

**TUTA S30**  
**GSM Power Socket**

# **User Manual**

## TUTA S30 GSM Power Socket

Thank you for purchasing the TUTA S30.

The TUTA S30 GSM power socket 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 (Short Message System) command or local controlled by pressing button. It is an intelligent power supply socket controlled by users' mobile phone at anytime and anywhere.

TUTA S30 is suitable for controlling electrical appliances which power consumption less than 3000W in household or office. It is universal for all kinds of indoor power supply sockets.

With extended-connected temperature sensor, TUTA S30 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, a SMS notification will be sent to master's mobile phone if TUTA S30 detects the rapid-changing or the reaching of pre-set alert value of surroundings temperature.

TUTA S30 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 for **TUTA S30** model.

Details of the functioning and advanced operation of this socket are described in this instruction manual.

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## **WARNING**

- 1. Purchase a GSM SIM card (mobile phone card) from GSM network service and install it in the socket. This SIM card number is referred as TUTA S30 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 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**

- λ 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, industrial appliances, large heaters and refrigerators.
- λ 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.
- λ The power consumption of the appliances connected with the socket cannot exceed 3000W and the current cannot exceed 15A.
- λ The electrical appliance which power consumption is higher than 1500W must be grounded.
- λ Do not make two plugs of socket short circuit.
- λ Do not touch the socket jack by any metal objects or hand.
- λ This socket was designed for indoor use. Don't use it in wet, chemically aggressive or dusty environment.
- λ Do not open the case unless maintenance needed.
- λ Do not keep shaking or fall down this socket, otherwise it can be damaged.
- λ 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.
- λ Switch off this socket and mobile phone when entering areas marked "Explosive", "Might explode", "Closed wireless transceiver sockets" etc.
- λ Do not cast this socket in a fire, as this may cause explosion.
- λ 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.

- λ 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.i-tuta.com>. 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.
3. We hold no responsibility for the illegal use of this socket.
4. We hold no responsibility for any loss of income or any special, incidental, consequential or indirect damages howsoever caused.
5. The contents of this document are provided "as is". Except as required by applicable law, no warranties of any kind, either expressed or implied, including, but not limited to the accuracy, reliability or contents of this document. We reserve the right to revise this document or withdraw it at any time without prior notice.

## Chapter 1 Features and accessories

### 1.1 Main function

- λ **This socket uses a GSM SIM card.**
- λ **Remotely operate by SMS command:** The socket be controlled and set by sending SMS commands.
- λ **Input:** 110V-250V/50Hz.
- λ **Output:** Max.15A for long-duration operation.
- λ **Relay:** 30A/250V relay with two working status power on/off for output outlet.
- λ **M button:** To manual control output power on/off.
- λ **Delayed control socket output.**
- λ **Auto operates by preset schedule:** Fixing-time control output power on/off.
- λ **External temperature sensor supported:** Send environmental temperature SMS to mobile phone.

- λ **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.
- λ **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.
- λ **Support 5 mobile phone users.**
- λ **Auto time-synchronization.**
- λ **SMS notification upon external power source changing.**

## 1.2 Package contents

- |                       |        |
|-----------------------|--------|
| 1. GSM power socket   | 1 unit |
| 2. Temperature sensor | 1 unit |
| 3. User manual        | 1 unit |

