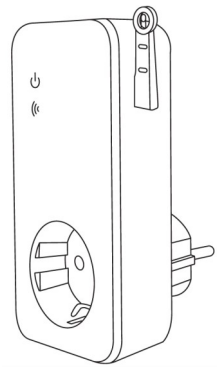


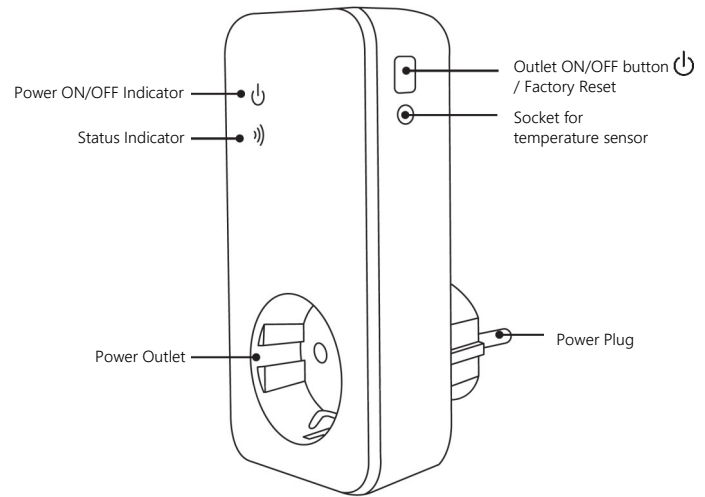
YOYOPower®

USER GUIDE

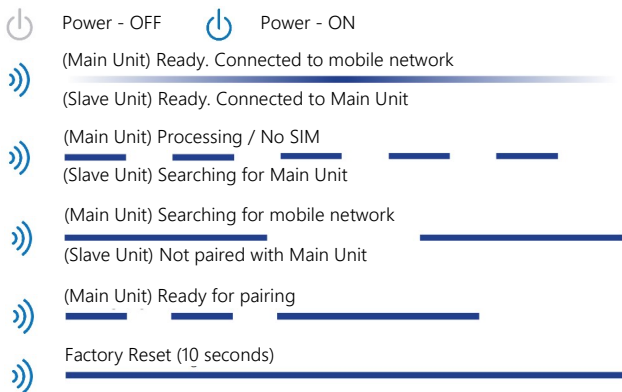
YOYOPower 4G Control® Main Unit
YOYOPower GSM Control® Main Unit
YOYOPower Slave Unit



Get to know YOYOPower

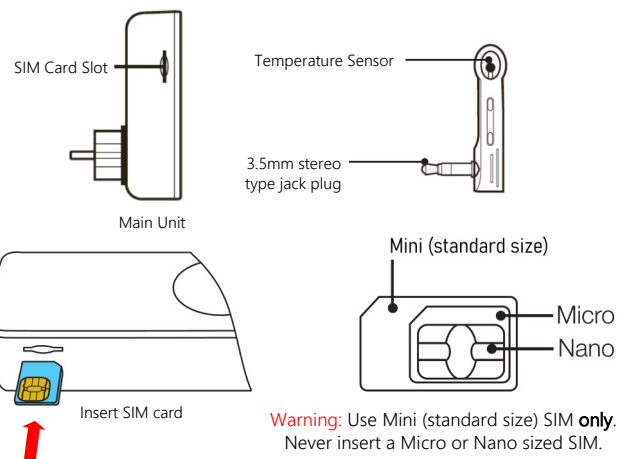


Status Indicators



A3 Rev G (EN)

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YOYOPower Features



Easy set-up and control by SMS or APP (search for YOYOPower in the App StoreSM or Google PlayTM). Outlet ON/OFF button on side of unit plus ability to switch by phone call from Master or User.



Control the outlet power by one of the three automatic control modes: Schedule (time of day and day of week), Delay Timer (1-720 minutes) or Temperature (thermostat).



Get current temperature. Set an SMS alert if the temperature goes outside a given range. Requires temperature sensor (supplied) to be plugged in. Optional accessory waterproof sensor on 2m cable with extended range (-30°C to +100°C).



