

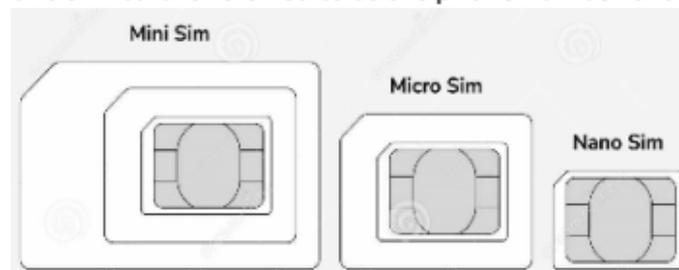
EN GSM remote controlled socket Solight DY10GSM

Thank you for purchasing the DY10GSM remote controlled socket. The power output can be switched on or off by SMS command or by using the button directly on the socket. The DY10GSM socket is able to communicate with the DY10S additional socket over a distance of up to 30m. One SIM card can be used to control one DY10GSM socket and up to four DY10S sockets.

Both DY10GSM and DY10S

outlets support temperature monitoring, temperature control, calendar setting and delayed control via SMS from a mobile phone. All services and functions must be supported by the GSM network and SIM card. Detailed information about the operation and advanced operation of the socket is described in this manual. An app for easier control of the DY10GSM and DY10S socket is freely downloadable on Google Play and APP Store under the name "Solight DY10GSM".

1. Purchase a GSM SIM card and install it in the socket. Use a standard size SIM card (called Mini SIM - 2FF - see picture). The phone number of this SIM card is referred to as the phone number of the socket in this brochure.



2. For the SIM card, you must deactivate the PIN entry function and activate the call and SMS function.

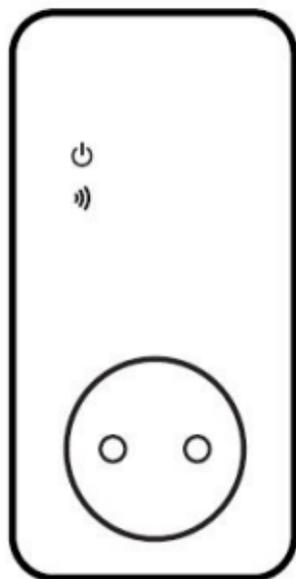
3. To ensure the safety of the socket operation, do not disclose this telephone number to persons who could misuse it.

For your safety

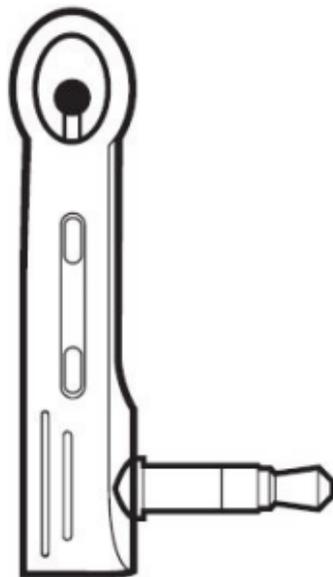
- This socket was designed for home or office use. For example, it is not intended for industrial switching.
- Before using this socket, make sure that mobile networks with sufficient signal are available at the location of use, otherwise this socket may not be able to operate.
- The power consumption of appliances connected to the socket must not exceed 3600W and a current of 16A.
- Electrical appliances that consume more than 1500 watts must be grounded.
- Do not expose the socket to a short circuit.
- Do not touch the socket sockets with any metal objects or your hands.
- This socket was designed for indoor use. Do not use it in damp, chemically aggressive or dusty environments.
- Do not open the unit unless maintenance is required.
- Do not shake the drawer and avoid dropping it on the floor, as it may be damaged.
- The socket works on the principle of receiving and transmitting a signal. Keep it away from radio networks that could interfere with this signal.
- Do not use the socket in areas where the use of transmitting equipment is prohibited due to the possibility of causing an explosion (mines, specific chemical plants, etc.).
- It can explode if thrown into a fire.

- The socket can operate with the voltage and current specified by the manufacturer. If other values are used, the correct functioning of the socket may be compromised.
- Keep the socket and its accessories out of the reach of children.

