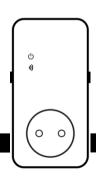
# SimPal-T420 4G Power Socket



# SimPal-T20

Wireless

Power

User Manual

Version 3.0

# SimPal-T420/T20 Power Socket

Thank you for purchasing the SimPal-T420/T20.

SimPal-T420 4G power socket is a remote-controlled socket consisting of a 4G LTE module. The power supply output can be turned on or off remotely by SMS command or voice calling.

SimPal-T420 Master socket can be connect up to 4pcs SimPal-T20 slave socket and 6pcs wireless sensor. Both T20 and T420 socket come with temperature sensor, support temperature monitor, temperature control, schedule control, timer control etc functions. It can monitor your house by connecting wireless sensor with T420.

All services and functions need to be supported by the 4G network and a SIM card.

This brochure suits for SimPal-T420 and SimPal-T20 model.

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

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- Purchase a LTE SIM card (mobile phone card) from LTE network service provider and install it in the socket. This SIM card number is referred as SimPal-T420 number on this brochure.
- The user needs to activate the Caller ID Presentation function of SIM card, and deactivate PIN code of the SIM. Contact with LTE network service provider for support.

# 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, Industrial 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 3500W 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. Device working temperature range is -10°C~+35°C, stop to use this product when environment temperature out of working range.

- Do not plug this socket in a row, only allow connect other electricity device on the socket.
   (nicht hintereinander stecken, nur andere Stromgeräte an der Steckdose anschließen lassen).
- Do not open the case unless maintenance needed by professionals.
- 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.

#### **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 20cm 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:

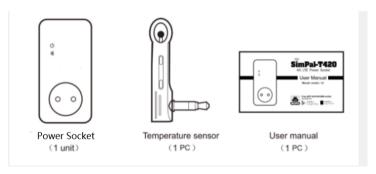
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- -Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- -Consult the dealer or an experienced radio/TV technician for help.

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.

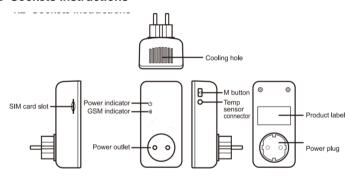
# **Exception clause**

- 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.
- 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.
- 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



### 1.2 Sockets instructions



Note: Slave socket T20 without SIM card slot

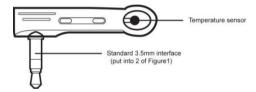


Figure 2: Temperature sensor Instruction

# 1.3 Light indicator

Model	Indicator	Action	Status
	Power Indicator	Turn off	Socket power output OFF
	<b>U</b>	Turn on	Socket power output ON
		Flash slowly	Searching network (SimPal-T420) Lost connection with T420 (SimPal-T20)
SimPal-T420		Slowly breath	Working in standby mode.
and SimPal-20 Power Socket	Wireless Indicator	Two fast and one slow Flash	Pairing slave socket or pairing wireless sensor status.
		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 SimPal-T420.

Master number has the authorization to use all functions of this socket. Only one **Master**'s mobile number is allowed for a socket.

# Family users ("Family"):

There are four families have authorization to turn on/off socket power, set auto control functions and receive alarm messages etc.

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.
- SimPal-T420 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 SimPal-T420 4G 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 SimPal-T420 in an AC power socket.
  - The •)) indicator will be flashing slowly for about 15 seconds, then long beep ring and turn to slowly breathe status, breathe indicator means the socket already register LTE network, its ready to working.

The socket default power output is OFF.

2. Insert the plug of electronic appliance in the SimPal-T420 electrical outlet.

3. M button (See 5 on Figure 1) 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 or make calling to control the power supply output.



- 1. If the wireless indicator light is flash slowly all the time, which imply the SIM card working abnormally, all functions of this socket are invalid.
- 2. Check LTE network signal of the using place:
  - LTE network's signal strength may affect the socket feature. Therefore, before using, the user should ensure that SimPal-T420 is used in an area with a strong LTE network signal (CSQ higher than 12).
  - 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 LTE network connection of the socket.

# 3.2 Download "LTE Socket" APP

We offer free APP to work with SimPal-T420, search "LTE Socket" on Google Play or Apple APP Store, download and install the APP, then it can use APP to control SimPal-T420.

First time register device on APP, input device name and SIM card number which installed on SimPal-T420 device. The APP will create SMS content, send the SMS to device, it will operate according APP function description.

