15#***User-Number#***
	Delete all Users	#15#
	Change the password	#04#***Oldpassword#*** ***Newpassword#***
Slave socket pair	Pair slave socket S1	#10#S1#
Switching on/off socket output	Switches on all sockets output	#01#
	Switches on SMS-Temperaturlarm 16-87T4 output	#01#0#
	Switches on slave socket “S1” output	#01#S1#
	Cuts off all sockets output	#02#
	Cuts off SMS-Temperaturlarm	#02#0#

Category	Function	Command
	16-87T4 output	
	Cuts off slave socket “S1” output	#02#S1#
Delay control	Delay switching on SMS-Temperaturlarm 16-87T4 output after a certain minutes	#12#0#***Minutes***#1#
	Delay switching on Slave socket S1 output after a certain minutes	#12#S1#***Minutes***#1#
	Delay switching off SMS-Temperaturlarm 16-87T4 after a certain minutes	#12#0#***Minutes***#0#
	Delay switching off Slave socket S1 after a certain minutes	#12#S1#***Minutes***#0#
Schedule control	Enable timing switch on SMS-Temperaturlarm 16-87T4 output	#19#0#1#
	Enable timing switch on Slave socket S1 output	#19#S1#1#

Category	Function	Command
	Set time period to switch on SMS-Temperaturlarm 16-87T4 output	#20#0#***WorkDay***# ***StartTime#EndTime***#
	Set time period to switch on slave socket S1 output	#20#S1#***WorkDay***# ***StartTime#EndTime***#
	Disable all sockets schedule control	#19#
	Disable SMS-Temperaturlarm 16-87T4 schedule control	#19#0#0#
	Disable Slave socket S1 schedule control	#19#S1#0#
Temperature control	Enable SMS-Temperaturlarm 16-87T4 Warming mode temp control	#24#0#1#low-temp#high-temp#
	Enable Slave socket S1 Warming mode temp control	#24#S1#1#low-temp#high-temp#
	Enable SMS-Temperaturlarm 16-87T4 Cooling mode temp control	#24#0#2#low-temp#high-temp#
	Enable Slave socket S1 Cooling mode temp control	#24#S1#2#low-temp#high-temp#

Category	Function	Command
	Set temperature range to switch on/off the output	#159#***Mode*#*LowTemp*#*HighTemp*#**
	Disable SMS-Temperaturlarm 16-87T4 temperature control	#23#0#0#
	Disable Slave socket S1 temperature control	#23#S1#0#
	Disable all sockets temperature control	#23#
Over-temperature alarm	Enable SMS-Temperaturlarm 16-87T4 over-temperature alarm	#21#0#1#
	Enable slave socket S1 over-temperature alarm	#21#S1#1#
	Set SMS-Temperaturlarm 16-87T4 limits of temperature	#22#0#***MinTemp*#*MaxTemp*#**
	Set Slave socket S1 limits of temperature	#22#S1#***MinTemp*#*MaxTemp*#**
	Disable SMS-Temperaturlarm 16-87T4	#21#0#0#

Category	Function	Command
	over-temperature alarm	
	Disable Slave socket S1 over-temperature alarm	#21#S1#0#
	Disable all sockets over-temperature alarm	#21#
Temperature rapid-changing alarm	Enable the temperature rapid-changing alarm	#25#1#
	Set time period and temperature changing value	#26#***Temp***#***Time***#
	Disable the temperature rapid-changing alarm	#25#0#
SMS notification	Alert SMS to User	#16#1#
	No alert SMS to User	#16#0#
	SMS notification upon the socket output changing (Default)	#03#1#
	No SMS notification upon the socket output changing	#03#0#
	SMS notification upon the power supply changing (Default)	#05#1#
	No SMS notification	#05#0#

Category	Function	Command
	upon the power supply changing	
“Beep” warning tone	Enable the “Beep” warning tone	#13#1#
	Disaable the “Beep” warning tone (Default)	#13#0#
Check status	Check paired slaved socket	#10#
	Check socket operating status	#07#

Category	Function	Command
	Check SMS-Temperaturlarm 16-87T4 “Delayed Control” parameters	#34#
	Check Slave socket S1 “Delayed Control” parameters	#34#S1#
	Check SMS-Temperaturlarm 16-87T4 “Schedule control” parameters	#33#
	Check slave socket S1“Schedule control” parameters	#33#S1#
	Check SMS-Temperaturlarm 16-87T4 “Temperature control” parameters	#32#
	Check slave socket S1 “Temperature control” parameters	#32#S1#
	Check SMS-Temperaturlarm 16-87T4 “temperature alert” parameters	#35#
	Check GSM signal	#27#
GSM signal alert	Enabled weak signal alert	#27#1#
	Disabled weak signal	#27#0#

Category	Function	Command
	alert	
Reset to factory settings	Reset the socket	#08#Password#