SMS status notifications including power loss, power restored and low mobile signal. Notification when outlet switched ON or OFF manually or by one of the automatic control modes.



Master sets up devices and has full control. Up to 4 additional users can switch outlets ON or OFF and arm or disarm the alarm using SMS or App. When Notification to Users is enabled, Users also receive certain notifications.



Add up to four Slave Units. These connect wirelessly to the Main Unit and are operated by SMS or APP in the same way as the Main Unit.



Up to six wireless alarm sensors (optional accessories) such as smoke, door open, PIR & water sensor. Sensor activation is signalled by an alarm SMS. Choose whether a sensor always sends an alarm or only when alarms are enabled (e.g. by schedule). (YOYOPower 4G Control only)



Connect one or more wireless sirens with stroboscope. It sounds and flashes for a minute whenever there is an alert from any alarm sensor. (YOYOPower 4G Control only)



Up to two optional wireless remote controls: Alarm on and off buttons turn sensor alarms on and off. Panic button always sends an alarm, even when sensor alarms are off. Button to switch power on and off. (YOYOPower 4G Control only).

Step 1: Prepare Main Unit

1. Plug in the temperature sensor to the socket on the side of YOYOPower, if required. Use a standard 3.5mm stereo audio extension cable if you wish to locate the sensor away from YOYOPower.
2. Unplug the unit and wait two minutes. YOYOPower uses a Mini (standard size) SIM. Insert the SIM Card:
 - a. Hold the SIM card with the gold contacts facing upwards, as shown.
 - b. Insert the SIM gently until you feel a spring pressing back.
 - c. Insert a little further and the SIM clicks in to place.

To remove the SIM Card:

- a. Gently press the SIM card with your fingernail until you hear a click.
- b. The spring in the slot ejects the SIM a few millimetres.
- c. Remove the SIM from the slot.

Note: The SIM PIN must be disabled. Use a mobile phone to check and, if necessary, turn off SIM Lock.

Note: Check that the SIM card has credit.

Warning: Always be sure to unplug YOYOPower and wait 2 minutes before inserting or removing the SIM card. Do not touch the gold contacts of the SIM Card.

Step 2: Set up Main Unit

1. Plug YOYOPower in to an outlet.
2. The status indicator flashes for approximately 60 seconds then changes to slow fade (Ready) indicating that the mobile network has been found.
3. Register your mobile phone to be the Master that controls YOYOPower:
 - Install YOYOPower from the App StoreSM or Google PlayTM
 - Open the YOYOPower app, tap **+ add Main Unit** and enter the location (e.g. Garage), the name of the controlled appliance (e.g. heater) and the Main Unit's mobile number.
or
 - Send an SMS with text **#00#** to the Main Unit's mobile number.
4. Wait for the welcome SMS with the default password 1234 (Don't forget to change it!)
5. Change language to English by sending **#39#0#**
6. Test by switching the outlet ON and OFF according to the instructions below.
7. Plug in the appliance to be controlled via YOYOPower.

YOYOPower Main Unit is now operational

Switch outlet ON and OFF

- Press the ON/OFF button for one second. The outlet switches on or off to when you release the button.
or
- In the YOYOPower app, tap or next to the required unit's name.
or
- (Main Unit) Make a phone call to the mobile number of the SIM card.
or
- (Main Unit) send #01# to switch ON the power and #02# to switch it OFF.
- (Slave Unit) send #61#name# to switch ON power and #62#name# to switch it OFF.
- (All together) send #01# to switch ON the power and #02# to switch it OFF.

Note: Switching ON or OFF manually deactivates automatic control.

Adding a Slave Unit

Before you start, make sure your YOYOPower Main Unit is plugged in.

- Plug in the Slave Unit to an outlet. Wait 30 seconds.
- Reset Slave Unit: press and hold its ON/OFF button until the status indicator turns to a steady light (approx. 10 seconds), then release it.
- Unplug the Slave Unit from the outlet.
- Set the Main Unit to pairing mode:
 - Open the YOYOPower app, select the Main Unit and tap **+ add Slave Unit**.
 - Enter a name for the slave and tap **OK**.*or*
 - Send an SMS with text #60#name#

Note: Name can be up to 7 characters long using letters A-Z, a-z and digits 0-9. Do not use spaces, accented characters or special characters.

