

POWERTXT USA

3G power socket



User Manual
Manual version 2.0

POWERTXT USA 3G power socket

Thank you for purchasing the POWERTXT USA.

POWERTXT USA GSM power socket is a remote controlled socket consisting of a GSM module. The power supply output can be turned on or off remotely by the SMS command or local controlled by pressing button.

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

This brochure suits for **POWERTXT USA** model.

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

CONTENT

<i>For your safety</i>	4
<i>Exception clause</i>	4
<i>1.1 Package contents</i>	5
<i>1.2 Sockets instructions</i>	5
<i>1.3 Light indicator</i>	5
<i>2.1 User authorization level</i>	5
<i>2.2 About the SMS Command</i>	5
<i>3.1 Start to use</i>	6
<i>3.2.1 Register Master-number</i>	6
<i>3.2.2 Change Master number</i>	6
<i>3.5 Control socket power</i>	6
<i>3.6 Delay control the socket output</i>	6
<i>3.7 Calendar control</i>	7
<i>3.8 Thermostat control</i>	7
<i>3.9 Temperature alarm</i>	8
<i>3.10 SMS when on/off button pressed</i>	8
<i>3.11 SMS when power lost or restore</i>	8
<i>3.12 SMS notification to User</i>	8
<i>3.13 Check status</i>	9
<i>3.14 Weak GSM signal notification</i>	9
<i>3.15 Change password</i>	9
<i>3.16 Resetting the socket</i>	9
<i>4 Main Technical Parameters</i>	9
Appendix: SMS commands list	11



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 **POWERTXT USA 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

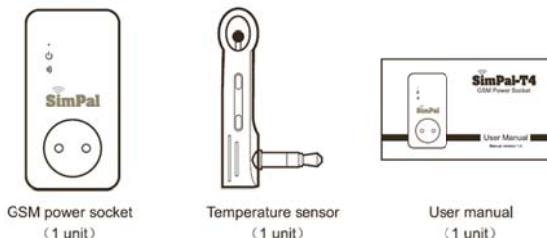
- This socket was designed for home or office use. Do not use it on the electrical appliance which is for industry or business operation, for example, iatrical appliances, large heaters and refrigerates.
- Before using this socket, make sure that the mobile phones can be used well in the area, otherwise, 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.
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 cancel some functions at any time without prior notice.

1.1 Package contents

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1.2 Sockets instructions

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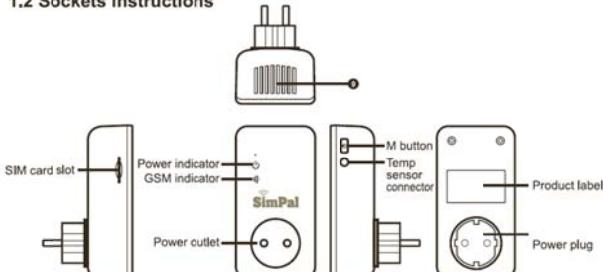


Figure 1: SimPal-T4 instructions

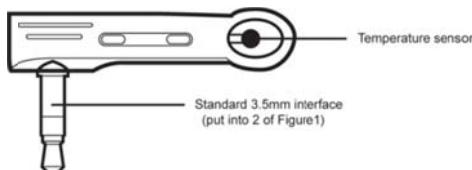


Figure 2: Temperature sensor Instruction

1.3 Light indicator

Model	Indicator	Action	Status
POWERTXT USA	Power icon indicator	Turning off	Socket power output OFF
		Constant light	Socket power output ON
	Wireless icon indicator	Flash slowly	Searching GSM network
		Slowly breath	Working in standby mode.
		Continues light in 3 seconds	Rest to factory setting
		Flash fast	Process SMS command

2.1 User authorization level

Socket settings 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 POWERTXT USA.

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.

Family users ("Family"):

There are four families 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 control the socket.

2.2 About the SMS Command

- **SMS command format:** #code#content#.
- The maximum digits that are allows for the phone number is sixteen.
- POWERTXT USA 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 Start to use

- Installed SIM card to POWERTXT USA 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.

Power on:

1. Plug the POWERTXT USA in 230V wall socket.

The GSM LED will be flashing slowly for about 15 seconds, and turn to slowly breathe status, breathe LED means the socket already register GSM network, its ready to working.

The socket default power output is OFF.

2. Insert the plug of electronic appliance in the POWERTXT USA electrical outlet.

3. **M button** (See 5 on Figure1) can be pressed for about one second to switch on or off the socket output.

After adding user numbers to the socket, users can send SMS command to control the power supply output.

Note:

1. If the GSM indicator light is flash slowly all the time, which imply the SIM card working abnormally, all functions of this socket are invalid.
2. Check GSM network signal of the using place:
 - GSM network's signal strength may affect the socket feature. Therefore, before using, the user should ensure that socket 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.