Even without APP, user can send SMS manually according following instruction.

# 3.3 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: #00# (1)

# 3.3.1 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.

#### 3.3.2 Register Family-number

Max 4 Family-number can be stored on each socket.

**Family-number** have the authority to send SMS command to on/off power, set auto control and receive alarm messages.

#### 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. Suggest to add country

code in front of phone number, such as +4912345678.

#### Check Family number:

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

# **Delete Family**



Master sends following SMS message in order to:

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

Delete all Family numbers: #15# (6)

# 3.4 Pairing slave socket

Master sends SMS to paring slave socket SimPal-T20 with Master SimPal-T420 4G socket,

before paring, need to make sure T20 reset factory setting, if the T20 already paired with other T420 before, need to keep press T20 M button for 10 seconds to reset factory setting. Master send following SMS message in order to:

Pairing Slave socket: #60#name# (7)

After receive SMS reply "Power on "name" socket now! ", plug the T20 socket to main power, T20 •) LED flash slowly for some seconds and go to slowly breath status after connected with T420 socket.



#### Note

- "name" is the slave socket ID communicate with LTE socket, operate slave socket by sending SMS request included "name" in SMS command.
- Request different T20 "name" for one master socket.
- "Name" only can be English letter or digital number, max 7 characters.

Master sends following SMS message in order to:

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Remove slave socket: #71#name# Remove all slave socket: #71#	(8) (9)
3.5 Turn on/off power	
Method	
Method 1: To press M button one second (See 5 on Figure 1).	
Method 2:	
Master sends following SMS message to socket in order to set:	
Master socket power - ON: #01#0#	(10)
Slave socket power - ON: #61#name#	(11)
Master socket and all Slave socket power – ON: #01#	(12)
Master socket power - OFF: #02#0#	(13)

Slave socket power - OFF: #62#name# (14)

Master socket and all Slave socket power – OFF: #02# (15)

# 3.6 Delay control

# 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 schedule control or temperature 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 set:

Master socket turn OFF now and turn ON after certain minutes:

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<u>#12#0#*Minutes*#1#</u> (16)

Slave socket turn OFF now and turn ON after certain minutes:

#63#name#*Minutes*#1# (17)

Master socket turn ON now and turn OFF after certain minutes:

#12#0#*Minutes*#0# (18)

Slave socket turn ON now and turn OFF after certain minutes: #63#name#Minutes#0# (19)

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

Set Master socket delay control – OFF: #11#0# (20)

Set Slave socket delay control – OFF: #63#name#0# (21)

## 3.7 Schedule control

#### 3.7.1 Activate schedule control

### Description

- The socket power can be set to automatically turn on according schedule.
- Schedule control function will auto deactivate if user manually change the socket status by SMS or M button, Delay control will also deactivate schedule control function. But temperature control and schedule control can be working at the same time, it do not process temperature control during schedule turn off power.

### Method

Master sends following SMS message in order to set:

Master socket schedule control - ON:	<b>#</b> 19#0#1#	(22)
Master socket schedule control - OFF:	<b>#</b> 19#0#0#	(23)

Slave so	cket s	chedu	le contro	I - ON:	#64#name#1#	(24)

Slave socket schedule control - OFF: #64#name#0# (25)

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

# 3.7.2 Set schedule parameters

# Description

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

# Method

Master sends following SMS message in order to:

Set Master socket schedule control time period:

#20#0#WorkDay#StartTime#EndTime# (26)

Set Slave socket schedule control time period:

#65#name#WorkDay#StartTime#EndTime# (27)

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#1200#0800#, 0 means the SimPal-T420, 1200 means time 12:00(hh:mm)AM, 0800 means time 08:00. It will turn on power at 12:00, and turn off at 08:00 of next day.

