

# GSM Mini

SMS-operated 230V socket

## User manual

Swiss edition

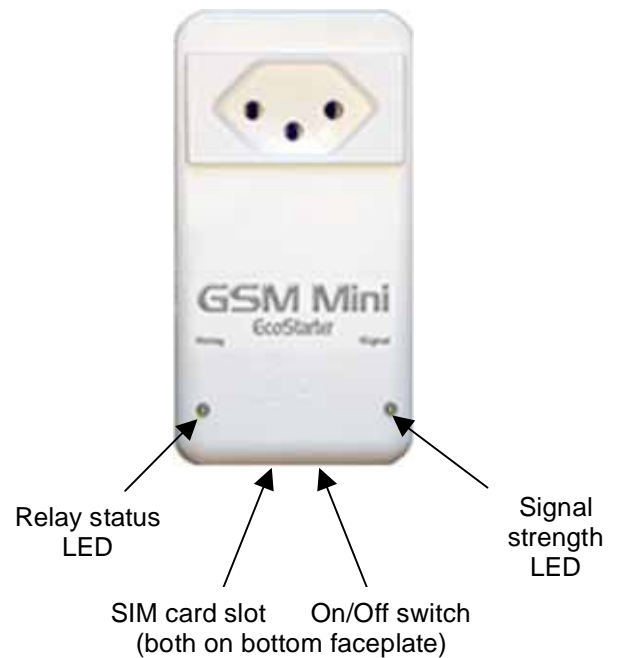
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<b>CONTENTS:</b>	<b>PAGE:</b>
<b>OVERVIEW OF GSM MINI</b> .....	<b>1</b>
<b>BEFORE USE</b> .....	<b>1</b>
Preparation of SIM card .....	2
Inserting the SIM card .....	2
Start-up .....	2
Signal strength .....	2
Reset of personal access code ...	2
<b>SMS CONTROL</b> .....	<b>3</b>
Sending SMS messages .....	3
<b>CONTROL COMMANDS</b> .....	<b>3</b>
<b>PRECONDITIONS AND ADVICE</b> .....	<b>4</b>
Troubleshooting .....	4
<b>TECHNICAL SPECIFICATIONS</b> .....	<b>4</b>
<b>WARRANTY</b> .....	<b>5</b>
<b>RECYCLING</b> .....	<b>5</b>



## OVERVIEW OF GSM MINI

- Based on standard GSM networks. Operates in the 900/1800 MHz bands.
- Relay rating: 230V 10A, 2300W.
- Personal access code. Factory set to "1234".
- 1 LED for signal strength. A blinking green light signals a faulty SIM card.
- 1 LED for relay status. A steady green light signals that the relay is switched ON.
- 1 push-button to switch the relay on/off locally.



## BEFORE USE

All remote communication with GSM Mini takes place through the GSM network. In order to receive SMS command messages (for controlling e.g. a heating appliance), GSM Mini needs to have a SIM card installed, just like any standard mobile phone.

SIM cards from any mobile phone operator will work, both pre-pay and subscription based, as long as they enable SMS messaging.

Remember that pre-pay solutions will often have a limited life span, and need to be recharged with credit at least once a year.

## PREPARATION OF SIM CARD

GSM Mini requires the SIM card PIN code to be deactivated. This is carried out by temporarily inserting the SIM card into a normal GSM mobile phone where the PIN code can be turned off (please refer to the manual of your mobile phone).

## INSERTING THE SIM CARD

Always ensure that GSM Mini is powered off (i.e., it is not plugged into a socket) when manipulating the SIM card. Insert the card as shown below, with the notch in the top left corner and the gold contacts facing down. Gently push the card until it clicks in place.



If later you wish to withdraw the SIM card, first gently push it inwards until a click signals that the locking mechanism is open. Then you may pull the card out of the slot.

## START-UP:

When GSM Mini is plugged into the wall socket (after its SIM card has been activated), the Signal LED will first turn green after 5 seconds. Then GSM Mini will continue the start-up procedure and be ready for use after about 15 seconds.



Above: side view of GSM Mini

## SIGNAL STRENGTH:

The Signal LED shows the strength of the GSM signal, as follows:

1. Green: Good signal.
2. Red: Medium quality signal.
3. Off (no light): Bad or no signal.

In case situation (2) or (3) occurs, it is recommended to change the place of GSM Mini for better coverage.