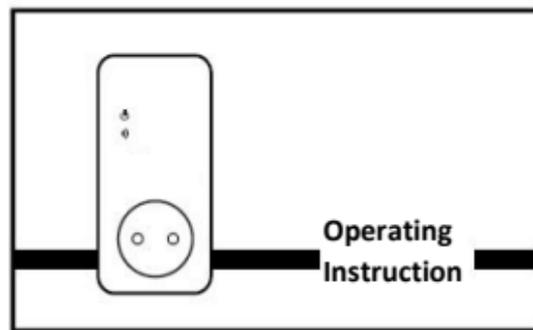
Contents of the package



GSM socket (1pc)

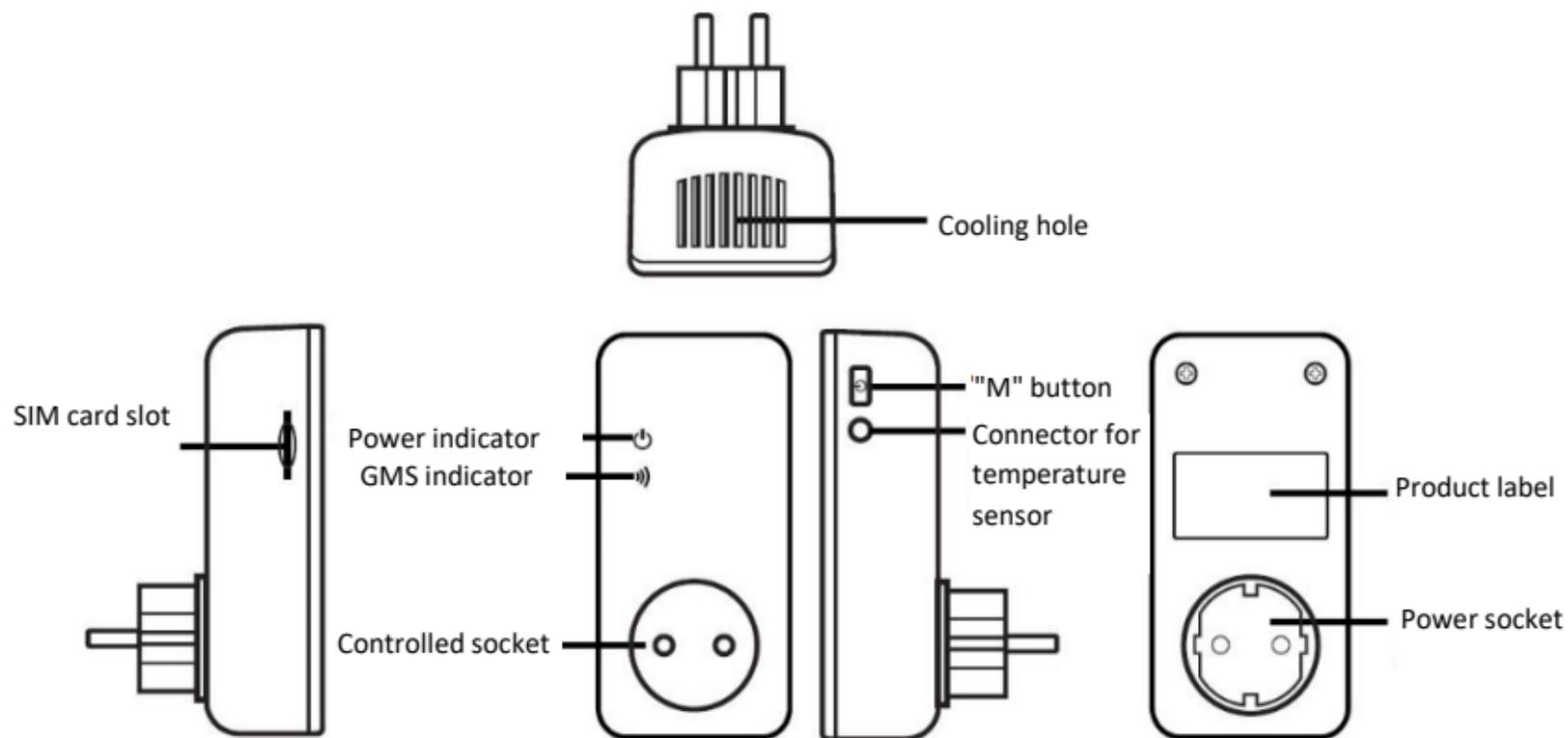


Temperature sensor (1pc)