# 3.8 Temperature control

# 3.8.1 Activate temperature control

# 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.
- Temperature control function will auto deactivate if user manually change the socket status by SMS or M button, Delay control will also deactivate temperature control function. But temperature control and schedule control can be working same time. It only process temperature control at schedule power on time period.
- There are warming mode and cooling mode for temperature control function. In warming

#### SimPal-T420/T20 USER MANUAL

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 set:

Master socket temperature control - ON:	<u>#23#0#1#</u>	(28)
Master socket temperature control - OFF:	#23#0#0#	(29)

Slave socket temperature control - ON:	#66#name#1#	(30)
Slave socket temperature control - OFF:	#66#name#0#	(31)

# 3.8.2 Set temperature control parameters

# **Method**

Master sends following SMS message in order to:

Set Master socket temp control parameters: #24#0#mode#low-temp#high-temp# (32)

Set Slave socket temp control parameters: #67#name#mode#low-temp#high-temp# (33)

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

For example #24#0#1#15#25#, it means set SimPa-T420 temperature control parameter, work with warming mode, turn on power when temperature lower than 15 degree, turn off power when temperature higher than 25 degree.

After successful setting of temperature range, the temperature parameter will be saved on the socket.

# 3.9 Temperature alarm

# Description

A range of temperature can be pre-set onto each socket. When surroundings temperature is detected out of the pre-set temperature range, the SimPal-T420 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 set:

Master socket temperature alarm - ON: #21#0#1# (34)

Slave socket temperature alarm - ON: #68#name#1# (35)

Set Master socket temperature range: #22#0#MinTemp#MaxTemp# (36)

Set Slave socket temperature range: #69#name#MinTemp#MaxTemp# (37)

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

Master socket temperature alarm - OFF (Default) : #21#0#0# (38)

Slave socket temperature alarm - OFF (Default): #68#name#0# (39)

# 3.10 Connect wireless sensor

# Description

SimPal-T420 can be working with 6pcs wireless sensor and 2pcs remote control, it can use for alarm functions. Only following sensor can be working with T420:

- WRC-047-F remote control
- WSD-049-F Wireless smoke detector
- WDS-051-F Wireless door sensor
- WIR-053-F Wireless PIR motion detector
- WSS-055-F Wireless strobe siren
- WLD-061-F Wireless water leak detector

There are two types of alarm sensor, one is alarm type, only alarm when T420 alarm function on, the other one is emergency type, it will always alarm even T420 alarm function off. For smoke detector and water leak detector, suggest to pair as emergency type sensor.

#### Method

Master sends following SMS message in order to:

Pair alarm sensor: #30#1#Name#	(40)
Pair emergency sensor: #30#2#name#	(41)
Pair remote control: #30#3#	(42)
Check pair sensor list: #30#	(43)
Remove single sensor: #44#name#	(44)
Remove all wireless sensor: #44#	(45)
Remove all remote control: #45#	
(46)	

Sensor name only can be English letter of digital number, can not set other characters as sensor name. Max allow 10 characters for sensor name.

Set alarm function - ON: #40#1#	(47)
Set alarm function - OFF: #40#0#	(48)
Set schedule alarm function - ON: #47#1#	(49)
Set schedule alarm function - OFF: #47#0#	(50)
Set schedule alarm time period: #46#day#start-time#end-time#	(51)

Schedule alarm parameter day time parameters is same as Schedule control.

Pair wireless siren:	<u>#43#</u>	(52)

Set beeper alarm duration: #50#time# (53)

When sensor alarm, T420 will beep sound, default beep 10 seconds, it can send SMS to change beep duration. The time range is 0-60. Such as #50#30# to set beep 30 seconds.

# 3.11 SMS when on/off button pressed

### Description

SimPal-T420 will default sending SMS notify Master and Family when press M button to turn on/off power. The Master can enable/disable this SMS notification.

### **Method**

Master sends following SMS message in order to set:

SMS when on/off button pressed - ON (Default): #03#1# (54)

SMS when on/off button pressed - ON:  $\pm 03 \pm 04$  (55)

### 3.12 Power failure alarm

### Description

SimPal-T420 will default sending SMS notify when main power supply lost or restore. It

only alert when SimPal-T420 power supply change, SimPal-T20 power supply change will not report.

Master can enable/disable this SMS notification.

### Method

Master sends following SMS message in order to set:

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

(56)

SMS when power lost or restore - OFF: #05#0#

(57)

# 3.13 Calling control

SimPal-T420 default send SMS reply when Master or Family calling to turn on/off power, it can change the setting to calling control without SMS reply.

### Method

Master sends following SMS message in order to:

SMS when calling control - ON (Default): #49#1#

(58)

SMS when calling control – OFF: #49#0# ( 5 9 Calling control function – ON(Default): #09#1# (60)
Calling control function – OFF: #09#0# (61)

### 3.14 SMS notification to User

SimPal-T420 will sending SMS alert when mains power lost/restore, temperature alert or other information. Default sending SMS to both Master and family. Master can change the setting only send SMS to Master number.