## RESET OF PERSONAL ACCESS CODE

GSM Mini is factory set with "1234" as personal access code. Should you lose or forget your code, the following procedure will reset it to "1234":

- Pull GSM Mini out of the wall socket
- Press and hold the on/off switch on the bottom faceplate
- Plug GSM Mini into the wall socket and continue to hold the switch for another 5-10 seconds before releasing it
- Access code is now set back to "1234"

## SMS control

GSM Mini is configured and controlled using regular SMS messages sent from mobile phones. The factory-set "1234" personal access code will be used in the following examples. You should set a new access code as soon as possible – and remember it !

### SENDING SMS MESSAGES:

SMS messages must always contain the following:

- First, the 4-digit access code
- Then, any control commands (possibly several of them inside the same SMS)

"" (quotation marks) shall not be written in the SMS.

Address SMS messages to GSM MINI by using the phone number of the SIM card inside it.

## CONTROL COMMANDS

### R for switching the Relay on or off

R followed by **1** for *on* or **0** for *off*.

E.g.: "1234 R1" switches on the relay inside GSM Mini.  
E.g.: "1234 R0" switches off the relay inside GSM Mini.

### S for Status message

The **S** command makes GSM Mini reply with a status message returned by SMS.

E.g.: "1234 S" obtains current status by SMS.

The returned status message will usually be like this:  
Either "Relay On" or "Relay Off", followed by "Sikom GSM Mini V1.0 Telit" (software version of GSM Mini).

If timer control is active, the status message will be like this:

Example 1: "Relay 02Hrs" (relay is on, with 2 hours left)  
Example 2: "Relay 04Min" (relay is on, with 4 minutes left) followed by "Sikom GSM MiniV 1.0 Telit" (software version of GSM Mini).

### C for Changing the personal access Code

Change the current personal access code to a new 4-digit value.

E.g.: "1234 C9898" changes code from 1234 to 9898.

NB: Remember the new code!

### T for Timer control (hourly countdown)

Relay can be turned on for a programmable duration, between 1 and 99 hours.

**T** followed by the desired number of hours (always a 2-digit value: 01 = 1 hour, 05 = 5 hours, etc.)

E.g.: "1234 T01" switches relay on for 1 hour.

E.g.: "1234 T11" switches relay on for 11 hours.

If necessary, use the **R** command to interrupt before the end of the countdown.

E.g.: "1234 R0" switches relay off and ends timer control.

### M for timer control by Minutes

Relay can be switched on for a programmable duration, between 1 and 99 minutes.

**M** followed by the desired number of minutes (always a 2-digit value: 05 = 5 minutes, etc.)

E.g.: "1234 M01" switches relay on for 1 minute.

E.g.: "1234 M11" switches relay on for 11 minutes.

If necessary, use the **R** command to interrupt before the end of the countdown.

*NB!* The timer has an error margin of about 1 minute. Therefore, if timer is set to 1 minute, GSM Mini may switch off the relay after just a few seconds.

### P for Pulse

Switch relay **on** for a chosen number of seconds (between 1 and 9) and then off again.

E.g.: "1234 P1" switches relay on for 1 sec, and then off.

**NB!** This command will cancel any active timer control.

### U For resetting e.g. a PC

Switch relay **off** for a chosen number of seconds (between 1 and 9) and then on again.

E.g.: "1234 U1" switches relay off for 1 sec, and then on.

**NB!** This command will cancel any active timer control.

## PRECONDITIONS AND ADVICE

For GSM Mini to work satisfactorily, a good coverage of the relevant GSM network is needed.

The reliability of SMS messaging depends on the network operator. An SMS will not be delivered in case of errors on the GSM network, or similar issues under the responsibility of the operator. When the GSM network is heavily loaded, it may take several minutes (or even hours) for an SMS message to be delivered. These are conditions that Sikom AS cannot do anything about. The dispatch date and time of the message are nevertheless visible at delivery.

If you opt for a prepay solution, remember that the credit must be recharged before use. Information on this procedure comes with the SIM card. GSM Mini is unable to warn if the credit gets exhausted, as no SMS message may then be sent out.