## 1.3 Sockets instructions

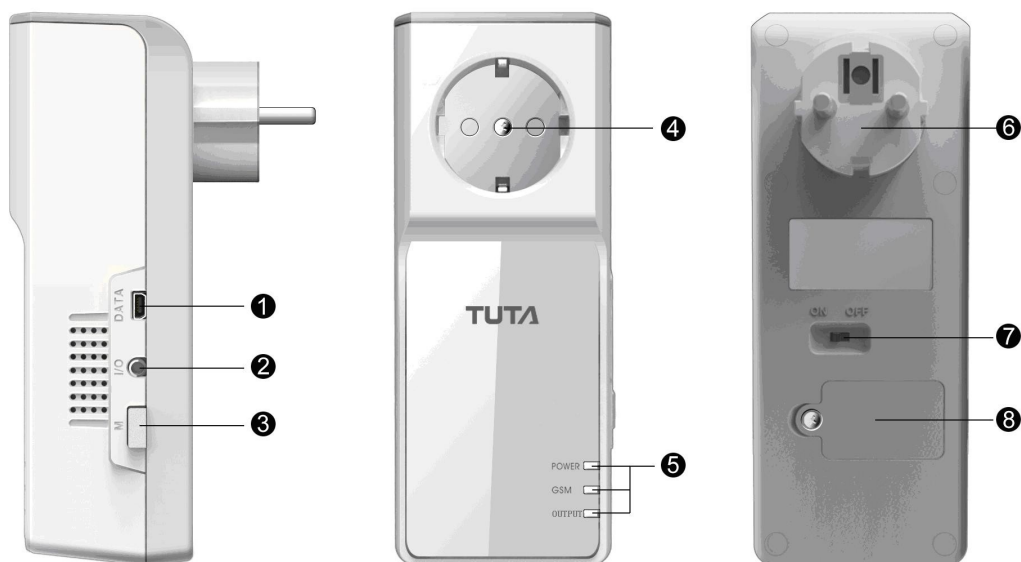


Figure 1: TUTA S30 instructions

- |                            |   |
|----------------------------|---|
| 1. Data port               | 5. Indicator light (Power, GSM, Output) |
| 2. Temperature sensor port | 6. Socket plugs                         |
| 3. M button                | 7. Power switch                         |

4. Electrical outlet

8. SIM card holder



Figure 2: Temperature sensor Instruction

1. Standard 3.5mm interface (put into 2 of Figure1)
2. Temperature sensor

## 1.4 Light indicator and “Beep” warning tone

Indicator	Action	Status
Power (Green) light	Turning off	No power supply input
	Constant light	Has power supply input
GSM (Blue) light	Turning off	Not installed SIM card, or the power switch of socket is “OFF”.
	Flash	Be busy or searching GSM network.
	Constant light	Successfully load to GSM network.
Output (Red) light	Constant light	The socket outlet has power supply.
	Turning off	The socket outlet cuts power supply.
“Beep” warning tone (Default turning off)	One time	The socket outlet changes power supply status.
	Several times	TUTA S30 lost external power supply.
	Long Beep	TUTA S30 is successfully register GSM network, or it is successfully reset to its factory settings.

Note: The “Beep” warning tone can be turn on or turn off by SMS command. Refer to Chapter 3.9 for details.

## Chapter 2 Quick start

### 2.1 Install the SIM card and temperature sensor

- Turn the power switch to “OFF” position.
- Loosen the screw and open the socket’s SIM cover; you will see a SIM card holder.



- Push the metallic cover of the holder to “OPEN” direction and open the SIM card holder.
- Put the SIM card on the card holder, ensuring that the beveled corner is toward the beveled corner of the SIM holder and the golden contact area is facing downwards.
- Cover back the metallic cover and push it to “LOCK” direction. The SIM card will be fixed in the holder.
- Screw the SIM cover back.
- Insert the temperature sensor into the **I/O** port until it is **seized**.

## 2.2 GSM Power on/ off

### Power on:

1. Turn the power switch to “On” position (See 7 on Figure1).
2. Plug the TUTA S30 in an AC power socket (See 6 on Figure1).  
The blue light will be flashing slowly for about 20 seconds, then blue light be on constantly and a long “Beep” tone can be heard (if “Beep” warning tone is enabled).

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

3. Insert the plug of electronic appliance in the TUTA S30 electrical outlet (See 4 on Figure1).
4. **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)

### Power off:

1. Turn the power switch to “Off” position. The blue light turns off.
2. The socket outlet can work as a normal power socket. TUTA S30 can not be controlled by SMS commands. M button is disabled.

### **Note:**

1. If the GSM indicator light is not constant lights, which imply the SIM card working normally, 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 TUTA S30 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 TUTA-S30.

Your Password is:1234.

## 2.4 The regulation of time

### 🔔 **Important note**

If TUTA S30 is being used for the first time, or it has been reset, the **Master** user must adjust the socket time according to the current time of SMS center. Otherwise, TUTA S30 will use the original time from 00:00:00, 1<sup>st</sup>.Jan.2004.