User manual (1pc)

DY10GSM socket description



The DY10S socket is identical, only it does not have a SIM card slot

LED Indicators

Type	Indicator	Events	Status
DY10GSM and DY10S	Power indicator	Off	The controlled output of the socket is switched off
		Shining	The controlled output of the socket is switched on
	GSM indicator	Flashing slowly	Network search (DY10GSM) Loss of connection to DY10GSM (DY10S)
		Slowly turning on and off	Sleep mode
		Two fast and one slow flash	The socket is in pairing mode

		3s lit	Going to factory settings
		Flashing fast	Receiving/sending SMS commands

User permission level

Setting the socket and specifying these settings can only be done via SMS commands. When setting up, you choose from two options for the user level:

Main user

Only one main user is authorized to use all functions of the DY10GSM. If you want to use all functions of this socket, set the master user number in the socket memory.

Other users

Up to four phone numbers can be authorized to use commands to turn the outlet on and off, detect the temperature around the outlet, and receive information about power status changes. **Other phone numbers are not authorized to control the outlet!**

SMS commands:

- SMS command format: **#code#content#**
- The maximum number of command characters is 16
- The DY10GSM socket responds to the user after receiving an SMS command

Note

- *Don't forget the # sign when typing the command.*
- *Do not insert any spaces in the command text*

Commissioning

Insert the SIM card into the DY10GSM socket; the SIM card slot is on the side of the device, insert the SIM card as indicated on the device cover. Make sure that the SIM card is properly secured. Plug the temperature sensor into the socket on the side of the device. The initial password is 1234.

1. Switching on:

1. Insert the DY10GSM into the socket. The GSM indicator will flash slowly for 15 seconds, after which it will go into a slow on/off state - this status means that the socket is logged into the GSM network and ready for further operations. In basic mode the socket is set with the output switched off.
2. Switch on the electrical device to be controlled and then plug it into a socket.
3. Press the "M" button for about one second to switch on the socket. After setting up other users, these users can control the socket.

Remark:

1. If the GSM network LED flashes slowly, this is a warning that the SIM card is not working properly.

2. Check the GSM signal strength. GSM signal strength can affect the characteristics of the socket. The user should make sure that the socket is used in a location with sufficient GSM signal.
3. For the first use, we recommend a test run to ensure that the socket is working properly and to determine the quality of the signal.

2. Master user registration:

Send an SMS command to the phone number of the SIM card in the socket for:

*Registration number of the main user: **#00#***

3. Change the main user:

The current main user sends an SMS command for:

*Change the phone number of the main user: **#14#NewMainUserNumber#***

NewMasterUserNumber - phone number of the new master user in the format e.g.: 737xxxxyy.

4. Other users:

Up to four additional phone numbers can be registered for this socket. These phone numbers can send SMS commands to control the DY10GSM and DY10S sockets.

The main user sends an SMS command for:

*To register other users: **#06#NumberOtherUser#***

NextUserNumber - phone number of the next user in the format e.g.: 737xxxxyy.

Finding out the registered numbers of other users:

The main user sends an SMS command for:

Getting numbers of other users: #06#

Deleting other users:

The main user sends an SMS command for:

Deleting another user: #15#NextUserNumber#

Delete all other users: #15#

5. Pairing DY10GSM and DY10S:

The main user sends SMS to pair DY10GSM and DY10S. Before pairing, it is necessary to make sure that the DY10S is in factory settings. If the DY10S has not been paired yet, it is not necessary to perform this process. If it has already been paired, it is necessary to press the "M" button for 10s. If this is done, then the main user will send a SMS command for:

Pairing with DY10S: #60#name#

After receiving the SMS, the main user receives the reply "**Power "name" socket now!**". After receiving this message, connect the DY10S to the network. The power LED will blink slowly for a few seconds and then go into a slow on/off state when paired with the DY10GSM.