### Method

Master sends following SMS message in order to:

SMS to family number – ON (Default): #16#1# (62)

SMS to family number – OFF: #16#0# (63)

### 3.15 Check status



Master or Family sends following SMS message in order to:

Check Master socket operating status: #07# (64)
Check Slave socket operating status: #70# (65)

After receiving the SMS commands, it will reply SMS message like this:

Main unit: ON 23C

"Slave1": OFF 30C T "Slave2": ON 23C S

"Slave3": ON 25C D

Slaves . ON 250 D

"Slave4": ON 25C D

Socket under "delay control" it will show character "D" after the temperature value, when socket under "Temperature control", it will show character "T" after the temperature value, when socket under "Schedule control", it will show "S" after the temperature value.

Check Master socket "delayed control" parameters: #34# (66)

Check Slave socket "delayed control" parameters: #63#name# (67)

Check Master socket "Schedule control" parameters: #33#	(68)
Check Slave socket "Schedule control" parameters: #64#name#	(69)
Check Master socket "Temperature control" parameters: #32#	(70)
Check Slave socket "Temperature control" parameters: #66#name#	(71)
Check Master socket "Temperature alarm" parameters: #35#0#	(72
Check Slave socket "Temperature alarm" parameters: #68#name#	(73

# 3.16 Weak LTE signal alarm

The socket can send a SMS notification when the LTE 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 LTE signal
 #27#
 (74)

 Weak LTE signal alarm - ON:
 #27#1#
 (75)

 Weak LTE signal alarm - OFF (Default):
 #27#0#
 (76)

The LTE signal is show as CSQ, CSQ range is 0-31, when CSQ lower than 13, it will set as weak LTE signal. When CSQ lower than 10, device will stop working.

# 4. Reset factory setting

# 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.
- SimPal-T20 need to reset factory setting before pairing with new SimPal-T420 again.

(77)

Master socket reset factory setting:

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

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

Reset Master socket: #08#1234#

SimPal-20 reset factory setting:

Method: Keep press the M button of the device for 10 seconds.

## 5. 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℃~+35℃
Store temperature	-20℃~+50℃

10-90%, without condensation
LTE PHASE 2/2+ (including data operation)
LTE SIM 1.8V/3.0V socket
Up to 30 meters
-10°C~50°C
LTE FDD: B2/B4/B5/B7/B12/B13/B25/B26/B66/B71 UMTS: B2/B4/B5

# **Appendix: SMS commands list**

Category	Function	Command
Define the users	Register Master-number	(1) <u>#00#</u>
	Change Master-number	(2) #14#NewMasterNumber#
	Add Family-number	(3) #06# <b>Family-Number</b> #
	Check Family-number	(4) <u>#06#</u>
	Delete Family-number	(5) <u>#15#<b>Family-Number</b>#</u>
	Delete all Family-number	(6) <u>#15#</u>
	Pairing slave socket	(7) <u>#60#name#</u>
Pairing T20 slave socket	Remove slave socket	(8) <u>#71#name#</u>
	Remove all slave socket	(9) <u>#71#</u>
Power control	T420 socket power - ON	(10) <u>#01#0#</u>
	T20 socket power - ON	(11) #61#name#

Category	Function	Command
	All socket power - ON	(12) <u>#01#</u>
	T420 socket power - OFF	(13) <u>#02#0#</u>
	T20 socket power - OFF	(14) #62#name#
	All socket power - OFF	(15) <u>#02#</u>
	Delay switching ON SimPal-T420 after a certain minutes	(16) <u>#12#0#<b>Minutes</b>#1#</u>
	Delay switching ON SimPal-T20 after a certain minutes	(17) #63#name# <b>Minutes</b> #1#
Delay control	Delay switching OFF SimPal-T420 after a certain minutes	(18) <u>#12#0#<b>Minutes</b>#0#</u>
	Delay switching OFF SimPal-T20 after a certain minutes	(19) #63#name# <b>Minutes</b> #0#
	T420 delay control – OFF (Default)	(20) <u>#11#0#</u>
	T20 delay control – OFF (Default)	(21) #63#name#0#
Calendar	T420 schedule control - ON	(22) <u>#19#0#1#</u>