### ✂ **Method**

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

**Regulate the socket time:**    #152#SIMCardNumber#            (1)

- The **SIMCardNumber** should be the SIM card number of TUTA S30.

### ☺ **Successful SMS reply**

The socket current time is yyyy/mm/dd hh:mm.

## 2.5 Socket output switching on/off

### ✂ **Method**

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

**Method 2:**

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

**Switch on the socket output:**            #01#

**Switch off the socket output:**            #02#

## ☺ **Successful SMS reply**

Status: ON/OFF

Temp:23

Temp control: function ON/OFF

Schedule control: function ON/OFF

Delay control: function OFF

## **2.6 External power supply notification**

TUTA S30 will notify the user when the external power changes. The “Beep, Beep...” tones will be heard (if enabled), also a SMS notification will be sent if the SIM card is available:

### **Lost external power supply:**

If the plug of TUTA S30 is disconnected from external AC power or lost of the AC power occurs, all operating on TUTA S30 is de-activated, including M button and all SMS commands. TUTA S30 will notify the user “Main electricity supply lost Temp:\*\*”.

### **Resume external power supply:**

If the AC power of TUTA S30 is available again, the SMS notification will be sent to the user, i.e.” Main electricity supply restore Status: ON/OFF Temp:\*\*”

When the external power supply is resumed, the output of TUTA S30 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, TUTA S30 will send reminding SMS messages.

## **Chapter 3 Advanced settings**

### **3.1 Define the users**

#### **3.1.1 User authorization level**

All the settings of TUTA S30 can be set or adjusted via a SMS command.

There are two mobile phone user controlling levels:

### **Master** user:

Only one **Master** user has authorization to use all features of TUTA S30.

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

### **Family** users:

There are four **Family** users have authorization to use two commands of switch on or cut off the socket output.

**The other mobile phone users** have no authorization to use TUTA S30.

## 3.1.2 About the SMS Command

- **Master** user's SMS command format: #code#content#.
- **Family** users' SMS command format: #code#content#password#.
- The password must be a four-digit number.
- The original password is 1234.
- The maximum digits that are allows for the phone number is sixteen.
- TUTA S30 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 TUTA S30 is being used for the first time, or TUTA S30 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 TUTA-S30.  
Your Password is:1234..

### ☹ **Failed SMS reply**

If a user tries to add another **Master** user again, TUTA S30 will send a notification via SMS stating “The master user already exists.”. The Master number should be changed. (Refer to Chapter 3.1.4)

## 3.1.4 Change the master number

### ✂ **Method**

#### Method 1:

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

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

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

#### Method 2:

TUTA S30 should be reset to factory settings to remove old Master number before setting the new one. (Refer to Chapter 3.11)

### ☺ **Successful SMS reply**

New master number set successfully.

Successful SMS reply will be sent to the new **Master** user. Then the old **Master** user’s number will not be able to control TUTA S30 anymore.

## 3.1.5 Add a family number

Up to 4 **family** users’ number can be stored on one socket.

**Family** users have the authority to send SMS command to switch on or cut off the TUTA S30 output. The **family** users should remember and safeguard the socket’s SIM number.

### ✂ **Method**

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

**Add a family number:** #06#*FamilyNumber*# (4)

**Add several family numbers:** #06#*FamilyNumber1*#...#*FamilyNumber4*# (5)

- *FamilyNumber* should be the **Family** user’s mobile phone number.

### ☺ **Successful SMS reply**

#\*\*\*\*\*# Family numbers set successfully.

### 3.1.6 Check family user's number

Refer to Chapter 3.10 Check status.

### 3.1.7 Delete family number

#### Method

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

**Delete a family number:**        #113#FamilyNumber#                (6)

**Delete several family numbers simultaneously:**                (7)

#113#FamilyNumber1#...#FamilyNumber4#

**Delete all family numbers:**        #113#                                (8)

#### **Successful SMS reply**

#\*\*\*\*\*# Family number has been deleted.

#### **Failed SMS reply**

#\*\*\*\*\*# The family number does not exist.