- Wait for the SMS telling you to plug in the Slave Unit. Main Unit status indicator flashes. (Pairing mode).
- Plug in the Slave Unit to an outlet.
- Check that you receive an SMS confirming that the Slave Unit has connected. The indicator on the Slave Unit will now slowly fade on and off.
- Test by switching the outlet ON and OFF according to the instructions above.
- Plug in the appliance to be controlled via YOYOPower.

Note: If you make a mistake and want the Main unit to forget the Slave unit, send #71#name#. Perform Factory Reset on the Slave Unit. Repeat the steps above to start again.

Change Password

The password is exactly four numbers, default 1234. To change it:

- Go to Settings for the Main Unit and tap **Change password**
or
- Send #04#OldPassword#NewPassword#

Check Status

ON/OFF and Temperature

- In the YOYOPower app, select the Main unit and tap the button, or send #07# by SMS.

#07# Temperature or --C if no sensor plugged in or Slave Unit offline

Main Unit: OFF 22C
"Light" ON --C S

S Schedule Control active
D Delay Timer active
T Temperature Control active

Get detailed status

- In the YOYOPower app, select the Main Unit, tap the button and then the **Status** button, or send:
 - (Main Unit) #07#0#
 - (Slave Units) #70#

#07#0# Temperature or --C if no sensor plugged in or Slave Unit offline

Main Unit: OFF 22C
Temp control: OFF
Calendar control: ON
Delay control: OFF

Automatic Control

Each YOYOPower outlet can be set to switch ON and OFF automatically according to:

- Schedule:** a pre-set schedule based on day of the week and time of day
- Delay:** a simple delay of 1 to 720 minutes before the outlet switches ON or OFF
- Temperature:** operate as a thermostat for heating or cooling.

Note: Only one of the above modes may be in operation at any time. For example, enabling Delay control disables Schedule control. Using the Manual ON/OFF button also disables automatic control.

Schedule Control

The schedule is active on selected day(s) of the week and switches ON and OFF at the given time of day.

To set using the YOYOPower app:

- Tap against the unit you want to schedule.
- Tap **Schedule Control** .

- Select day(s) to be active.
- Enter ON and OFF times in 24-hour format.
- Tap **OK**. An SMS confirms the schedule is enabled.
- Enable or disable the schedule by tapping or .

Day	Schedule active:
0	Every day
1	Monday
2	Tuesday
3	Wednesday
4	Thursday
5	Friday
6	Saturday
7	Sunday
8	Monday to Friday
9	Weekend (Sat. & Sun.)

To set up by SMS:

- To set up the schedule, send:
 - (Main Unit) #20#0#Day#OnTime#OffTime#
 - (Slave unit) #65#name#Day#OnTime#OffTime#
- An SMS confirms the schedule is enabled.

To disable schedule control by SMS, send:

- (Main Unit) #19#0#0#
- (Slave unit) #64#name#0#

To enable schedule control by SMS, send:

- (Main Unit) #19#0#1#
- (Slave unit) #64#name#1#

#65#Lights#9#0#400#2349#

"Lights": OFF
Schedule control: OFF
Weekend
Time: 04:00 - 23:49

#64#Lights#1#

"Lights": ON
Schedule control: ON
Weekend
Time: 04:00 - 23:49

Notes

- OnTime and OffTime use the 24-hour clock e.g. 0045,2130.
- The setting is saved. To change it, repeat the set-up procedure and the old setting is overwritten.
- If OnTime is later than OffTime, the power stays on until the next day.

Delay Control

Delay control switches the outlet ON or OFF 1 to 720 minutes after the delay is initiated.

To set using the YOYOPower app:

- Tap against the unit you want to configure.
- Tap **Delay Control** .
- Enter 1 to 720 minutes for the delay timer.
- Select if the power to the outlet shall be switched ON or OFF when the delay timer expires.
- Tap **OK**

Note: Tap the **STOP** button to cancel the delay control.

