

YOYOPower Plus 4G[®]

Remote and automatic power control and monitoring

USER'S MANUAL WITH QUICK START GUIDE

Get started quickly with your **YOYOPower Plus** device and the **YOYOPower SMS 2.0** mobile app with sections 1-3. Dive into the features and settings in the following sections.

REMOTE POWER SWITCHES

Turn **power OFF/ON remotely** or **automatically**. Monitor **temperature**, **power consumption**, etc. Receive **SMS alerts** in the event of a **power outage**, **overload**, or when **power load (W)** or **temperature** deviates. Expand with **wireless alarm accessories** for home alarm functionality.

- ▶ YOYOPower Plus 4G Switch (EXP)
- ▶ YOYOPower Plus 4G Control (EMP)
- ▶ YOYOPower Plus 4G Outdoor (EOP)
- ▶ YOYOPower Plus Slave Unit (ESP)

The latest update of this document can be found here:
<https://yoyomotion.com/produktinformation/>

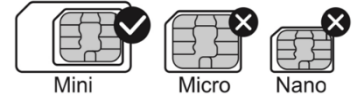


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1 Before you begin...



1.1 SIM cards and mobile network services

- ▶ Only insert standard Mini SIM cards, never Micro or Nano formats.
- ▶ The SIM card's PIN lock must be disabled.
- ▶ Two- or three-piece SIM card (Mini-Micro-Nano) that has been disassembled and reassembled must be completely flat.
- ▶ SMS service required. SIM cards with only mobile data traffic will not work.
- ▶ SIM cards with subscriptions or prepaid cards can be used but require a balance for SMS.

Read more about **SIM cards and mobile network services** that you can find a link to under **More information, support and guides on the web**, or by tapping (i) (info button) in the app (see below).

1.2 YOYOPower SMS 2.0 - mobile app for installation and operation



Google Play

The app creates SMS commands to control any YOYOPower model. Infinite number of YOYOPower units can be registered in the app. Phone numbers and settings are stored in the app and in the YOYOPower unit itself but nowhere else (no cloud service). The app is free of charge and advertising. Download the mobile app from Google Play™ or App Store™



App Store

YOYOPower can also be controlled using SMS commands only. See **Full SMS command list**.

1.3 Master and Users

YOYOPower Plus is controlled by a **Master** and up to **four Users**.

Master - has full authority to control all functions with SMS commands.

User - has the same permissions as Master except for reset and registration of Users.

If the phone call function is activated, Master and User can turn the power ON or OFF in YOYOPower also by a phone call. The function can be opened so that any phone number is allowed to call.

1.4 YOYOPower Models and Accessories Not Covered

YOYOPower 4G Relay and previous YOYOPower models (without “Plus” in the name) as well as accessories are described in separate guides (see below) and are not covered by this document.

1.5 More information, support and guides on the web

YOYOPower Plus 4G - Users's Manual with Quick Start Guide (latest version of this document:

- **Digital** - use link / QR code on the front page of this document or tap (i) (info symbol) at the top of start page in the mobile app.
- **Printed copy** - order at <https://yoyomotion.com/butik/>. Shipping cost may be added.

YOYOPower Product and Support Information – link/QR code on the front page of this document:

- Guides and operating instructions for all YOYOPower models and accessories
- Advice on choosing SIM cards and mobile network services for YOYOPower
- FAQs and troubleshooting guide for YOYOPower
- Product sheets and Technical specifications for all YOYOPower models

YOYOPower Plus product homepage - link and QR code on the last page of this document.

1.6 Ways of contact to Yoyomotion

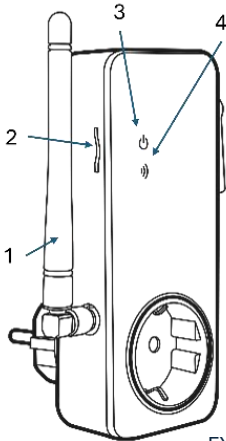
- ▶ Ordering of products, accessories and spare parts: <https://yoyomotion.com/aterforsaljare/> or <https://yoyomotion.com/butik/>
- ▶ Other orders, deliveries and commercial matters: sales@yoyomotion.com
- ▶ Product Support form <https://yoyomotion.com/supportformular/>
- ▶ Other support, product information, comments, complaints, etc.: support@yoyomotion.com
- ▶ General and other business: info@yoyomotion.com

2 Get to know the YOYOPower Plus models

All YOYOPower Plus models can be controlled remotely so that the power is turned ON or OFF on demand or automatically with schedule or when the temperature changes. They can be set to notify by SMS when the ambient temperature and power output (W) deviates from the set level and in the event of a power failure. Terms used in this document are explained below.

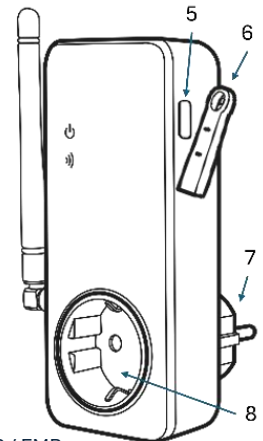
2.1 YOYOPower Plus 4G Switch (EXP) and YOYOPower Plus 4G Control (EMP)

Main unit with temperature sensor and external 4G antenna. Wireless accessories can be connected to EMP, e.g. Slave unit, wireless temperature and light sensor, alarm sensors (smoke, water, movement, door/window opening) and siren and remote control.



EXP / EMP

1. 4G antenna with screw connector, detachable
2. SIM card slot (Mini format)
3. Status indicator - Power ON or OFF
4. Status indicator - System and Connection Status
5. Power ON/OFF and reset button
6. Temperature sensor in 3.5 mm socket, removable
7. Mains Plug, grounded
8. Mains Socket, grounded

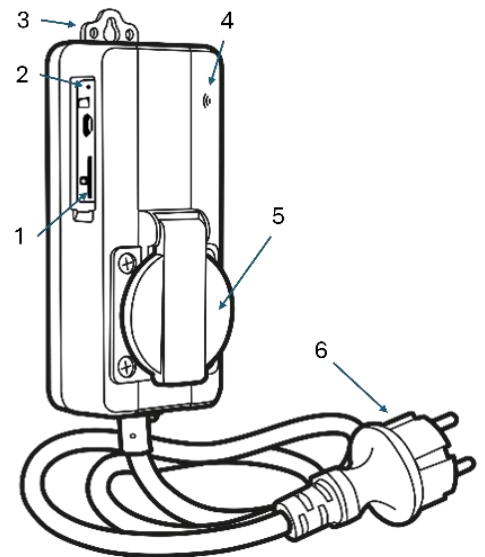


EXP / EMP

2.2 YOYOPower Plus 4G Outdoor (EOP)

Same function as EMP. Built-in 4G antenna and without socket for temperature sensor.

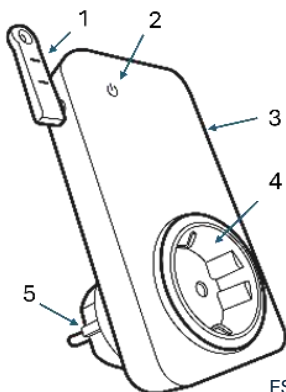
1. SIM card slot (Mini format), behind protective cover
2. Power ON/OFF and reset button, behind protective cover
3. Loops for hanging and mounting
4. Status indicator – Power, system and connection status
5. Mains Socket with protective cover, earthed
6. Mains Plug, grounded



EOP

2.3 YOYOPower Plus Slave Unit (ESP)

Wireless accessory for EMP and EOP. Same function as EMP. Wireless accessories cannot be connected.