"Name" is the identification of the DY10S socket when communicating with the DY10GSM socket. Use this name when sending requests to this socket. You can use the DY10GSM settings to set any name for the DY10S socket. The name can contain letters without accents or numbers.

The main user sends an SMS command for:

DY10S socket disconnection: #70#name#

6. Power control:

Method 1: Hold the "M" button for one second.

Method 2: The main user sends an SMS command for:

Switching on the DY10GSM: #01#0#

Switching on the DY10S: #61#name#

Switching off DY10GSM: #02#0#

Switching off DY10S: #62#name#

7. Delayed check of the socket output:

The output of the socket can be set with delayed on/off at a periodically recurring time. Delayed control will be automatically deactivated by SMS command or "M" button, activation of calendar control will also automatically terminate the delayed control function. If a command for delayed control is received and if the outlet output is switched on, this output will be switched off immediately and will only be switched on when the desired time is reached. Conversely, if the outlet is turned off, it will remain off until the desired delayed ON time is reached.

The main user sends an SMS command for:

Delayed switching on of DY10GSM socket after a certain time: #12#0#Minutes#1#

Delayed switching on of DY10S socket after a certain time: #63#0#Minutes#1#

Delayed shutdown of DY10GSM socket after a certain time: #12#0#Minutes#0#

Delayed shutdown of DY10S socket after a certain time: #63#0#Minutes#0#

Minutes is a time parameter, the range is 1 - 720.

8. Calendar control:

Activate calendar control. The socket output can be set to switch on at a specific time and then switch off at another selected time. The calendar control function will be automatically deactivated if the user changes the state of the outlet by SMS or "M" button, delayed control or control by temperature reached can also deactivate this function.

The main user sends an SMS command for:

Setting the time period for switching on the output of the DY10GSM socket: #20#0#WorkingDay#StartTime#EndTime#

Setting the time period for switching on the DY10S socket output: #65#name#WorkingDay#StartTime#EndTime#

Working day: one character, values from "0" to "9". The following table shows the description of each value:

Value	Matching day	Value	Matching day
0	every day	5	Friday
1	Monday	6	Saturday
2	Tuesday	7	Sunday
3	Wednesday	8	Monday to Friday
4	Thursday	9	Weekend

StartTime and **EndTime**: Contains 4 characters (HH:MM) and works in 24h format. If the **StartTime** is later than the **EndTime**, the device will be switched on until the next day. The socket output will be switched on at the **Start Time** and off at the **End Time**.

For example: **#20#0#1#0000#2130#**; 0 means socket DY10GSM, 1 means Monday, 0000 means start time 00:00, 2130 means end time 21:30.

9. Ambient temperature control:

The temperature sensor must be connected to a power outlet for this function. The output of the socket can then be controlled depending on the ambient temperature. The ambient temperature control function will be automatically deactivated if the user changes the state of the socket using the SMS command or the "M" button, delayed or calendar control will also deactivate this function. There are two modes, cooling mode and heating mode. In heating mode, the drawer will automatically turn on the output when the temperature falls below the set point and turn off when the temperature is higher than the set point. In cooling mode, the outlet will automatically turn on when the temperature exceeds the set point and turn off the moment the temperature falls below the set point.

The main user sends an SMS message to:

*To activate the temperature control of the DY10GSM socket: **#23#0#1#***

*To activate the temperature control of the DY10S socket: **#66#name#1#***

Setting temperature control parameters

The main user sends an SMS command for:

*DY10GSM socket parameter settings: **#24#0#mode#MinTep#MaxTep#***

*DY10S socket parameter settings: **#67#name#mode#MinTep#MaxTep#***

The mode parameters can be set to 1 or 2. Heating mode - 1, cooling mode - 2. The temperature range can be from -10 to 50°C.

MinTep and **MaxTep**: Values can be set in the range of -10 to 50 degrees Celsius.