To switch ON the outlet after 1-720 minutes by SMS, send:

- (Main Unit) #12#0#minutes#1#
- (Slave unit) #63#name#minutes#1#

To switch OFF the outlet after 1-720 minutes, by SMS, send:

- (Main Unit) #12#0#minutes#0#
- (Slave unit) #63#name#minutes#0#

To stop the Delay Timer, by SMS, send:

- (Main Unit) #11#0#
- (Slave unit) #63#name#0#

Notes

- The outlet is set to the correct state when the Delay Timer starts. For example, if the outlet is ON and a **switch ON after 60 minutes delay** is initiated, the outlet is first switched off.
- If the Delay Timer is stopped, the outlet state (on or off) is not changed.

Temperature Control

Temperature control provides a thermostat feature to control a heater or cooling equipment. The standard range is -10°C to +50°C. An optional accessory sensor is available with wider range: -30°C to +100°C.

To set using the YOYOPower app:

- Tap against the unit you want to schedule.
- Tap **Temp Control** .
- Enter the required temperature range.
- Select **warming mode** to control a heater or **cooling mode** to control a chiller.
- Tap **OK**. An SMS confirms the temperature control is enabled.
- Enable or disable the temperature control by tapping or .

To set up by SMS:

- To set up temperature control, send:
 - (Main Unit) #24#0#Mode#LowTemp#HighTemp#
 - (Slave unit) #67#name#Mode#LowTemp#HighTemp#
- An SMS confirms the temperature control is enabled.

To disable temperature control by SMS, send:

- (Main Unit) #23#0#0#
- (Slave unit) #66#name#0#

#24#0#1#-3#10#

Main Unit: OFF 22C
Temp control: ON
Mode: Warming
Range: -3-10C

#23#0#0#

Main Unit: OFF 22C
Temp control: OFF
Mode: Warming
Range: -3-10C

To enable temperature control by SMS, send:

- (Main Unit) #23#0#1#
- (Slave unit) #66#name#1#




Notes on Temperature Control

- Mode 1 (warming) switches ON the outlet when temperature is lower than LowTemp and switches OFF when higher than HighTemp.
- Mode 2 (cooling) switches ON the outlet when temperature is higher than HighTemp and OFF when temperature falls below LowTemp.
- The Temperature Sensor must be connected to YOYOPower.
- The setting is saved. To change it, repeat the set-up procedure and the old setting is overwritten.

Temperature Alert

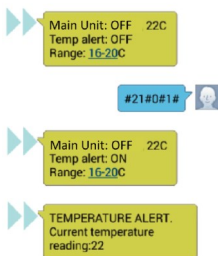
YOYOPower alerts by SMS to Master & Users if the temperature is outside a given range, configurable between -10°C and +50°C. Temperature alerts are always sent, irrespective of sensor alarm on or off setting. An optional accessory sensor is available with wider range -30°C to +100°C

To set using the YOYOPower app:

1. Tap > against the unit you want to schedule.
2. Tap **Temp Alert** .
3. Enter the required temperature range.
4. Tap **OK**. An SMS confirms the temperature alert is enabled.
5. Enable or disable the temperature alert by tapping  or 

To set up by SMS:

1. To set up the temperature alert, send:
 - (Main Unit) #22#0#LowTemp#HighTemp#
 - (Slave unit) #68#name#LowTemp#HighTemp#



2. An SMS confirms the temperature alert is enabled.

To disable temperature alert by SMS, send:

- (Main Unit) #21#0#0#
- (Slave unit) #68#name#0#

To enable temperature alert by SMS, send:

- (Main Unit) #21#0#1#
- (Slave unit) #68#name#1#

Notification Messages

YOYOPower sends SMS notifications of various other situations. You can set which ones to receive in the app (settings) and by SMS – see table NOTIFICATIONS.

Outlet On/Off

By default, YOYOPower sends an SMS notification to Master and Users when an outlet is switched ON or OFF via the Manual button (Main Unit or Slave Unit).