ESP

1. Temperature sensor in 3.5 mm socket, removable
2. Status indicator - Power, system and connection status
3. Power ON/OFF and reset button (not visible in picture)
4. Mains Socket, grounded
5. Mains Plug, grounded

2.4 YOYOPower Plus - features per model





































YOYOPower Plus 4G Model	Switch EXP	Control EMP	Outdoor EOP	Extraenhet ESP
Expansion with YOYOPower Plus Slave unit Up to 4 slave units can be connected.	○	●	●	
Remote manual power control With app, SMS, phone call or remote control (accessory).	● ¹	●	●	● ^{1,2}
Automatic power control By weekly schedule, thermostat or delay.	●	●	● ³	●
Automatic power control with twilight relay Power control with wireless light and temperature sensor.	○	● ⁴	● ⁴	○
Power failure alarm SMS when the power is lost and when it returns.	●	●	●	●
Temperature monitor SMS at deviations in temperature.	●	●	● ³	●
Home alarm functions Detection and alarm with wireless alarm sensors (accessory).	○	●	●	○
Power monitoring Status, SMS at load over 3500W and deviation (1-3500W).	●	●	●	●
Power consumption Consumption (kWh); current status and periodic report.	●	●	●	●
Outdoor usage Grounded power socket, IP44.	○	○	●	○

- 1 - Cannot be controlled by remote control.
- 2 - Cannot be controlled by phone call.
- 3 - Accessorie WTLP is required for temperature functions.
- 4 - Accessories WTLP is required for twilight function.

NOTE:

All YOYOPower Plus models have internal power back-up in fixed energy-storing and maintenance-free capacitors. They don't obsolesce (like batteries do) and don't need to be replaced. In the event of a power failure, the power back-up keeps the YOYOPower unit and mobile connection running for up to one minute, sufficient and only to notify the power failure via SMS.

2.5 Status indication with LED

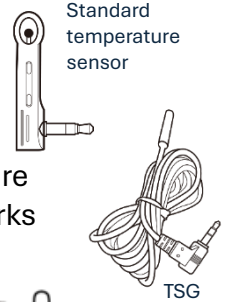
EXP / EMP	EOP	ESP
		
Power ON	Power ON	Power ON
Power ON	Alarm On, Standby	Standby
		
Power OFF	1.5 s	Connection problem
Power OFF	Connecting...	Connection problem
		
Power ON	Alarm OFF, Standby	Standby
Power ON	Alarm OFF, Standby	Standby
		
1.5 s	Processing...	Connection problem
Connecting...	Processing...	Connection problem
		
Alarm ON, Standby	Connection problem	Connection problem
Alarm ON, Standby	Connection problem	Connection problem
		
1.5 s	Pairing... Alarm activating...	Connection problem
Connecting...	Pairing... Alarm activating...	Connection problem
		
Alarm OFF, Standby	Alarm On, Standby	Connection problem
Alarm OFF, Standby	Alarm On, Standby	Connection problem
		
Processing...	1.5 s	Connection problem
Processing...	Connecting...	Connection problem
		
Connection problem	Alarm OFF, Standby	Connection problem
Connection problem	Alarm OFF, Standby	Connection problem
		
3 s	Processing...	Connection problem
Resetting...	Processing...	Connection problem
Resetting...	Processing...	Connection problem
		
3 s	Connection problem	Connection problem
Resetting...	Connection problem	Connection problem
Resetting...	Connection problem	Connection problem
		
3 s	Pairing..., Alarm activating...	Connection problem
Resetting...	Pairing..., Alarm activating...	Connection problem
Resetting...	Pairing..., Alarm activating...	Connection problem

3 Prepare and activate YOYOPower Plus

3.1 Mount the temperature sensor

Applies to all YOYOPower models. For EOP accessory light and temp sensor (WTLP) is required.

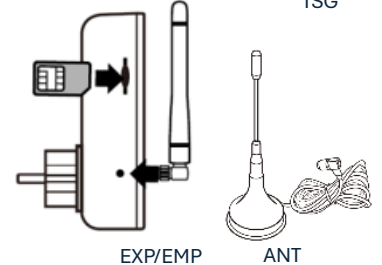
Insert the sensor into the socket on the side of YOYOPower and push it all the way in. A standard L-shaped temperature sensor is included in the package. Alternative temperature sensors, either on cable (TSG) or wireless WTLP, are available as accessories. WTLP works with EMP and EOP.



3.2 Mount the 4G antenna

Does not apply to EOP and ESP

Screw the included rod antenna onto the threaded connector on the side of YOYOPower. An optional 4G antenna on a magnetic base and cable is available as accessory. EOP has a built-in 4G antenna, thus no connector. ESP has a built-in antenna for wireless local connection to the Main unit.

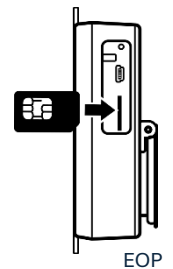


3.3 Insert a SIM card with SMS service

Applies to all YOYOPower Plus models except ESP

Slide in any SIM card* (not included) with the cut-off corner first (contact side facing up). When you feel a spring pressing back, push the SIM a little further until it clicks into place. To remove the SIM just press it in (e.g. with a fingernail) and it springs back out.

*Read about [SIM cards and mobile network services](#) under [Before you begin...](#)



3.4 Start up YOYOPower

Plug YOYOPower into an electrical outlet (110-240V). The wireless connection is initiated by a short beep (not ESP) and a flashing status indicator. Completed connection is indicated by a longer beep (not ESP) at which point the status indicator fades in and out slowly (it is "breathing"). Failed connection is indicated by three short beeps (not ESP) and a continuously rapidly flashing status indicator. Check then that the SIM card is inserted, that the PIN code lock is disabled and that the SMS service is active. The status indicator is further described in section [Status indication with LED](#).

NOTE: Temperature sensor (not EOP), 4G antenna (not EOP and ESP), and SIM card (not ESP) must be mounted when the unit starts up.

3.5 Register YOYOPower in the app and activate unit

Applies to all YOYOPower Plus models except ESP

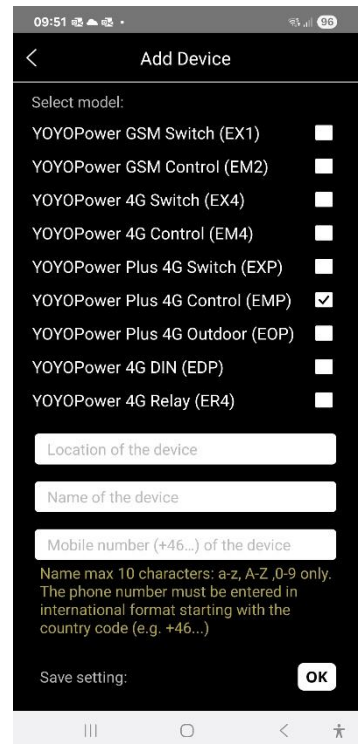
YOYOPower is activated after registration in the **YOYOPower SMS 2.0™** app:

1. Tap **+ Add new** on the start page of the app.
2. Check your **model** (be sure to choose the right one), fill in **Location** (e.g. Cottage), **Name** (e.g. Heater1) and **Mobile number**¹.
3. Tap **OK** and send the SMS that is created. Activation and registration is confirmed by SMS.

Tap the back arrow in the top left corner to return to the app.

Path in the app: start page>"Add new"

Therby, YOYOPower is in operating mode and ready for use. The above can also be carried out without an app, by typing and sending SMS command **#00#**. See section [Full SMS Command List](#).



YOYOPower SMS 2.0 app, Registration page

¹ **Mobile number** – of SIM of YOYOPower, number in international format with initial country code e.g. +46... +47...