3.2.1 Register Master-number.

Sending following SMS to socket SIM card number from your mobile phone (the phone number will be the **Master** number):

Register Master-number on the socket: #00# (1)

3.2.2 Change Master number

Master sends following SMS message in order to:

Change master-number: #14#**NewMasterNumber** (2)

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

3.3.1 Register Family-number

Up to 4 Family-number can be stored on GSM socket.

Family-number has the authority to send SMS command to switch on or cut off the socket power output.

Method

Master sends following SMS message in order to:

Register a Family:

#06#**Family-Number**# (3)

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

3.3.2 Check Family number

Master sending SMS to check Family number: #06# (4)

3.3.3 Delete Family

Method

Master sends following SMS message in order to:

Delete a Family: #15#**Family-Number**# (5)

Delete all Families: #15# (6)

3.5 Control socket power

Method

Method 1: To press **M button one second** (See 5 on Figure1).

Method 2:

Master sends following SMS message to socket in order to:

Turn ON socket power output: #01#0# (7)

Turn OFF socket output: #02#0# (8)

3.6 Delay control the socket output

Description

- The socket output can be set to delay switch ON/OFF for a period time.

- Delay control function will auto deactivate once manual change socket status by sending SMS or M button, activate calendar control or thermostat control will also deactivate the delay control function.
- 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.

☒ Method

Master sends following SMS message in order to:

Delay switching ON output after a certain minutes:

#12#0#Minutes#1# (9)

Delay switching OFF output after a certain minutes:

#12#0#Minutes#0# (10)

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

Press M button or send other SMS command to change the socket power, it will automatically closed delay control function

3.7 Calendar control

3.7.1 Activate calendar control

☒ Description

- The socket output can be set to switch on for duration and then be switch off after the duration.
- Calendar control function will auto deactivate if user manually change the socket status by SMS or M button, Delay control or Thermostat control will also deactivate calendar control function.

☒ Method

Master sends following SMS message in order to:

Activate calendar control function: #19#0#1# (11)

Socket will auto switching on or off the output according to the schedule settings.

3.7.2 Set calendar

☒ Description

After successful setting of time duration to switch on the socket output, the schedule parameter will be saved on the socket until socket reset to factory settings.

☒ Method

Master sends following SMS message in order to:

Set time period to switch on the socket output:

#20#0#WorkDay#StartTime#EndTime# (12)

- **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
9	Weekend

- **StartTime** and **EndTime:** Be consists of 4 digits (hh:mm) and works on a 24 hour clock. If **StartTime** bigger than **EndTime**, it will operate until next day EndTime.
- 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 POWERTXT USA, 0000 means time 00:00(hh:mm)AM, 2130 means time 9:30PM.

3.7.3 Deactivate calendar control

☒ Method

Master sends following SMS message in order to:

Deactivate calendar control: #19#0#0# (13)

3.8 Thermostat control

3.8.1 Activate thermostat function

☒ Description

- The external temperature sensor must be inserted into the **I/O** port of socket. The socket power output can be auto controlled according environment temperature change.

- Thermostat function will auto deactivate if user manually change the socket status by SMS or M button, Delay control or Calendar control will also deactivate calendar control function.
- There are warming mode and cooling mode for thermostat 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.

Method

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

Activate Thermostat control: #23#0#1# (14)

3.8.2 Set thermostat control parameters

Method

Master sends following SMS message in order to:

Set thermostat control parameters: #24#0#mode#low-temp#high-temp# (15)

Mode parameter can be 1 or 2, Warming mode is 1, cooling mode is 2;
Temp range should be within -10 to 50 degree.

For example #24#0#1#15#25#, it means set SimPa-T4 thermostat control parameter, work with warming mode, and turn on socket when temperature lower than 15 degree, turn off socket when temperature higher than 25 degree.

After successful setting of temperature range, the temperature parameter will be saved on the socket until socket reset to factory settings.

3.8.3 Deactivate thermostat control function

Method

Master sends following SMS message in order to:

Deactivate thermostat control: #23#0#0# (16)

3.9 Temperature alarm

Description

A range of temperature can be pre-set onto socket. In this case, if the surroundings temperature is detected out of the pre-set temperature range, POWERTXT USA socket will auto-send the SMS alarm message to your mobile phone.

This feature depends on the temperature sensor.

Method

Master sends following SMS message in order to:

Activate over-temperature alarm: #21#0#1# (17)

Set temperature range: #22#0#MinTemp#MaxTemp# (18)

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

Deactivate temperature alarm:

#21#0#0# (19)

3.10 SMS when on/off button pressed

Description

POWERTXT USA socket will default sending SMS notify Master and Family when on/off button pressed. The Master can enable/disable this SMS notification.

Method

Master sends following SMS message in order to:

SMS when on/off button pressed (Default): #03#1# (20)

Deactivate SMS when on/off button pressed: #03#0# (21)

3.11 SMS when power lost or restore

Description

POWERTXT USA socket will default sending SMS notify when main power supply lost or restore.

Master can enable/disable this SMS notification.