AC Power loss / return

YOYOPower Main Unit sends an SMS notification if the AC power is lost and when it returns. This notification applies only to the Main Unit.

Weak mobile network signal

YOYOPower Main Unit attempts to send an SMS to warn you that the mobile network signal is weak. (The signal must still be strong enough to send the SMS, so the feature cannot notify of lost network or very low strength).

Sensor Alarm function (YOYOPower 4G Control only)

Up to six wireless sensor accessories (e.g. smoke detector, PIR) can be linked to the Main Unit. When a sensor is triggered, YOYOPower sends an alarm SMS to Master & Users. You can choose whether the alarm is always sent (e.g. smoke detector) or only when sensor alarms are on (e.g. when a sensor alarm schedule is in operation).

The Main Unit additionally supports up to two remote control key fobs which turn the sensor alarm function on and off. The panic button sends an alarm SMS.

Add wireless alarm sensors either by using the app Home Alarm button or by SMS-commands listed in the table under WIRELESS SENSORS AND REMOTE CONTROLS wait for the SMS response, activate the device, wait for the confirmation SMS.

Master and Users

The Master is the mobile phone that first commands YOYOPower Main Unit using the app or by sending command #00#. The Master can change settings and has full control over YOYOPower.

The Master can add up to 4 Users who can switch the outlet ON and off, get status information and, if enabled, some notifications. Users may interact by SMS or use the YOYOPower app.

Note: Users will receive error messages when attempting to change settings.

To set up and manage users:

- In the app, tap > against the YOYOPower unit to configure, then tap

Advanced Settings  and then **Users** .

or

- Use the SMS commands in the table MASTER & USER MANAGEMENT.

Note: International mobile number format (e.g. +467xxxx) recommended

Complete Command List

Key:

M indicates the command for a **Main unit**

S indicates the command for a **Slave unit**

name is the name of the unit you want to control (up to 7 characters long using letters A-Z, a-z and digits 0-9; no spaces, accented or special characters allowed)

U means that a User may access the command. (Master may access all commands)

ON or **OFF** in capitals shows the default setting, e.g. *Schedule Control - OFF*

SWITCH OUTLET ON AND OFF

Switch ON outlet	M	#01#0#	U
	S	#61#name#	U
Switch OFF outlet	M	#02#0#	U
	S	#62#name#	U
Switch ON all outlets		#01#	
Switch OFF all outlets		#02#	

GET STATUS

Status summary & temperature		#07#	U
Individual unit status	M	#07#0#	U
	S	#07#name#	U
Status summary, & temp. all units		#70#	
Mobile network information	M	#27#	

SCHEDULE CONTROL

Define schedule	M	#20#0#Day#OnTime#OffTime#	
	S	#65#name#Day#OnTime#OffTime#	
Check schedule	M	#33#	U
	S	#64#name#	U
Schedule Control - OFF	M	#19#0#0#	
	S	#64#name#0#	
Schedule Control - on	M	#19#0#1#	
	S	#64#name#1#	

Day: 0 - Every day; 1 - Monday; 2 - Tuesday; 3 - Wednesday; 4 - Thursday; 5 - Friday; 6 - Saturday; 7 - Sunday; 8 - Monday to Friday; 9 - Weekend (Saturday & Sunday)

OnTime & OffTime in 24 hour format e.g. 0030, 0830, 1200, 1730, 2230

DELAY CONTROL

Switch outlet ON after 1 to 720 minutes	M	#12#0#minutes#1#	
	S	#63#name#minutes#1#	
Switch outlet OFF after 1 to 720 minutes	M	#12#0#minutes#0#	
	S	#63#name#minutes#0#	
Check Delay Control	M	#34#	U
	S	#63#name#	U
Stop Delay Control	M	#11#0#	
	S	#63#name#0#	