## 3.2 Switching on/off the socket output manually

#### Description

- When the socket output is switching on, TUTA S30 offers power supply for electronic appliance which being connected with it; the red indicator light is lighted constantly. Otherwise, TUTA S30 has no power supply for electronic appliance and the red light is turned off.
- **Note:** If the socket output status is changed manually (including pressing the **M** button, sending SMS, making phone call), the preset timing, delaying or temperature control of the socket will be **invalid** automatically and a SMS notification message will be sent to the Master, but the setting time range and temperature range parameters will be saved until TUTA S30 is reset to factory settings.

### 3.2.1 Switching on/off by SMS

#### Method

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

**Switch on the socket output manually:** `#01#` (9)

**Cut off the socket output manually:** `#02#` (10)

The **Family** users send following SMS message in order to:

**Switch on the socket output manually:** `#01#Password#` (11)

**Cut off the socket output manually:** `#02#Password#` (12)

- **Password** should be 4 digits password number. Default 1234.
- SMS reply will be also sent to **Master** user when **Family** users use these two commands to change the socket output successfully.

### ☺ **Successful SMS reply**

Status: ON/OFF

Temp:\*\*

Temp control: function ON/OFF

Schedule control: function ON/OFF

Delay control: function ON/OFF

## 3.2.2 Switching on/off by M button

Keep press **M** button on the TUTA S30 for half a second. The OUTPUT indicator light will turn on or off to indicate that TUTA S30 output is switching on or off.

The SMS reply is same with Chapter 3.2.1.

## 3.2.3 Switching on/off by calling

### 📖 **Description**

If the **Master** user calls TUTA S30, the socket output will be switched on or cut off automatically when the user hears the ring tone in the phone. The calling will be hung up automatically if the user doesn't hang up the call.

### ✂ **Method**

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

**Enable switching on/off the output by calling:** `#18#1#` (13)

**Disable switching on/off the output by calling (Default):** `#18#0#` (14)

### ☺ **Successful SMS reply**

Control the socket power output status by calling activated /de-activated.

### 3.3 Delayed-switch on/off the socket output

#### Description

- The output of TUTA S30 can be set to delay switch on or off for a period with SMS commands.
- When the “delayed-switch on/off the socket” function is applied, the preset “timed switch on the output” function will be invalid at once.
- 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. After switching on the output, the following SMS reply will be sent:

Status: ON

Delay control: function OFF

- When the “delayed switch off the socket” command is received and if the 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 be switch off again when reaching the setting delayed time. After switching off the socket output, the following SMS reply will be sent:

Status: OFF

Delay control: function OFF

#### Method

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

**Delay switching on the output after a certain minutes: #138#1#*Minutes*# (15)**

**Delay switching off the output after a certain minutes: #138#0#*Minutes*# (16)**

- ***Minutes*** are time parameters, its range is 0-720,
- When ***Minutes*** is 0, the “delayed switch on/off the socket” function will be invalid, but the current output status won’t be changed.

#### Successful SMS reply

Status: ON/OFF

Output will switch off/on after \* minutes.



## 3.4 Timed switching on the socket output

### 3.4.1 Enable timing switching on the output

#### Description

- The output of TUTA S30 can be set to switch on for a duration and then be switch off after the duration.
- If the socket output status is changed manually (including pressing **M** button, sending SMS and making phone call), the preset timing, delaying or temperature control of the socket will be invalid automatically, but the setting time range parameters will be saved until TUTA S30 is reset to factory settings. If these functions need to be restarted, the following SMS commands must be set: Timing #128#1#, Temperature control #159#1#, “delayed switch on/off the socket” commands need to be reset.

#### Method

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

**Enable timing switch on the output:** #128#1# (17)

#### Successful SMS reply

Schedule control: function ON

*WorkDay, StartTime-EndTime*

If the value of the “*WorkDay, StartTime, EndTime*” on the SMS reply are all 0, it means the time duration has not been set. (Refer to 3.4.2)

Then TUTA S30 will keep switching on or off the output automatically according to the schedule settings.

### 3.4.2 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 TUTA S30 is reset to factory settings.

But the “timed switch on the output” feature is applied only when command 17 be set.

## ✦ Method

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

**Set time period to switch on the output:** (18)

**#129#WorkDay#StartTime#EndTime#**

- **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: #129#1#0000#2130# , 0000 means time 00:00(hh:mm)AM, 2130 means time 9:30PM.