3.6 Check that YOYOPower is in operating mode

For example, check by turning the power ON and OFF in one of the following ways:

- Short press the button on the unit. The power mode switches to ON and OFF every other time.
- Press the **green Power ON** button or the **red Power OFF** button in the app.

Paths in the app:

Start page>green button (power plug symbol) or red button (crossed power plug symbol)

Start page>Function page/green button "Power ON" or red button "Power OFF"

- Send SMS commands #01# to turn the power ON and #02# to turn the power off. The new power state is confirmed with an SMS response with status information.

3.7 Extend YOYOPower Plus with a Slave unit

Applies to EMP and EOP, not EXP

Make sure that the **YOYOPower Plus Main unit** (EMP or EOP) is enabled and that the Slave unit to be connected is not powered.

1. Open the **YOYOPower SMS 2.0** app and select the Main unit to be used
2. Tap **+ Add Slave Unit**
3. Enter any **Name**² for the Slave unit to be connected (e.g. Heater2)
4. Tap **OK** and send the SMS that is created
5. Wait for an SMS reply with "**Connect Slave unit "Name" now!**". A short beep from the Main unit indicates that pairing mode has been initiated. The status indicator flashing (see section [Status Indication with LED](#)) indicates ongoing pairing mode.
6. Plug the Slave unit into a power outlet within two minutes and wait for SMS confirmation with the text **Slave Unit "Name" – CONNECTED**.

Completed registration and commissioning are indicated by a long beep from the Main unit, at which point the pairing mode is terminated. Status indicator on both Main and Slave unit returns to normal mode.

Failed registration and pairing are indicated by three short beeps, at which point the pairing mode ends. Start over by removing the Slave unit by pressing the button with a dustbin.

NOTE:

- A maximum of 4 Slave units can be added to each Main unit (EMP or EOP).
- The Slave unit does not emit any sound signals.
- If the Slave unit was previously linked to another Main unit, the Slave unit must first be deregistered in the previous Main unit.
- YOYOPower Slave Unit model ES2 from previous YOYOPower generation cannot be connected to the new YOYOPower Plus models (EMP or EOP).
- YOYOPower Plus Slave Unit model ESP cannot be connected to older YOYOPower models YOYOPower GSM (EM2) and YOYOPower 4G (EM4).
- YOYOPower Plus 4G Switch (EXP) cannot be extended with Slave units.

Path in the app: Start page>Function page>Device settings>Slaves

² **Name** = max 7 characters, A-Z, a-z, 0-9, without space, symbols and non-english letters.

4 Set up and use YOYOPower Plus functions

4.1 Control power manually on demand

Power from YOYOPower can be turned ON or OFF at any time in various ways remotely or on-site. When the power state is switched remotely, the new status is confirmed by SMS back to the sender. The SMS response includes current power state (Power ON or OFF), current temperature (-30°C to 100°C), and tells if any automatic power control functions (D, T, S) is running:

'D' indicates that automatic power control with **D**elayed power switching (ON or OFF) is enabled.

'T' indicates that automatic power control with **T**hermostat is enabled.

'S' indicates that automatic power control on **S**chedule is enabled.

'L' indicates that automatic power control with **L**ightsensor is enabled.

4.1.1 Manual power ON/OFF remotely by using the mobile app

Applies to all YOYOPower models

Power from YOYOPower can be turned ON or OFF at any time using the mobile app. On the start page or function page, tap the **green** button or the **red** button and send the SMS that is created.

Paths in the app:

Start page>green button (power plug) or red button (crossed power plug)

Start page>Function page>green button ("Power ON") or red button ("Power OFF")

4.1.2 Manual power ON/OFF remotely by SMS command

Applies to all YOYOPower models

Power from YOYOPower can be turned ON or OFF at any time by SMS commands.

See section [Full SMS command list](#).

4.1.3 Manual power ON/OFF remotely by phone call

Applies to all YOYOPower Plus models except ESP

Power from YOYOPower can be switched ON or OFF by a phone call from a registered phone number (i.e. Master or Users). By altering the restriction, calls from any number are accepted. By default, this function is disabled, i.e., incoming phone calls are ignored.

Path in the app: Start page>Function page>Power control>Phone call

When power has switched by a phone call, the new power state can be notified by SMS to the caller. By default, there is no notification.

Path in app: Start page>Function page>Device settings>Notifications>Power ON/OFF by phone call

4.1.4 Manual power ON/OFF locally using physical button on the unit

Applies to all YOYOPower models

Power from YOYOPower can be switched ON or OFF by pushing a button on the side of YOYOPower. The new power state can be notified by SMS to the Master. By default, there is no notification.

Path in the app: Start page>Function page>Device settings>Notifications>"Power ON/OFF by button"

NOTE: Holding the button for too long (10-15 sec), until a long beep is heard, will reset YOYOPower. Master and registered Users are then deregistered and all settings are restored to their original state.

4.1.5 Manual power ON/OFF locally with remote control (WRCP)

Applies to EMP and EOP, Remote Control (WRCP) accessory is required

Models EMP and EOP can be expanded with wireless accessories such as a remote control (WRCP). By pressing a button of the remote control, the power from YOYOPower is switched. Power state switched by remote control is not notified by SMS. Connect and use WRCP as described in the guide that comes with the accessory or download it (link/QR code on the front of this document or info button at the start page in the mobile app).

4.2 Automatic Power Control

Power from YOYOPower can automatically switches with delay, by schedule, with a connected light sensor and/or by thermostat.

NOTE:

- While power control with delay is in progress, other set power control automatics (i.e. power control by schedule, with light sensor and/or by thermostat) are paused.
- While power control by scheduled is in progress, power control with light sensor and/or thermostat will only be active when power ON is scheduled.
- While power control with light sensor is in progress, power control by thermostat will only be active when the power is ON according to the light sensor function (i.e. when it has become dark).
- Manual switching of the power (SMS, phone call, remote control or button) temporarily overrides the automatically set power state until the next power switch occurs automatically or manually.
Example 1: Power is ON according to the set schedule and is turned OFF with button. The power will remain OFF until the next scheduled Power ON occurs.
Example 2: Power is ON according to light sensor and turns OFF with button. Power will remain OFF until the next light sensor-controlled Power ON occurs.

Path in the app: Start page>Function page>Power control

4.2.1 Automatic power ON/OFF with thermostat

Applies to all YOYOPower models, for EOP accessory temperature and light sensor (WTLP) is required

Power from YOYOPower to e.g. a heater can switch ON and OFF automatically with ambient temperature variations. Set the operating mode; heating or cooling and upper and a lower temperature levels to be monitored. The maximum temperature range is -30°C to +100°C using the optional temperature sensor on cable. With other temperature sensors, the range is smaller. Read more about the temperature sensor options in section [Temperature monitor](#).

"**Heating**" - power turns ON when the ambient temperature falls below the set temperature range and OFF when the range is exceeded.

"**Cooling**" - power turns ON when the ambient temperature exceeds the set temperature range and to OFF when the range is undercut.

By default, the thermostat function is OFF, in heating mode and the temperature range is 18-24°C.

NOTE:

- Power ON/OFF with thermostat is processed once per minute.
- If contact with the temperature sensor is lost or the sensor is damaged while Power ON/OFF with thermostat is activated, the power state will automatically switch to Power OFF.

Path in the app: Start page>Function page>Power control>Thermostat

4.2.2 Automatic power ON/OFF with weekly schedule

Applies to all YOYOPower models

Power from YOYOPower to e.g. lights can switch ON and OFF automatically on weekly schedule. Three schedules per week can be set, each power ON period with a start time and an end time (00:00 – 23:59) on one or several weekdays (Mon, Tue, Wed, Thu, Fri, Sat, Sun).