TEMPERATURE CONTROL

Set range and mode (heater control)	M	#24#0#1#LowTemp#HighTemp#	
	S	#67#name#1#LowTemp#HighTemp#	
Set range and mode (cooling control)	M	#24#0#2#LowTemp#HighTemp#	
	S	#67#name#2#LowTemp#HighTemp#	
Check range and mode	M	#32#	U
	S	#66#name#	U
Temperature Control - OFF	M	#23#0#0#	
	S	#66#name#0#	
Temperature Control - on	M	#23#0#1#	
	S	#66#name#1#	

TEMPERATURE ALERT

Set temperature range	M	#22#0#LowTemp#HighTemp#	
	S	#69#name#LowTemp#HighTemp#	
Check current temperature and alert range	M	#35#0#	U
	S	#68#name#	U
Temperature Alert - OFF	M	#21#0#0#	
	S	#68#name#0#	
Temperature Alert - on	M	#21#0#1#	
	S	#68#name#1#	

NOTIFICATIONS

SMS when Manual button  used - off	#03#0#
SMS when Manual button  used - ON (to Master & Users)	#03#1#
SMS when power is lost / returns - off	#05#0#
SMS when power is lost / returns - ON (to Master & Users) (1)	#05#1#
SMS notifications to users - OFF	#16#0#
SMS notifications to users - on (must be on for Users to receive notifications)	#16#1#
SMS when mobile signal is weak - OFF	#27#0#
SMS when mobile signal is weak - on (to Master) (2)	#27#1#
SMS when Temperature Control enabled - off	#37#0#
SMS when Temperature Control enabled - ON (to Master)	#37#1#
SMS when Schedule Control enabled - off	#38#0#
SMS when Schedule Control enabled - ON (to Master)	#38#1#
SMS when outlet switched on or off by phone call - OFF	#49#0#
SMS when outlet switched on or off by phone call - on (3)	#49#1#

(1) Main Unit only. Slave units cannot report power loss or return.

(2) There must be enough mobile signal for the SMS to be sent.

(3) Notification when outlet switched by APP, SMS or phone call is to the user sending the command only.

MASTER & USER MANAGEMENT

Set as Master (new / after factory reset)	#00#
Change Master number	#14#NewNumber#
Add user	#06#UserNumber#
List users	#06#
Delete user	#15#UserNumber#
Delete all users	#15#

International mobile number format (e.g. +467xxxx) recommended

ADD AND REMOVE SLAVE UNITS

Add new Slave Unit with name (max 7 chars a-z, A-Z, 0-9)	#60#name#
Remove Slave Unit	#71#name#
Remove all Slave Units	#71#

SENSOR ALARMS ON/OFF OR SET A SCHEDULE (YOYOPower 4G Control only)

Sensor alarms - OFF	#40#0#
Sensor alarms - on	#40#1#
Set schedule for sensor alarms to be on	#46#Day#OnTime#OffTime#
Sensor alarm schedule - OFF	#47#0#
Sensor alarm schedule - on	#47#1#

Day: 0 - Every day; 1 - Monday; 2 - Tuesday; 3 - Wednesday; 4 - Thursday; 5 - Friday; 6 - Saturday;

7 - Sunday; 8 - Monday to Friday; 9 - Weekend (Saturday & Sunday)

OnTime & OffTime in 24 hour format e.g. 0030, 0830, 1200, 1730, 2230

WIRELESS SENSORS AND REMOTE CONTROLS (YOYOPower 4G Control only)



Add sensor (SMS alarm <i>only</i> when sensor alarms are on)	#30#1#SensorName#
Add sensor (SMS alarm <i>even</i> when sensor alarms are off)	#30#2#SensorName#
List all registered wireless sensors	#30#
Remove sensor	#44#SensorName#
Remove all sensors	#44#
Add wireless remote control (maximum 2)	#30#3#
Remove all wireless remote controls	#45#
Add Wireless Siren (set Siren to pairing mode first)	#43#
Test paired wireless siren(s)	#43#

SensorName max 10 chars: a-z, A-Z, 0-9 only; no spaces, accents or special chars.