## ☺ Successful SMS reply

Schedule control: function ON/OFF

*WorkDay, StartTime-EndTime*

### 3.4.3 Disable timing switching on the output

## ✦ Method

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

**Disable timing switch on the output:** #128#0# (19)

## ☺ Successful SMS reply

Schedule control: function OFF

*WorkDay, StartTime-EndTime.*

## 3.5 Auto-control the socket output by temperature

### 3.5.1 Enable auto-controlled by temperature

#### Description

- The external temperature sensor must be inserted into the **I/O** port of TUTA S30. The output status of the socket can be controlled by the environmental temperature automatically.
- If users don't open the "timed switch on the socket" or "delayed switch on/off the socket" functions, the socket will control to switch on or cut off the output according to temperature setting.
- If users open the "timed switch on the socket" or "delayed switch on/off the socket" functions, the temperature control function will only be valid when power output is switch on (including timed switch on or delayed switch on time period).
- For example: TUTA S30 is used for the power control of the heating apparatus. If users set the socket output on when indoor temperature is bellow 20 degrees and off when indoor temperature is above 28 degrees. Meanwhile, users set the TUTA S30 output is on from 9am to 5pm. In this case, the socket will control to switch on or off the output according to indoor temperature automatically from 9am to 5pm duration.

#### Method

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

**Enable auto-control the output by temperature: #159#1# (20)**

#### Successful SMS reply

Status: ON/OFF

Temp control: function ON

Temp: \*\*

Mode: Heating/Cooling

Range: *LowTemp ~ HighTemp*

Then TUTA S30 can switch on or off the output automatically according to the temperature range setting.

## 3.5.2 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 TUTA S30 is reset to factory settings.

But the “Auto-controlled by temperature” feature is applied only when command 20 be set.

### Method

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

**Set temperature range to switch on/off the output: (21)**

**#159#Mode#LowTemp#HighTemp#**

- **Mode** is the control selection:  
For coldness, mode=1. For warmness, mode=0.
- **LowTemp** and **HighTemp** means temperature value, the range is -10 to 50 centigrade degree, if **LowTemp** equals to **HighTemp**, constant temperature control will be activated.
- Temperature unit is degree Celsius.
- Example 1: set commands: #159#0#10#20#, if the environmental temperature is 5 degrees (bellow the limitation of 10 degrees in the command), the socket output will be switched on to power heating apparatus; and if the environmental temperature is 24 degrees (above the limitation of 20 degrees in the command), the socket output will be switched off and the heating apparatus stops working;
- Example 2: set commands: #159#1#10#20#, if the environmental temperature is 26 degrees (above the limitation of 20 degrees in the command), the socket output will be switched on to power cooling apparatus; and when the environmental temperature is 7 degrees (bellow the limitation of 10 degrees in the command), the socket output will be off, cooling apparatus stops working.

### Successful SMS reply

Status: ON/OFF

Temp control: function ON/OFF

Temp: \*\*

Mode: Heating/Cooling

Range: *LowTemp* ~ *HighTemp*

### 3.5.3 Disable auto-controlled by temperature

#### Method

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

**Disable auto-control the output by temperature:** #159#0# (22)

#### Successful SMS reply

Status: ON/OFF

Temp control: function OFF

Temp: \*\*

Mode: Heating/Cooling

Range: *LowTemp* ~ *HighTemp*

## 3.6 Temperature alarm

### 3.6.1 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 TUTA S30 will auto-send the SMS alarm message to master's mobile phone.

This feature depends on the temperature sensor.

#### Method

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

**Enable over-temperature alarm:** #170#1# (23)

**Set limits of temperature:** #170#*MinTemp*#*MaxTemp*# (24)

- **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:** #170#0# (25)

#### Successful SMS reply

Temperature alert: function ON/OFF

Min Temp.:\*\*

Max Temp.: \*\*.

## 3.6.2 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

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

**Enable the temperature rapid changing alarm:** #160#1# (26)

**Set time period and temperature changing value:** #160#Temp#Time# (27)

- **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 2 degree and **Time** is 1 minute.

**Disable the temperature rapid changing alarm:** #160#0# (28)

### Successful SMS reply

Fast temperature changing.: function ON/OFF

Delta:\*\*

Time:\* minutes

## 3.7 SMS notification upon the socket output changing

### Description

TUTA S30 will default notify the user when the state of the socket output is changed with a SMS notification. The **Master** user can enable/disable this SMS notification.