Category	Function	Command
control	T420 schedule control – OFF (Default)	(23) <u>#19#0#0#</u>
	T20 schedule control - ON	(24) #64#name#1#
	T20 schedule control – OFF (Default)	(25) #64#name#0#
	Set T420 schedule control parameters	(26) #20#0#WorkDay# StartTime#EndTime#
	Set T20 schedule control parameters	(27) #65#name#WorkDay#StartTim e#EndTime#
	T420 Temp control - ON	(28) <u>#23#0#1#</u>
Temperature control	T420 Temp control - OFF (Default)	(29) <u>#23#0#0#</u>
	T20 Temp control - ON	(30) #66#name#1#
	T20 Temp control – OFF (Default)	(31) #66#name#0#

Category	Function	Command
	Set T420 temp control parameters	(32) #24#0#mode#low-temp#high-te mp#
	Set T20 temp control parameters	(33) #67#name#mode#low-temp#hig h-temp#
	T420 temperature alarm - ON	(34) <u>#21#0#1#</u>
	T20 temperature alarm - ON	(35) #68#name#1#
Temperature alarm	Set SimPal-T420 temp range	(36) <u>#22#0#<b>MinTemp</b>#<b>MaxTemp#</b></u>
	Set SimPal-T20 temp range	(37) #69#name#MinTemp#MaxTemp#
	T420 temperature alarm - OFF (Default)	(38) <u>#21#0#0#</u>
	T20 temperature alarm – OFF (Default)	(39) #68#name#0#
Wireless	Pair alarm sensor	(40) <u>#30#1#name#</u>

Category	Function	Command
sensor alarm	Pair emergency sensor	(41) #30#2#name#
	Pair remote control	(42) <u>#30#3#</u>
	Check sensor list	(43) <u>#30#</u>
	Remove single sensor	(44) <u>#44#name#</u>
	Remove all sensors	(45) <u>#44#</u>
	Remove all remote control	(46) <u>#45#</u>
	Alarm function – ON	(47) <u>#40#1#</u>
	Alarm function – OFF (Default)	(48) <u>#40#0#</u>
	Schedule alarm - ON	(49) <u>#47#1#</u>
	Schedule alarm - OFF (Default)	(50) <u>#47#0#</u>
	Set schedule alarm parameters	(51) #46#day#start-time#end-time#
	Pair wireless siren	(52) <u>#43#</u>

Category	Function	Command
	Set beeper duration	(53) #50#time#
	SMS when on/off button pressed - ON (Default)	(54) <u>#03#1#</u>
SMS	SMS when on/off button pressed - OFF	(55) <u>#03#0#</u>
notification	SMS when power lost or restore – ON (Default)	(56) <u>#05#1#</u>
	SMS when power lost or restore – OFF	(57) <u>#05#0#</u>
Calling control	SMS when calling control – ON (Default)	(58) <u>#49#1#</u>
	SMS when calling control – OFF	(59) <u>#49#0#</u>
	Calling control function – ON (Default)	(60) <u>#09#1#</u>
	Calling control function – OFF	(61) <u>#09#0#</u>
SMS to Users	SMS to Users – ON (Default)	(62) <u>#16#1#</u>
	SMS to Users – OFF	(63) <u>#16#0#</u>

Category	Function	Command
	Check T420 socket status	(64) <u>#07#</u>
	Check T20 socket status	(65) <u>#70#</u>
	Check T420 "Delayed Control" settings	(66) <u>#34#</u>
	Check T20 "Delayed Control" settings	(67) #63#name#
Check status	Check T420 "Schedule control" settings	(68) <u>#33#</u>
	Check T20 "Schedule control" settings	(69) #64#name#
	Check T420 "Temp control" settings	(70) <u>#32#</u>
	Check T20 "Temp control" settings	(71) <u>#66#name#</u>
	Check T420 "Temp alarm" settings	(72) <u>#35#0#</u>
	Check T20 "Temp alarm" settings	(73) <u>#68#name#</u>

Category	Function	Command
	Check LTE signal	(74) <u>#27#</u>
	Weak LTE signal alarm – ON	(75) <u>#27#1#</u>
	Weak LTE signal alarm – OFF (Default)	(76) <u>#27#0#</u>
Reset socket	Reset T420 to factory setting	(77) <u>#08#1234#</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 20cm between the radiator & vour 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.