By default, Power ON/OFF by schedule is disabled, and the time intervals are preset to 00:00-00:00.

NOTE: With schedule function ON and interval 00:00 - 00:00, the power remains off around the clock.

Path in the app: Start page>Function page>Power control>Schedule

4.2.3 Automatic power ON/OFF with delayed activation

Applies to all YOYOPower models

Power from YOYOPower to e.g. an engine heater can switch ON or OFF automatically with a countdown timer (1 to 720 minutes). By default, delayed activation is disabled.

Path in the app: Start page>Function page>Power Control>Delay

4.2.4 Automatic power ON/OFF with light sensor (Twilight relay)

Applies to EMP and EOP models, accessory temperature and light sensor (WTLP) is required

Power from YOYOPower, to e.g. outdoor lighting, can be turned ON and OFF automatically when ambient light conditions change. With enabled twilight function the power turns ON at dusk and OFF at dawn (default) or OFF within 1-8 hours after dusk. By default, the twilight function is OFF. This function requires an optional wireless light sensor (WTLP). See section [Accessory - Wireless Light and Temperature Sensor \(WTLP\)](#).

Path in the app: Start page>Function page>Power control>Twilight

4.3 Power monitoring

Power supply, power load and power consumption can be monitored and reported.

4.3.1 Power supply failure alarms

Applies to all YOYOPower Plus models

Power supply interruptions can be notified by SMS. Also restored power supply is notified. By default, the function is enabled with notification to Master.

Path in the app: Start page>Function page>Power monitoring

NOTE: For notification to registered Users, SMS to Users needs to be activated.

Path in the app: Start page>Function page>Device settings>Notifications

4.3.2 Power load (W) – alert deviation & report

Applies to all YOYOPower Plus models

The power output load (W) from connected appliance e.g. a fan, a pump or a radiator, can be monitored. The power load range to be monitored is set with an upper and a lower load level. The maximum range is 0-3500W. Deviations from the set power load range are notified by SMS. By default, the function is not enabled. Current power output load level can be requested at any time.

Path in the app: Start page>Function page>Power monitoring

4.3.3 Overload protection (W) – cut off power & alert

Applies to all YOYOPower Plus models

If the power load exceeds 3500 W for approximately 10 seconds, the power is automatically cut off and notified by SMS. Power is turned ON again locally by pressing the button of the unit or remote control or remotely using the Power ON button of the app, by sending SMS command or by phone call.

4.3.4 Power consumption (kWh) - reports

Applies to all YOYOPower Plus models

The power consumed (kWh) by connected appliance is monitored and can be reported on request or periodically. On request, current consumption since the beginning of the day, week or month is reported. Automatic report is delivered at the end of each day, week or month. By default, this feature is OFF.

NOTE: Measured power consumption is reset to zero when the power supply of YOYOPower is lost.

Path in the app: Start page>Function page>Power monitoring

4.4 Alarms of events and deviations

4.4.1 Connected Home alarm function with wireless alarm sensors and accessories

Applies to EMP and EOP models, requires connected alarm accessories

Main units EMP and EOP can be expanded with up to **6 wireless alarm sensors** (detection of smoke, water, motion, door/window opening), **2 remote controls** and **1 or more sirens**. Each wireless accessory can be connected to multiple Main units.

Alarms from sensors are notified by SMS, beeps (0-60 seconds) and/or siren (if connected). The Home alarm function can be turned ON and OFF remotely using the app or SMS commands, locally by remote control or automatically by schedule. After an alarm, the alarm function is paused for 60 seconds (not applicable to direct alarms from remote control).

Path in the app: Start page>Function page>Alarm>Home alarm

Registered Users can also receive alarm notifications via SMS.

Path in the app: Start page>Function page>Device settings>Users>SMS to User ON/OFF:

NOTE: Previous generation YOYOPower wireless accessories (models WSD, WLD, WDS, WIR, WRC and WSS) cannot be used with the new YOYOPower Plus Main units. The same goes for the reverse, i.e. new YOYOPower Plus wireless accessories (WSDP, WLDP, WDSP, WIRP, WRCP, WSSP and WTLP) cannot be used with previous YOYOPower 4G and YOYOPower GSM Main units.

4.4.1.1 Temporarily and permanently active wireless alarm sensors

Alarm sensors are registered with a name and operating mode (temporary or permanent).

"**Temporary**" – sensors raise alarms only when the Home alarm function is ON.

"**Permanent**" - sensors raise alarms regardless if the alarm function is ON or OFF.

Path in the app: Start page>Function page>Alarm>Home alarm>Wireless alarm sensors

4.4.1.2 Connect wireless alarm sensors to the Main unit

Follow the description in the guide that comes with the accessory or download it (link/QR code on the front of this document or info button at the start page in the **YOYOPower SMS 2.0** mobile app).

4.4.2 Temperature monitor

Applies to all YOYOPower Plus models, for EOP accessories light and temp sensor are required

With the temperature alarm function activated, the ambient temperature is monitored and deviations are notified via SMS. The function can be set and activated in each YOYOPower unit individually. The temperature range to be monitored is set with an upper and a lower temperature level. The maximum temperature range is -30°C to +100°C using optional **Accessory - Cable Temperature Sensor (TSG)**. With other temperature sensors, the range is smaller (see each sensor below).

By default, the temperature monitor function is OFF and the temperature range is preset to 20-25°C.

NOTE:

- The temperature is measured and processed in YOYOPower once per minute.
- The temperature monitor and thermostat are independent functions and are set separately.

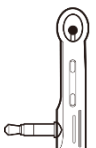
Path in the app: Start page>Function page>Alarm>Temperature alarm

4.4.2.1 Standard temperature sensor included in delivery

Applies to all YOYOPower models, except EOP

YOYOPower wall socket models (except EOP) come with an L-shaped temperature sensor that has a measurement range of -10°C to +50°C. The temperature sensor is used to:

- At any time obtain the current temperature at YOYOPower with the mobile app or SMS command
- Notify deviations from the preset temperature range. See **Temperature monitor**.
- automatically turn the power ON and OFF when the ambient temperature deviates from the preset temperature range. See **Automatic power ON/OFF with thermostat**.

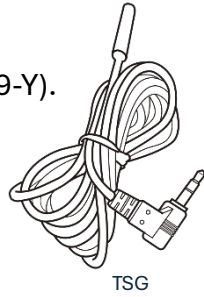


4.4.2.2 Accessory - Cable Temperature Sensor (TSG)

Applies to all YOYOPower models, except EOP

Optional wired temperature sensors are available as accessory (2 m TSG-019-Y, 5 m TSG-019-Y). The measuring range of these is extended to -30°C to +100°C. The sensor head is waterproof and can even be frozen. Apart from that, these sensors have identical function to the **Standard temperature sensor that is included in the delivery** and use the same socket.

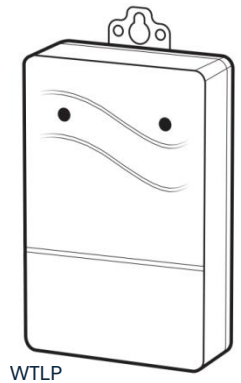
NOTE: Sensors other than those from Yoyomotion cannot be connected. Even if they have the same connector (3.5mm), they can damage the electronics in YOYOPower.



4.4.2.3 Accessory - Wireless Temperature and Light Sensor (WTLP)

Applies to EMP and EOP models

An optional wireless temperature and light sensor is available as accessory (WTLP-098-Y). The measuring range of WTLP is -20°C to +50°C. WTLP is weatherproof and can be mounted outdoors. Apart from that, WTLP has identical function to the **Standard temperature sensor that is included in the delivery**. Connect and use WTLP as described in the guide that comes with the accessory or download it (link/QR code on the front of this document or info button at the start page in the app).