In conformance with legal regulations, network operators are free to cease certain GSM services. Sikom AS is not a provider of GSM services and can therefore not be held liable for any changes of such services. Notifications should nevertheless be published long before such events take place.

### TROUBLESHOOTING:

No light from any LED:

- Check your power supply, circuit breakers and fuses. Try another power socket.

Signal LED flashes green:

- Is the SIM card subscription valid?
- SIM card PIN code must be deactivated.

Signal LED flashes red:

- Wait about 2-3 minutes for GSM Mini to restart on its own.
- If it's still blinking: pull GSM Mini out of the wall socket and wait 1 minute before you put it back into the wall socket.
- The red blinking can signal a faulty GSM Mini: contact your dealer.

Unit does not reply to requests for status SMS:

- Is the SIM card subscription valid and paid for?

### IMPORTANT:

Do not overload GSM Mini, and do not locate it in confined places, which may lead to overheating. When overheated, Relay LED will keep flashing red/green, and the relay will be switched off. GSM Mini may then only be reset on site, by hand, as follows:

- Pull GSM Mini out of the wall socket, and remove any excessive load connected to it.
- Wait 1 minute.
- Check that the power consumption of connected appliances (e.g., heaters) does not exceed the rated power of GSM Mini (see technical specifications below).
- Put GSM Mini back into socket.

For other errors, please look at the Support/FAQ at [www.EcoStarter.com](http://www.EcoStarter.com)

## TECHNICAL SPECIFICATIONS

Manufacturer:	Sikom AS, Norway
Model:	GSM Mini
GSM standard:	Dualband 900/1800 MHz
Operating voltage:	230 V AC
Max load (Swiss edition):	2300 W (230V/10A)
Power consumption:	Max 10 W
Operating temperature:	-20°C to 50°C
Dimensions (LxHxD):	57 x 110 x 40 mm
Weight:	270 g

GSM Mini is designed for indoor use only.

This equipment complies with the European R&TTE directive. Further information may be obtained by contacting either the Swiss importer through [www.EcoStarter.com](http://www.EcoStarter.com) or the manufacturer:

Sikom AS  
Jernbanegata 16/18  
P.O. Box 223  
7601 Levanger  
Norway

Internet address: [www.sikom.no](http://www.sikom.no)

## WARRANTY

Sikom AS products are covered by a two years warranty against any faults due to material flaws or manufacturing errors, which limit or render useless certain functions described for the product. The warranty requires the customer to present the original bill, with date of purchase and type of equipment clearly readable.

### What is covered by the warranty?

During the warranty period, Sikom AS reserves the right to repair the product or to replace defective parts with functionally equivalent parts. If, after several attempts, Sikom AS is unable to correct the problem, and the product does not work as described in the manual, Sikom may elect to refund the purchase price or to replace the product with a functionally equivalent one. All replaced parts and products become the property of Sikom AS.

### What is not covered by the warranty?

- Indirect damage to life, health, property, revenue and environment caused by circuits and appliances connected to the units (install and use this product responsibly).
- Costs related to (re)installing, transporting and dismantling units; recycling may be governed by special rules (see the relevant chapter below).
- Damages caused by use outside of the operating conditions specified in the manual.
- Malfunctions caused by transport damages.
- Any unauthorized repair, modification or disassembly.
- Use of non-original parts.
- External factors, such as lightning, power supply issues, mobile network issues, flood damage or fire.
- Units with modified, removed or unreadable serial number.

## RECYCLING

### Waste Electrical and Electronic Equipment (WEEE) information:

Waste Electrical and Electronic Equipment (WEEE) Symbol



The WEEE symbol indicates that this product must not be disposed of along with other household waste. It is the customer's responsibility to dispose of the product properly by taking it to a designated site for recycling. To locate a recycling/disposal site near you, contact your local city recycling program, your regular waste disposal service or the agent from whom you purchased this product.



For Switzerland, this product includes in its purchase price a contribution (the advanced recycling fee) to the SWICO Recycling Warranty, which means that used equipment can be handed in free of charge for recycling. Collection sites are listed at <http://www.swicorecycling.ch>.

*Sikom assumes no responsibility for any errors that may appear in this manual. Information contained herein is subject to change without notice.*