### Method

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

**SMS notification upon the socket output changing (Default): #11#1# (29)**

**No SMS notification upon the socket output changing: #11#0# (30)**

### ☺ **Successful SMS reply**

Set no SMS notification when socket output changed.

Set SMS notification once socket output changed.

## **3.8 SMS notification upon extension power supply**

### **changing**

#### **Description**

TUTA S30 will default notify the user when the state of the extension power supply is changed with a SMS notification. For example:

Main electricity supply lost

Temp:\*\*

or

Main electricity supply restore

Status: ON

Temp:\*\*

The **Master** user can enable/disable this SMS notification.

#### **Method**

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

**SMS notification upon the power supply changing (Default): #12#1# (31)**

**No SMS notification upon the power supply changing: #12#0# (32)**

### ☺ **Successful SMS reply**

(No) SMS notification upon main electricity supply changing.

## **3.9 “Beep” warning tone**

#### **Description**

A “Beep” warning tone will be sounded if the work state of TUTA S30 is changed.

The “Beep” warning tone is default turning off. The **Master** user can enable it by sending SMS command.

### Method

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

**Enable the “Beep” warning tone:**                    #19#1#                    **(33)**

**Disaable the “Beep” warning tone (Default):**    #19#0#                    **(34)**

### Successful SMS reply

Beep alarm activated/de-activated.

## 3.10 Check status

### Method

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

**Check socket operating status:**    #07#                    **(35)**

After receiving the SMS commands, TUTA S30 will reply one SMS message of socket status checking:

Number:\*\*\*\*\* , \*\*\*\*\*

Status: ON/OFF

TEMP:\*\*

Temp control:function ON/OFF

Schedule control:function ON/OFF

Delay control:function ON/OFF

**Check socket output status:**    #000#                    **(36)**

After receiving the SMS commands, TUTA S30 will reply one SMS message of socket output status:

Status: ON

Temp:23.

**Check “delayed switch on/off the socket” parameters:**    #138#                    **(37)**

After receiving the SMS commands, TUTA S30 will reply one SMS message of “Delayed switch on/off the socket” parameters checking:

Status: ON/OFF

Output will switch off/on after \*\* minutes.

**Check “Timing switch on the socket” parameters:**    #128#                    **(38)**

After receiving the SMS commands, TUTA S30 will reply one SMS message of



“Timing switch on the socket” parameters:

Schedule control: function ON/OFF

*WorkDay, StartTime-EndTime.*

**Check “Temperature control” parameters: #159# (39)**

After receiving the SMS commands, TUTA S30 will reply one SMS message of temperature parameters checking:

Status: ON/OFF

Temp control: function ON/OFF

Temp: \*\*

Mode: Heating/Cooling

Range: *LowTemp ~ HighTemp*

If “No temperature sensor connected” be received, it means TUTA S30 cannot detect the temperature sensor. User needs to check if the temperature sensor is inserted to the I/O port.

**Check “temperature rapid changing alarm” parameters: #160# (40)**

After receiving the SMS commands, TUTA S30 will reply one SMS message of parameters. It means SMS alarm message will be sent upon the surrounding temperature changes “Delta” centigrade degree within \* minutes:

Fast temperature changing.: function ON/OFF

Delta: \*

Time: \* minutes

**Check “over-temperature alarm limits” parameters: #170# (41)**

After receiving the SMS commands, TUTA S30 will reply one SMS message of parameters. It means SMS alarm message will be sent upon temperature reaches MinTemp or MaxTemp centigrade degree:

Temperature alert: function OFF

Min Temp.: \*\*

Max Temp.: \*\*

## 3.11 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:** The **Master** user sends following SMS message to TUTA S30 in order to:

**Reset the socket:**              #08#                                  **(42)**

 **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 TUTA S30 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 TUTA S30 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 TUTA S30's 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. The power switch is OFF.	Check TUTA S30's external AC power is available.