4.5 Device settings

4.5.1 Status reports

Applies to all YOYOPower models

The general status request returns the status of current power mode (OFF or ON), temperature level (°C), and power output (W). If there are connected Slave Units, the status of these are provided too.

Paths in the app:

Start page>Function page>"Device status" button (? symbol)

Start page>Function page>"All" button (? Symbol)

Works with EMP and EOP

Status requests can also be made specifically for the following functions:

Automatic power ON/OFF with thermostat

Path in the app: Start page>Function page/Power control>Thermostat>Check actual status

Automatic power ON/OFF with weekly schedule

Path in the app: Start page>Function page>Power control>Schedule>Check actual status

Power Control with Delay

Path in the app: Start page>Function page>Power control>Delay>Check actual status

Automatic power ON/OFF with light sensor (Twilight relay)

EMP and EOP only

Path in the app: Start page>Function page>Power control>Twilight>Check actual status

Power load (W) – alert deviation & report

Path in the app: Start page>Function Page>Power Monitoring>Check actual power Load

Power consumption (kWh) - reports

Path in the app: Start page>Function page>Power monitoring>Check actual power consumption

Connected Home alarm function with wireless alarm sensors and accessories

EMP and EOP only

Path in the app: Start page>Function page>Alarm>Home alarm>Check actual status

Temperature monitor

Path in the app: Start page>Function Page>Alarms>Temperature Monitor>Check actual status

Users

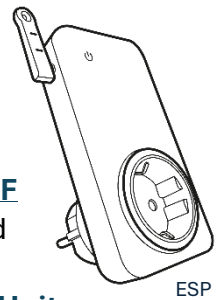
Path in the app: Start page>Function page>Device settings>Users>Check registered Users

TIP: Do you want automatic status reports every day, week or month? Then enable periodic power consumption reports. See section **Power consumption (kWh) - reports** under **Power monitoring**.

4.5.2 Slave units (ESP)

Applies to EMP and EOP models

Some YOYOPower models can be expanded with up to four wireless Slave. A total of five separate power sockets can be controlled individually with only one SIM card in the Main unit. The Slave unit has the same functions as the Main unit except **Manual power ON/OFF remotely by phone call**, **Automatic power ON/OFF with light sensor (twilight relay)** and **Connected Home alarm function with wireless alarm sensors and accessories**.



Commission the Slave unit as described in section **Extend YOYOPower Plus with an Slave Unit**.

Path in the app: Start page>Function page>Device settings>Slaves

4.5.3 Users

Applies to all YOYOPower models

Masters who have full permissions and control over YOYOPower can add up to four Users. With a few restrictions, Users have permission to control YOYOPower and receive notifications. By default notifications to Users are disabled.

Path in the app: Start page>Function page>Device settings>Users

4.5.4 Notifications

Applies to all YOYOPower models

YOYOPower can provide notifications for various events. Some notifications can be turned OFF or ON:

- at **Power supply failure alarms**
- at **Manual power ON/OFF locally using physical button on the unit**
- at **Automatic power ON/OFF with thermostat**
- at **Automatic power ON/OFF with weekly schedule**
- at **Manual power ON/OFF remotely by phone call**
- at low signal level from the mobile network

Path in the app: Start page>Function page>Device settings>Notifications

- when the power load (W) deviates from the set power range. See section **Power monitor (W)**

Path in the app: Start page>Function page>Power monitoring

- notifications to **Users**

Path in the app: Start page>Function page>Device settings>Users

NOTE: Overload protection (W) – cut off power & alert can't be disabled.

4.5.5 Language of app and SMS from YOYOPower

Applies to all YOYOPower models except ESP

The language in the app and in SMS messages can be switched between Swedish and English.

Path in the app: Start page>Feature page>Device Settings>Language

4.5.6 Registration of the YOYOPower Main unit in the app

Applies to all YOYOPower models except ESP

The registered Location, Name and Mobile Phone Number in the app may be changed.

Path in the app: Start page>Function page>Device settings>Registration

4.5.7 Password (reset code) of the YOYOPower Main unit

Applies to all YOYOPower models except ESP

The password required for remote reset (see below) is by default 1234. The Master can change the password using the app **YOYOPower SMS 2.0** or by SMS command.

Path in the app: Start page>Function page>Device settings>Password

4.5.8 Reset the YOYOPower unit

Applies to all YOYOPower models

Upon reset, all settings return to original defaults ("factory reset"). Master and Users are deregistered. The unit needs to be running (powered with a flashing status indicator) to reset. If the YOYOPower has just been plugged into a power outlet, wait for about 1.5 minutes until you hear two (mounted SIM) or three quick beeps (without SIM).

For **local reset with button**, YOYOPower does not need to have a SIM card inserted.

Press and hold the reset button for about 10 seconds until you hear a long beep. See [Get to know the YOYOPower Plus models](#) to find the button.

For **remote reset by SMS-command**, YOYOPower needs to have a mounted and working SIM card and be connected to the mobile network.

In the app, under Reset, enter the current reset code, see [Password \(reset code\) of the YOYOPower Main unit](#). Press **OK** and send the SMS to the mobile number associated with the SIM card in YOYOPower. The SMS command can also be composed manually. See the [Full SMS command list](#).

Path in the app: Start page>Function page>Device settings>Reset

NOTE: Slave units can be deregistered in the Main unit remotely but can only be reset locally by pressing the physical button.

4.5.9 Restart the YOYOPower Main unit

Applies to all YOYOPower Plus models

When restarting the Main unit, SIM cards are detected, a new connection to the mobile network is made, temperature sensors are identified and any connection to Slave units and alarm accessories is made again. Previous settings are retained. Completed start-up is confirmed by SMS.

On-site reboot – remove the YOYOPower from the power outlet and plug it back in.

Restart remotely – with SMS command. See the [Full SMS Command List section](#) below.

NOTE: Slave units can only be restarted by unplugging the unit from the power outlet and plugging it back in.

4.6 Uninstall the YOYOPower unit and YOYOPower SMS 2.0 app

Phone numbers and possibly names of accessories that were registered when YOYOPower was activated, are stored in the YOYOPower unit and are deleted when the unit is reset according to the [Reset the YOYOPower unit](#). If the app is used for resetting, the unit is also removed in the app.

5 Full SMS command list

SMS codes to control and configure all YOYOPower Plus models and accessories. On the right, you can see which models the command can be used on.

Function SMS command Applicable model

REGISTER MASTER AND ACTIVATE THE DEVICE

Master – register and manage		
Master – register mobile phone number and activate Main unit	#00#	EMP, EOP, EXP
Master - change to new mobile phone number	#14# MobileNumber#	EMP, EOP, EXP
Master and Users – check registered phone numbers	#06#	EMP, EOP, EXP
MobileNumber: phone number in international format (e.g. +46...), max 16 digits		