For example, **#24#0#1#15#25#** means that you set the control parameters using the ambient temperature for socket 0 - DY10GSM, 1 - heating mode, if the temperature drops below 15°C - it turns on, if it exceeds 25°C - it turns off. Once the temperature range is successfully set, this setting will be stored until the socket is reset to factory settings.

10. Temperature alarm:

The temperature sensor must be connected to a power outlet for this function. The temperature range can be set for each socket separately. If the ambient temperature falls outside the set limit, the DY10GSM will send an SMS message to the main user's phone number.

The main user sends an SMS command for:

*Alarm activation for DY10GSM when temperature exceeds: **#21#0#1#***

*Alarm activation for DY10S when temperature exceeds: **#68#name#1#***

*DY10GSM temperature alarm range setting: **#22#0#MinTep#MaxTep#***

*DY10S temperature alarm range setting: **#69#name#MinTep#MaxTep#***

MinTep and **MaxTep**: Values can be set in the range of -10 to 50 degrees Celsius.

*Deactivate temperature alarm for DY10GSM: **#21#0#0#***

*Deactivate temperature alarm for DY10S: **#68#name#0#***

11. SMS information when the output status of the socket changes:

DY10GSM and DY10S in the basic setting sends SMS information to the main telephone number and other numbers in case the state of the socket output is changed by the on/off button. The main user can turn this function on or off.

The main user sends an SMS command for:

*Activation of SMS information in case of changing the output of the socket by the on/off button on the socket (active in the basic setting): **#03#1#***

*Deactivation of SMS information in case of change of socket output by on/off button on the socket: **#03#0#***

12. SMS information when power status changes:

The DY10GSM sends an SMS when power is lost and restored. This only applies to the DY10GSM socket, the DY10S socket is not capable of this function. The main user can enable/disable this SMS notification.

The main user sends an SMS command for:

*SMS notification in case of change of mains power supply status (active in basic setting): **#05#1#***

*Deactivation of SMS notification in case of a change in the mains power supply status: **#05#0#***

SMS notification to the user

The DY10GSM will send an SMS alert when power is lost/restored, a temperature alarm is triggered or other information is available. By default, it sends messages to the main user and other users. The main user can change the settings to send information to other users' numbers.

The main user sends an SMS command for:

Activate SMS alerts for other users: #16#1#

Deactivate SMS alerts for other users: #16#0#

13. Determining the status of the socket:

The main or another user sends an SMS command for:

DY10GSM status detection: #07#

DY10S status detection: #70#

After receiving the SMS command, an SMS message with information about the status of the socket is sent to the user:

GSM-Socket: ON Temp: 23C

"Slave1": OFF Temp: 30C T

"Slave2": ON Temp: 23C C

"Slave2": ON Temp: 25C D

The socket with delayed operation is marked "D". The socket with temperature control is marked "T". The socket with calendar setting is marked "C".

Getting DY10GSM delayed control parameters: #34#

Getting DY10S delayed control parameters: #63#name#

Detecting DY10GSM control parameters using the calendar: #33#

Detecting DY10S control parameters using the calendar: #64#name

Detecting DY10GSM control parameters using temperature: #32#

Detecting DY10S control parameters using temperature: #66#name

Determination of DY10GSM parameters for temperature alarm: #35#0#

Determination of DY10S parameters for temperature alarm: #68#name#

14. SMS information about weak GSM signal:

The DY10GSM can send SMS when the GSM signal is weak. The main user can enable/disable this function.

The main user sends an SMS command for:

GSM signal detection: #27#

Activation of SMS notification in case of weak signal: #27#1#

Deactivation of SMS notification in case of weak signal: #27#0#

SMS reply:

Weak GSM signal strength alert function ON/OFF

Alarm for weak GSM signal sends SMS notification:

Weak GSM signal alert, the CSQ is **

15. Resetting the socket:

This function resets all socket settings (time, temperature, range parameters, etc.) and clears all user numbers.

If the socket is not working as it should, resetting it to factory settings will ensure that it can be set up and working properly again. The DY10S must be reset before it is paired with the main unit (unless this is its first pairing).