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No.	General Trouble	Possible Reason	Solution
			Power on the socket.
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.	TUTA S30 work abnormally.	Switch off the power, check SIM card, or reset factory setting.
6	After power on the socket, GSM indicator keeps flashing.	Network signal weak or network busy.	If mobile phone's 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	The 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 plug

Output power socket relay 110~ 230V/50HZ, 230V/30A(30s), 15A long-term,  
CEE7/4 German "Schuko"

Operating temperature -10°C~+50°C

Store temperature -20°C~+60°C

Relative humidity 10-90%, without condensation

Communication protocols GSM PHASE 2/2+ (including data operation)

Data interface GSM SIM 1.8V/3.0V socket

External temperature sensor -10°C~50°C

GSM working band EGSM900,DCS1800

## Appendix: SMS commands list

Category	Function	Command
Time	Regulate the socket time	(1) <b>#152#SIMCardNumber#</b>
Define the users	Add a master number to the socket	(2) <b>#00#</b>
	Change the master user's number	(3) <b>#14#NewMasterNumber#</b>
	Add a family number	(4) <b>#06#FamilyNumber#</b>
	Add several family numbers	(5) <b>#06#FamilyNumber1#...#FamilyNumber4#</b>
	Delete a family number	(6) <b>#113#FamilyNumber#</b>
	Delete several family numbers simultaneously	(7) <b>#113#FamilyNumber1#...#FamilyNumber4#</b>
	Delete all family numbers	(8) <b>#113#</b>
Switching on/off output manually	Master user switches on the socket output manually	(9) <b>#01#</b>
	Master user cuts off the socket output manually	(10) <b>#02#</b>
	Family user switches on the socket output manually	(11) <b>#01#Password#</b>
	Family user cuts off the socket output manually	(12) <b>#02#Password#</b>
	Enable switching on/off the output by calling	(13) <b>#18#1#</b>
	Disable switching on/off the output by calling (Default)	(14) <b>#18#0#</b>
Delay control	Delay switching on the output after a certain minutes	(15) <b>#138#1#Minutes#</b>
	Delay switching off the output after a certain minutes	(16) <b>#138#0#Minutes#</b>
Timing control	Enable timing switch on the output	(17) <b>#128#1#</b>
	Set time period to switch on the output	(18) <b>#129#WorkDay#StartTime#EndTime#</b>
	Disable timing switch on the output	(19) <b>#128#0#</b>
Temperature control	Enable auto-control the output by temperature	(20) <b>#159#1#</b>
	Set temperature range to switch on/off the output	(21) <b>#159#Mode#LowTemp#HighTemp#</b>
	Disable auto-control the output by temperature	(22) <b>#159#0#</b>
Over-temperature alarm	Enable the over-temperature alarm	(23) <b>#170#1#</b>
	Set limits of temperature	(24) <b>#170#MinTemp#MaxTemp#</b>
	Disable the over-temperature alarm	(25) <b>#170#0#</b>
Temperature rapid-changing alarm	Enable the temperature rapid-changing alarm	(26) <b>#160#1#</b>
	Set time period and temperature changing value	(27) <b>#160#Temp#Time#</b>
	Disable the temperature rapid-changing alarm	(28) <b>#160#0#</b>
	SMS notification upon the	(29) <b>#11#1#</b>

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Category	Function	Command
SMS notification	socket output changing (Default)	
	No SMS notification upon the socket output changing	(30) <u>#11#0#</u>
	SMS notification upon the power supply changing (Default)	(31) <u>#12#1#</u>
	No SMS notification upon the power supply changing	(32) <u>#12#0#</u>
"Beep" warning tone	Enable the "Beep" warning tone	(33) <u>#19#1#</u>
	Disaable the "Beep" warning tone (Default)	(34) <u>#19#0#</u>
Check status	Check socket operating status	(35) <u>#07#</u>
	Check Socket output status	(36) <u>#000#</u>
	Check "Delayed switch on/off the socket" parameters	(37) <u>#138#</u>
	Check "Timed switch on the socket" parameters	(38) <u>#128#</u>
	Check "Temperature control" parameters	(39) <u>#159#</u>
	Check "temperature rapid-changing alarm" parameters	(40) <u>#160#</u>
	Check "over-temperature alarm" parameters	(41) <u>#170#</u>
Reset to factory settings	Reset the socket	(42) <u>#08#</u>