GET THE STATUS OF DEVICES AND FEATURES

Power ON/OFF - check the status of all units incl. Slave units	#07#	EMP, EOP
Power ON/OFF – check the status of the Main unit only	#07#0#	EMP, EOP, EXP
Power ON/OFF - check the status of individual Slave unit	#07# UnitName#	EMP, EOP (ESP)
Power ON/OFF with thermostat - check status	#32#	EMP, EOP, EXP
Power ON/OFF with thermostat in Slave unit - check status	#66# UnitName#	EMP, EOP (ESP)
Power ON/OFF with schedule - check status	#33#	EMP, EOP, EXP
Power ON/OFF with schedule in Slave unit - check status	#64# UnitName#	EMP, EOP (ESP)
Power ON/OFF with delay – check status	#34#	EMP, EOP, EXP
Power ON/OFF with delay in Slave unit - check status	#63# UnitName#	EMP, EOP (ESP)
Power ON/OFF with light sensor - check status	#55#	EMP, EOP
Power load (W) – check the status of all units	#51#	EMP, EOP, EXP, ESP
Power consumption (kWh) today since 00:00	#52#1#	EMP, EOP, EXP, ESP
Power consumption (kWh) this week since Monday	#52#2#	EMP, EOP, EXP, ESP
Power consumption (kWh) this month since the 1st	#52#3#	EMP, EOP, EXP, ESP
Home alarm function - check status and sensors	#30#	EMP, EOP
Temperature monitor - check status	#35#	EMP, EOP, EXP
Temperature monitor in Slave unit - check status	#68# UnitName#	EMP, EOP (ESP)
Users - check all registered phone numbers	#06#	EMP, EOP, EXP
Mobile network - check status (signal level and type)	#27#	EMP, EOP, EXP
Date and time – check the date and time	#00#	EMP, EOP, EXP
UnitName: max 7 characters, a-z, A-Z, 0-9, no spaces or other characters/symbols		

POWER CONTROL

Power ON/OFF remotely with SMS command		
Power ON/OFF - check the status of all units	#07#	EMP, EOP, EXP
Power ON for all units (incl. Slave units)	#01#	EMP, EOP, EXP
Power OFF for all units (incl. Slave units)	#02#	EMP, EOP, EXP
Power ON/OFF – check the status of the Main unit only	#07#0#	EMP, EOP, EXP
Power ON for Main unit only	#01#0#	EMP, EOP, EXP
Power OFF for the Main unit only	#02#0#	EMP, EOP, EXP
Power ON/OFF - check the status of individual Slave unit	#07# UnitName#	EMP, EOP (ESP)
Power ON for individual Slave unit - ON	#61# UnitName#	EMP, EOP (ESP)
Power OFF for individual Slave unit - OFF	#62# UnitName#	EMP, EOP (ESP)
Unit Name: max 7 characters, a-z, A-Z, 0-9, no spaces or other characters/symbols		

Power ON/OFF with thermostat (temperature control)		
Power ON/OFF with thermostat - check status	#32#	EMP, EOP, EXP
Power ON/OFF with thermostat - set mode & temperature range	#24#0# Mode#MinTemp#MaxTemp#	EMP, EOP, EXP
Power ON/OFF with thermostat – ON	#23#0#1#	EMP, EOP, EXP
Power ON/OFF with thermostat - OFF (default)	#23#0#0#	EMP, EOP, EXP
Power ON/OFF with thermostat in Slave unit - check status	#66# UnitName#	EMP, EOP (ESP)
Power ON/OFF with thermostat Slave unit - set mode/temp range	#67# UnitName#Mode#MinTmp#MaxTmp#	EMP, EOP (ESP)
Power ON/OFF with thermostat in Slave unit - ON	#66# UnitName# 1#	EMP, EOP (ESP)
Power ON/OFF with thermostat in Slave unit - OFF (default)	#66# UnitName# 0#	EMP, EOP (ESP)
Temperature Sensor: Wireless (WTLP)-ON, Plug-in Sensor-OFF	#10#1#	EMP (WTLP)
Temperature Sensor: Wireless (WTLP)-OFF, Plug-In-ON (default)	#10#0#	EMP
Mode: 1 = Heating, 2 = Cooling		
MinTemp/MaxTemp: -10 to 50 (degrees Celsius, no decimals) with standard temperature sensor -30 to 100 (degrees Celsius, no decimals) with temperature sensor on the cable (TSG) -20 to 50 (degrees Celsius, no decimals) with Wireless Temperature Sensor (WTLP)		
Unit Name: max 7 characters, a-z, A-Z, 0-9, no spaces or other characters/symbols		

Function	SMS command	Applicable model
Power ON/OFF with weekly schedule		
Power ON/OFF with schedule - check status	#33#	EMP, EOP, EXP
Power ON/OFF with schedule - set days and time for schedule 1	#20#0#1#Days#OnTime#OffTime#	EMP, EOP, EXP
Power ON/OFF with schedule - set days and time for schedule 2	#20#0#2#Days#OnTime#OffTime#	EMP, EOP, EXP
Power ON/OFF with schedule - set days and time for schedule 3	#20#0#3#Days#OnTime#OffTime#	EMP, EOP, EXP
Power ON/OFF with schedule - OFF (default)	#19#0#0#	EMP, EOP, EXP
Power ON/OFF with schedule in Slave unit - check status	#64#UnitName#	EMP, EOP (ESP)
Power ON/OFF with schedule in Slave unit - set days/time sched1	#65#UnitName#1#Days#OnTime#OffTime#	EMP, EOP (ESP)
Power ON/OFF with schedule in Slave unit - set days/time sched2	#65#UnitName#2#Days#OnTime#OffTime#	EMP, EOP (ESP)
Power ON/OFF with schedule in Slave unit - set days/time sched3	#65#UnitName#3#Days#OnTime#OffTime#	EMP, EOP (ESP)
Power ON/OFF with schedule in Slave unit - OFF (default)	#64#UnitName#0#	EMP, EOP
<i>Days:</i> 1 = Monday, 2 = Tuesday... 7 = Sunday <i>OnTime/OffTime:</i> hhmm (24 hours, 4 digits) <i>Unit Name:</i> max 7 characters, a-z, A-Z, 0-9, no spaces or other characters/symbols		

Power ON/OFF with delayed activation		
Power ON/OFF with delay – check status	#34#	EMP, EOP, EXP
Power ON/OFF with delay – set minutes to power ON	#12#0#Minutes#1#	EMP, EOP, EXP
Power ON/OFF with delay – set minutes to power OFF	#12#0#Minutes#0#	EMP, EOP, EXP
Power ON/OFF with delay function - OFF (default)	#11#0#	EMP, EOP, EXP
Power ON/OFF with delay in Slave unit - check status	#63#UnitName#	EMP, EOP (ESP)
Power ON/OFF with delay in Slave unit - minutes to power ON	#63#UnitName#Minutes#1#	EMP, EOP (ESP)
Power ON/OFF with delay in Slave unit - minutes to power OFF	#63#UnitName#Minutes#0#	EMP, EOP (ESP)
Power ON/OFF with delay in Slave unit - OFF (default)	#63#0#	EMP, EOP
<i>Minutes:</i> 1-720, <i>UnitName:</i> 7 characters max, a-z, A-Z, 0-9, no spaces or other characters/symbols		

Power ON/OFF remotely with phone call		
Power ON/OFF with phone call – ON	#09#1#	EMP, EOP, EXP
Power ON/OFF with phone call - OFF (default)	#09#0#	EMP, EOP, EXP
SMS when power status changes with phone call – ON (default)	#49#1#	EMP, EOP, EXP
SMS when power status changes with phone call – OFF	#49#0#	EMP, EOP, EXP
Power ON/OFF with phone call – allow all callers – ON	#31#1#	EMP, EOP, EXP
Power ON/OFF with phone call – allow all callers – OFF (default)	#31#0#	EMP, EOP, EXP

Power ON/OFF with light sensor/twilight relay (optional WTLP)		
Power ON/OFF with light sensor - check status	#55#	EMP, EOP (WTLP)
Wireless Temperature & Light sensor - pair	#30#4#	EMP, EOP (WTLP)
Wireless Temperature & Light sensor - remove	#45#2#	EMP, EOP (WTLP)
Power ON when it's dark and OFF when it's bright	#55#1#0#	EMP, EOP (WTLP)
Power ON when it's dark and OFF a few hours later	#55#1#Hours#	EMP, EOP (WTLP)
Power ON/OFF with light sensor - ON	55#1#	EMP, EOP (WTLP)
Power ON/OFF with light sensor - OFF (default)	#55#0#	EMP, EOP
Temperature Sensor: Wireless (WTLP)-ON, plug-in-OFF	#10#1#	EMP, EOP (WTLP)
Temperature Sensor: Wireless (WTLP)-OFF, plug-in-ON (default)	#10#0#	EMP
<i>Hours:</i> 1-8		