Method

Master sends following SMS message in order to set:

SMS when power lost or restore (Default): #05#1# (22)

Deactivate SMS when power lost or restore: #05#0# (23)

3.12 SMS notification to User

POWERTXT USA socket will sending SMS alert when mains power lost/restore, temperature alert or other information. Default sending SMS to Master and family. Master can change the setting to cancel SMS to family number.

Method

Master sends following SMS message in order to:

Activate SMS alert to User (Default) #16#1# (24)

Deactivate SMS alert to User #16#0# (25)

3.13 Check status

Method

Master or Family sends following SMS message in order to:
Check socket operating status: #07#0# (26)

Check “delayed control” parameters: #34# (27)

Check “Calendar control” parameters: #33# (28)

Check “Thermostat control” parameters: #32# (29)

Check “over-temperature alarm limits” parameters: #35# (30)

3.14 Weak GSM signal notification

The socket can send a SMS notification when the GSM signal strength is too weak. The Master user can enable/disable this SMS notification.

Method

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

Check GSM signal #27# (31)

Activate SMS notification upon weak GSM signal: #27#1# (32)

Deactivate SMS notification upon weak GSM signal (Default): #27#0# (33)

- **Successful SMS reply**

Weak GSM signal strength alert function ON/OFF.

The alerter will send SMS message when it alarms:

Weak GSM signal alert, the CSQ is **.

3.15 Change password

Method

Master sends following SMS message in order to:

Change the password: #04#Oldpassword#Newpassword# (34)

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

3.16 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.

POWERTXT USA reset factory setting:

Method 1: Press the side **M** button of the device for 10 seconds.

Method 2: Master sends following SMS message in order to:

Reset POWERTXT USA socket: #08#password# (35)

4 Main Technical Parameters

Input power plug	110~230V/50HZ, CEE 7/7 hybrid Schuko/French/American/Australia plug
Output power outlet	110~ 230V/50HZ, 230V/30A(30s), 16A long-duration, CEE7/4 German “Schuko”/ French/ American/Australia
Operating temperature	-10°C ~+50°C
Store temperature	-20°C ~+60°C
Relative humidity	10-90%, without condensation
Communication	GSM PHASE 2/2+

protocols	(including data operation)
Data interface	GSM SIM 1.8V/3.0V socket
Temperature sensor range	-10°C~50°C
GSM working band	850/900/1800/1900Mhz

Appendix: SMS commands list

Category	Function	Command
Define the users	Register Master-number	(1) <u>#00#</u>
	Change Master-number	(2) <u>#14#NewMasterNumber#</u>
	Add Family-number	(3) <u>#06#Family-Number#</u>
	Check Family-number	(4) <u>#06#</u>
	Delete Family-number	(5) <u>#15#Family-Number#</u>
	Delete all Family-number	(6) <u>#15#</u>
Change socket power status	Connect socket power	(7) <u>#01#0#</u>
	Disconnect socket power	(8) <u>#02#0#</u>
Delay control	Delay switching ON after a certain minutes	(9) <u>#12#0#Minutes#1#</u>
	Delay switching OFF after a certain minutes	(10) <u>#12#0#Minutes#0#</u>
Calendar control	Activate calendar control	(11) <u>#19#0#1#</u>
	Set calendar control parameters	(12) <u>#20#0#WorkDay#StartTime#EndTime#</u>
	Deactivate calendar control	(13) <u>#19#0#0#</u>
Thermostat control	Activate thermostat control	(14) <u>#23#0#1#</u>
	Set thermostat control parameters	(15) <u>#24#0#mode#low-temp#high-temp#</u>
	Deactivate thermostat control	(16) <u>#23#0#0#</u>
Temperature alarm	Activate temp-alarm	(17) <u>#21#0#1#</u>
	Set temp range	(18) <u>#22#0#MinTemp#MaxTemp#</u>
	Deactivate temp-alarm	(19) <u>#21#0#0#</u>
SMS notifications	SMS when on/off button pressed (Default)	(20) <u>#03#1#</u>
	SMS when on/off button pressed function OFF	(21) <u>#03#0#</u>
	SMS when power lost or restore (Default)	(22) <u>#05#1#</u>
	SMS when power lost or restore function OFF	(23) <u>#05#0#</u>
	SMS alert to User	(24) <u>#16#1#</u>
	SMS alert to User function OFF	(25) <u>#16#0#</u>
Check status	Check status	(26) <u>#07#0#</u>
	Check "Delayed Control" status	(27) <u>#34#</u>
	Check "Calendar control" status	(28) <u>#33#</u>
	Check "Thermostat control" status	(29) <u>#32#</u>
	Check "temp-alarm" status	(30) <u>#35#</u>
	Check GSM signal	(31) <u>#27#</u>
	Weak GSM signal alert	(32) <u>#27#1#</u>
	Disable weak GSM signal alert	(33) <u>#27#0#</u>
Change password	Change password	(34) <u>#04#old-password#new-password#</u>
Reset socket	Reset to factory setting	(35) <u>#08#Password#</u>

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 25cm between the radiator & your body.

FCC Warning

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

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

NOTE 1: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.