Short press on Wireless Siren button to set it to pairing mode before sending #43#

10 Second press on Wireless Siren button resets it and cancels its pairing with YOYOPower units.

OTHER COMMANDS

Phone call switches outlet on/off - off	#09#0#
Phone call switches outlet on/off - ON	#09#1#
Beep when Main Unit switched using  button - off	#13#0#
Beep when Main Unit switched using  button - ON	#13#1#
Reset Main Unit to default settings (factory reset)	#08#Password#
Change password (4 digits, default 1234)	#04#OldPassword#NewPassword#
SMS response language - english	#39#0#
SMS response language - SWEDISH	#39#1#

Factory Reset to default settings

- Press and hold the power button  (for up to 20 seconds) until the status indicator  stays on for 3 seconds.

or

- (Main Unit only) Send SMS command #08#Password#

Note: Factory Reset of the Main Unit by SMS removes Slave Units but does not reset them.

Troubleshooting Guide

Status indicators are off / no response to commands

- Check that there is power at the outlet in to which YOYOPower is plugged
- Check that the SIM card is correctly inserted (Main Unit)
- Factory Reset and reconfigure YOYOPower
- Contact your reseller for further support

Status indicator flashing quickly (Main Unit)

- No SIM Card installed or not fully inserted - check the SIM card is correctly installed
- Put the SIM card in a mobile phone and test it

Status indicator flashing slowly (Main Unit)

- Mobile coverage too weak – try YOYOPower Main Unit in a different location
- PIN set on SIM card – place SIM in to a mobile phone and switch off SIM PIN
- Check SIM Card works in a mobile phone

Power button doesn't switch the outlet ON or off

- Hold the button for two seconds until you hear a beep - a short press is not enough
- Wait for YOYOPower Main Unit to find the mobile network

No SMS response from YOYOPower

- Check SIM card has credit
- Check your phone is registered as Master or User and is using a valid command

YOYOPower responds "Master number already registered"

- Another mobile number is the master. Ignore this if you are a User setting up the YOYOPower app.
- Ask the Master to send #14#NewNumber# to change the Master number
- Perform a Factory Reset and configure YOYOPower again.

Status indicator flashing slowly (Slave Unit)

- 433MHz radio signal from Main Unit too weak – try moving the units closer together
- Interference from other radio devices nearby – move away from them

YOYOPower unexpectedly switches OFF or on

- Request a status report to check current status
- Request SMS notification when phone call switches outlet ON or OFF (send #49#1#)
- Disable the "phone call switches outlet ON or OFF" feature (send #09#0#)

Important information

Please read this information before using your YOYOPower.

Power Store

- YOYOPower 4G & GSM contain a small power store so that it can send an SMS when power is lost.
- The transmitter in YOYOPower 4G & GSM remains active for a while after it has been unplugged.

Safety and Usage Guidelines

- Read the terms and conditions for your SIM card and mobile operator service.
- When inserting or removing the SIM card, do not touch the gold connectors.
- Insert only a Mini (Standard) size SIM card. Make sure any Micro or Nano cut-outs are not broken.
- Treat your YOYOPower carefully; store it safely and do not drop or throw it.
- Do not expose your YOYOPower to dust, liquid, moisture or humidity; extreme high or low temperatures, naked flames, lit tobacco products or other heat sources.
- Do not use your YOYOPower in hospitals or near medical equipment.
- If you have personal medical devices such as a pacemaker, consult your physician and the manufacturer for advice.
- Do not use your YOYOPower in aircraft or in any place where use of radio transmitters is prohibited; where a potentially explosive atmosphere is present or in proximity to car airbags.
- Do not attempt to take your YOYOPower apart; there are no user-serviceable components inside the product.
- Do not allow children to play with your YOYOPower; small parts such as SIM cards could be detached and represent a choking hazard.
- For optimum performance do not cover your YOYOPower; position it with good access to the mobile signal.
- You should not rely on any SMS or phone call capability that your YOYOPower provides for emergency or essential communications.

Disposal and Recycling

- Do not dispose of your YOYOPower with normal household waste.
- Dispose of your YOYOPower at an appropriate collection point for electronic equipment.
- For more information, contact your local authority, your household waste collection depot or the retailer where you purchased your YOYOPower.