POWER MONITORING

SMS at power failure and power resume - ON (default)	#05#1#	EMP, EOP, EXP, ESP
SMS at power failure and poer resume - OFF	#05#0#	EMP, EOP, EXP, ESP
Power load (W) - check status	#51#	EMP, EOP, EXP, ESP
Power load (W) – set range to monitor	#53#0#LowWatt#HighWatt#	EMP, EOP, EXP, ESP
SMS when power load (W) is out of set range – ON	#53#0#1#	EMP, EOP, EXP, ESP
SMS when power load (W) is out of set range – OFF (default)	#53#0#0#	EMP, EOP, EXP, ESP
Power consumption (kWh) so far today from 00:00	#52#1#	EMP, EOP, EXP, ESP
Power consumption (kWh) so far this week since Monday	#52#2#	EMP, EOP, EXP, ESP
Power consumption (kWh) so far this month since the 1st	#52#3#	EMP, EOP, EXP, ESP
Power consumption (kWh) - report daily at midnight	#54#1#	EMP, EOP, EXP, ESP
Power consumption (kWh) - report weekly at the end of the week	#54#2#	EMP, EOP, EXP, ESP
Power consumption (kWh) - report monthly at the end of month	#54#3#	EMP, EOP, EXP, ESP
Power consumption report - OFF (default)	#54#0#	EMP, EOP, EXP, ESP
<i>LowWatt/HighWatt:</i> 0-3500, NOTE: All power monitoring commands apply to all connected units (including Slave units)		

ALARM

Home alarm		
Home alarm function - check status and sensors	#30#	EMP, EOP
Home alarm sensor - pair " Temporary " sensor	#30#1# <i>SensorName</i> #	EMP, EOP (sensor)
Home alarm sensor - pair " Permanent " sensor	#30#2# <i>SensorName</i> #	EMP, EOP (sensor)
Home Alarm Sensor - remove a specific sensor	#44# <i>SensorName</i> #	EMP, EOP (sensor)
Home Alarm Sensors - remove all wireless alarm sensors	#44#	EMP, EOP (sensor)
Wireless Remote Control for Home Alarm (WRCP) - pair new	#30#3#	EMP, EOP (WRCP)
Wireless Remote Control for Home Alarm (WRCP) - remove all	#45#	EMP, EOP (WRCP)
Wireless Siren for Home Alarm - pair or test function	#43#	EMP, EOP (WSSP)
Beeps (in Main unit) on alarm - set duration in seconds	#50# <i>Duration</i> #	EMP, EOP
Home alarm function ON/OFF with schedule - check status	#46#	EMP, EOP (sensor)
Home alarm ON/OFF with schedule - days/time for schedule 1	#46#1# <i>Days</i> # <i>OnTime</i> # <i>OffTime</i> #	EMP, EOP (sensor)
Home alarm ON/OFF with schedule - days/time for schedule 2	#46#2# <i>Days</i> # <i>OnTime</i> # <i>OffTime</i> #	EMP, EOP (sensor)
Home alarm ON/OFF with schedule - days/time for schedule 3	#46#3# <i>Days</i> # <i>OnTime</i> # <i>OffTime</i> #	EMP, EOP (sensor)
Home alarm function ON/OFF with schedule - OFF	#47#0#	EMP, EOP
Home alarm function - ON	#40#1#	EMP, EOP
Home Alarm Function - OFF	#40#0#	EMP, EOP
<p>"Temporary" = activated only when the Home alarm function is ON, "Permanent" = activated all the time SensorName: max 9 characters, a-z, A-Z, 0-9, no spaces or other characters, Duration: 0-60 sec (1-2 digits), 0=beep sound OFF, default 10 sec, Days: 1=Monday, 2=Tuesday... 7=Sunday, OnTime/OffTime: hhmm (24 hours, 4 digits), NOTE: max 6 wireless Home alarm sensors and max 2 remote controls per Main unit</p>		

Temperature monitor		
Temperature monitor - check status	#35#	EMP, EOP, EXP
Temperature monitor - set temperature range to be monitored	#22#0# <i>MinTemp</i> # <i>MaxTemp</i> #	EMP, EOP, EXP
Temperature monitor function - ON	#21#0#1#	EMP, EOP, EXP
Temperature monitor function - OFF	#21#0#0#	EMP, EOP, EXP
Temperature monitor in Slave unit - check status	#68# <i>UnitName</i> #	EMP, EOP (ESP)
Temperature monitor in Slave unit - set temp range to monitor	#69# <i>UnitName</i> # <i>MinTemp</i> # <i>MaxTemp</i> #	EMP, EOP (ESP)
Temperature monitor in Slave unit - ON	#68# <i>UnitName</i> #1#	EMP, EOP (ESP)
Temperature monitor in Slave unit - OFF	#68# <i>UnitName</i> #0#	EMP, EOP (ESP)
Temperature sensor: wireless (WTLP) - ON, plug-in - OFF	#10#1#	EMP
Temperature Sensor: wireless (WTLP) - OFF, plug-in - ON (default)	#10#0#	EMP
<p>MinTemp/MaxTemp: -10 to 50 (degrees Celsius, integer) with standard temperature sensor -30 to 100 (degrees Celsius, integer) with the optional Temperature sensor on the Cable (TSG) -20 to 50 (degrees Celsius, integer) with Wireless Temperature & Light sensor (WTLP) accessory Unit Name: max 7 characters, a-z, A-Z, 0-9, no spaces or other characters/symbols</p>		

DEVICE SETTINGS

Slave Units		
Slave units - check the status of all units	#07#	EMP, EOP
Slave unit - check the status of specific unit	#07# <i>UnitName</i> #	EMP, EOP (ESP)
Slave unit - pair new and name	#60# <i>UnitName</i> #	EMP, EOP (ESP)
Slave unit - remove specific Slave unit	#71# <i>UnitName</i> #	EMP, EOP (ESP)
Slave units - remove all Slave units	#71#	EMP, EOP (ESP)
Unit Name : max 7 characters, a-z, A-Z, 0-9, no spaces or other characters/symbols, NOTE: max 4 Slave units per Main unit		

User		
Users - check all registered phone numbers	#06#	EMP, EOP, EXP
Users - register new phone number	#06# <i>Number</i> #	EMP, EOP, EXP
User - remove specific phone number	#15# <i>Number</i> #	EMP, EOP, EXP
Users - remove all registered phone numbers (except Master)	#15#	EMP, EOP, EXP
SMS Notifications to Users - ON (default)	#16#1#	EMP, EOP, EXP
SMS Messages to Users - OFF	#16#0#	EMP, EOP, EXP
Number : phone number in international format (e.g. +46...), maximum 16 digits. NOTE: max 4 Users		

Notifications		
SMS when power is lost - ON (default)	#05#1#	EMP, EOP, EXP
SMS when power is lost - OFF	#05#0#	EMP, EOP, EXP
SMS when power turns ON/OFF with button - ON (default)	#03#1#	EMP, EOP, EXP
SMS when power turns ON/OFF with button - OFF	#03#0#	EMP, EOP, EXP
SMS when power turns ON/OFF with thermostat - ON	#37#1#	EMP, EOP, EXP
SMS when power turns ON/OFF with thermostat - OFF	#37#0#	EMP, EOP, EXP

Function	SMS command	Applicable model
SMS when power turns ON/OFF with schedule - ON	#38#1#	EMP, EOP, EXP
SMS when power turns ON/OFF with schedule - OFF	#38#0#	EMP, EOP, EXP
SMS when power turns ON/OFF by phone call – ON	#49#1#	EMP, EOP, EXP
SMS when power turns ON/OFF by phone call – OFF	#49#0#	EMP, EOP, EXP
SMS when the mobile network signal level is low – ON	#27#1#	EMP, EOP, EXP
SMS when the mobile network signal level is low - OFF (default)	#27#0#	EMP, EOP, EXP
SMS notifications to Users - ON (default)	#16#1#	EMP, EOP, EXP
SMS notifications to Users - ON	#16#0#	EMP, EOP, EXP
Language (in SMS replies)		
Language - change to Swedish (default)	#39#1#	EMP, EOP, EXP
Language - change to English	#39#0#	EMP, EOP, EXP
Restart (reboot the unit, update the internal clock and reset the Main unit)		
Restart the Main unit (settings do not change)	#48#	EMP, EOP, EXP
Update the system's date and time	#00#	EMP, EOP, EXP
Reset code (password) – change to new code	#04# CurrentCode # New Code #	EMP, EOP, EXP
Reset the system to default settings (Master is unregistered)	#08# CurrentCode #	EMP, EOP, EXP
CurrentCode/New Code: 4 digits, 1234 by default (upon delivery and after reset)		

6 Functions and specifications

YOYOPOWER	4G			Plus 4G			
Model	Control	Slave unit	Switch	Control	Slave unit	Switch	Outdoor
Model Number	EM4-016-Y	ES2-086-Y	EX4-057-Y	EMP-085-Y	ESP-087-Y	EXP-089-Y	EOP-092-Y
Properties							
Remote connection	4G/GSM	via EM4	4G/GSM	4G/GSM	via EMP/EOP	4G/GSM	4G/GSM
Remote control	Mobile app YOYOPower SMS 2.0 or SMS commands or phone call						
Languages	Swedish and English						
Temperature sensor	Built-in with external, detachable sensor (range of standard sensor -10°C to 50°C)						-
Connection Slave units, max 4 pcs	ES2	-	-	ESP	-	-	ESP
Accessories							
Remote control (alarm and power control)	Up to 2 pcs	-	-	Up to 2 pcs	-	-	Up to 2 pcs
Alarm sensors (wireless)	Up to 6 pcs	-	-	Up to 6 pcs	-	-	Up to 6 pcs
Temp sensor on cable (-30°C--100°C, 2m)	Yes	-	-	Yes	-	-	-
Wireless temp. & light sensor (-20°C--50°C)	-	-	-	Yes	-	-	Yes
Power control							
Locally with button (EOP pinhole) on unit	-			Yes			
Locally with remote control	Yes	-	-	Yes	-	-	Yes
Remotely with mobile app or SMS	Yes						
Remotely by phone-call	Yes	-	Yes	-	-	Yes	-
Automatic with delayed activation	Yes						
Automatic with weekly schedule	Yes, 1 schedule			Yes, 3 schedules			
Automatic with thermostat	Yes (supplied temp sensor or accessory TSG)						Yes (WTLP)
Automatic with light sensor	-	-	-	Yes	-	-	Yes
Power level and consumption report	-	-	-	Yes			
Alarm functions - built-in							
Temperature deviation	Yes						Yes (WTLP)
Power outage/return	Yes	-	Yes	-	-	Yes	-
Current load, current deviation	-			Yes			
Home alarm function and wireless alarm accessories							
Fire (smoke detector)	Yes	-	-	Yes	-	-	Yes
Water leakage	Yes	-	-	Yes	-	-	Yes
Movement	Yes	-	-	Yes	-	-	Yes
Door/window (magnetic contact)	Yes	-	-	Yes	-	-	Yes
Siren with strobe	Yes	-	-	Yes	-	-	Yes
Alarm on/off (remote control, app, SMS)	Yes	-	-	Yes	-	-	Yes
Schedule-controlled alarm function	Yes	-	-	Yes	-	-	Yes
Technical specifications							
Power supply	110 ~250V, 50Hz (grounded)						
Max power load	16A/3500W (continuous)						
Installation environment	Indoors						Outdoor/IP44
Operating temperature	-10°C - 50°C						-20°C - 50°C
LED indicator lights	Power and status indication						
Connectivity - Slave Unit (433MHz)	Up to 10m	-	-	Up to 10m	-	-	Up to 10m
Connectivity - Wireless Sensor (433MHz)	Up to 15m	-	-	Up to 20m	-	-	Up to 20m
Connectivity - Siren (433MHz)	Up to 2m	-	-	Up to 10m	-	-	Up to 10m
Connectivity temp sensor	3.5 mm audio jack						-
4G/GSM antenna	Built-in	-	Built-in	External (SMA connector)			Built-in
Mobile App (iOS, Android)	YOYOPower SMS 2.0						
Size (W x H x L mm)	60x125x38			60x140x38	120x60x38	60x140x38	140x60x49
Weight (grams)	190	172	187	222	148	204	377

7 FAQ and troubleshooting guide

Follow the link or QR code:

<https://yoyomotion.com/produktinformation/>



8 Important information

Please read this information before using your YOYOPower.

8.1 Safety and Usage Guidelines

- Check the terms and conditions of your SIM card and mobile operator service.
- Do not expose your YOYOPower to impact, shock, dust, liquid or moisture, extremely high or low temperature, flame, lit tobacco products, or other heat sources.
- Do not use YOYOPower in hospitals or near medical equipment.
- If you have personal medical equipment such as pacemakers, consult your doctor for advice.
- Do not use YOYOPower in airplanes or in any place where the use of radio transmitters is prohibited, where there is a potentially explosive atmosphere, or in the vicinity of car airbags.
- Do not attempt to disassemble YOYOPower. There are no user-serviceable components inside the product. Improper use, disassembly, or product modification will cause loss of warranty.
- Do not allow children to play with YOYOPower. Small parts like SIM cards can pose a choking hazard.
- For optimal performance, do not cover YOYOPower. Place it with good ventilation and good access to mobile networks (4G or 2G).
- You should not rely on any SMS or phone call feature provided by YOYOPower for emergency communications or other critical communications.
- The power load of the appliances connected to YOYOPower must not exceed 3500W and the current must not exceed 16A.
- Before attempting to carry out any electrical connection work, make sure that the power source is turned off.
- Wireless remote switches are used to control lighting or other electrical equipment via remote control, app, etc. without a fixed connection. Improper use may result in a risk of malfunction or communication disruption. Only use the switch according to the associated instructions and with the corresponding accessories and replacement parts. The unit should be mounted protected from moisture and mechanical damage. The information is provided in accordance with the EU Product Safety Regulation (2023/988).
- Yoyomotion AB is not liable for indirect losses or damages that may have arisen due to errors that have occurred after use or incorrect use of sold equipment, e.g. missing alarms, impact on electricity consumption or other similar losses that have been difficult to foresee, unless it can be shown that Yoyomotion AB acted grossly negligently or with intent.

8.2 Waste management and recycling

- Do not dispose of your YOYOPower with normal household waste.
- Dispose of your end-of-life YOYOPower at a suitable collection point for electronic equipment.
- For more information, please contact your local authority, your household waste disposal depot or the retailer where you purchased your YOYOPower.
- It is also possible to send or return worn-out YOYOPower units to Yoyomotion AB, Järnvägsgatan 36, 13154 NACKA. Mark the shipment with "Recycling".

YOYOPower Plus 4G®



<https://yoyomotion.com/hem/yoyopower-plus-4G/>