DY10GSM factory reset:

Method 1: Press the "M" button on the socket for 10s.

Method 2: The main user sends an SMS command for:

Resetting the DY10GSM socket: #08#Password#

Initial password setting - 1234

DY10S factory reset:

Method: press the "M" button on the socket for 10s.

16. Change password:

The main user sends an SMS command for:

Change your password: #04#ExistingPassword#NewPassword#

17. Call control:

The main socket can be controlled not only by SMS messages and the app, but also by calling. If you make a call from the phone number of **the main user** or **another user** to the phone number of the SIM card located in the socket, the current status of the socket will change. If the socket is switched off and you call it, it will be switched on and vice versa. When you call the phone number of the SIM card in the socket, you may hear several operator announcements: "The called party is not available" or a busy tone, all of which are OK - the socket will respond to your call and change its status. Depending on the operator, the type of these announcements may vary. **With this type of outlet control, the outlet will not send you a text message to let you know that the outlet has changed state.** In case you want to check the status of the socket, use the possibility to check the status of the socket using the application (instruction: **STATUS**) or the SMS command (see table **SMS commands** - "**DY10GSM status check**").

To activate the socket control by call, use the command: #09#1#

You can deactivate the socket control via the call command: #09#0#

As a confirmation you will receive the message "**Calling Control: voice call turns socket on/off - ON/OFF**"

Remark:

If you don't want the socket to send you an SMS when you control it by calling, send an SMS to the socket's SIM card with the code **#49#0#**. This will stop the socket from sending SMS messages. If you want to turn this service back on, send the code **#49#1#** to the SIM card of the socket.

Remark:

When switching the socket on and off via SMS messages or via the app, it is not possible to disable the sending of SMS messages from the socket, which provide information about the change of the socket status. Every time you switch the socket on or off via SMS (either by manually sending an SMS or via the app), you will be notified by SMS of the change in the socket status. In case you do not want to receive these SMS messages from the socket, select the call control (chapter 17.). Another option to avoid receiving SMS messages from the socket is to use a rechargeable SIM card to control the socket.

Main technical parameters:

Supply voltage	110~230V/50HZ,
Output parameters	110 - 230V/50HZ, 230V/30A(30s)
Max. current	16A
Working temperature	-10°C+50°C
Storage temperature	-20°C+60°C
Relative humidity	10-90%
Communication protocol	GSM PHASE 2/2+ (including data operation)
Data interface	GSM SIM 1.8V/3.0V socket
Frequency and coding	433MHz FSK
Additional socket distance	Up to 30m
Temperature sensor range	-10°C~50°C
GSM bands	850/900/1800/1900MHz

SMS commands:

Category	Functions	Command
Defining the user	Main user registration	<u>#00#</u>
	Change the master user number	<u>#14#NewMainUser#</u>
	Adding another user's number	<u>#06#NextUser#</u>
	Check other users' numbers	<u>#06#</u>
	To delete another user's number	<u>#15#OtherUser#</u>
	Delete the numbers of all other users	<u>#15#</u>
Pairing DY10S sockets	Pairing an additional socket	<u>#60#name#</u>
	Disconnecting an additional socket	<u>#70#name#</u>
Changes to the socket output	Switching on the DY10GSM socket	<u>#01#0#</u>
	Switching on the DY10S socket	<u>#61#name#</u>
	Switching off the DY10GSM socket	<u>#02#0#</u>
	Switching off the DY10S socket	<u>#62#name#</u>
Delayed control	Delayed switching on of the DY10GSM after the set minutes have elapsed	<u>#12#0#Minutes#1#</u>

Category	Functions	Command
	Delayed switch-on of the DY10S after the set minutes have elapsed	<u>#63#name#Minutes#1#</u>
	Delayed shutdown of DY10GSM after set minutes	<u>#12#0#Minutes#0#</u>
Delayed control	Delayed shutdown of DY10S after set minutes	<u>#63#name#Minutes#0#</u>
	Deactivation of delayed control DY10GSM	<u>#11#0#</u>
	Deactivation of delayed control DY10S	<u>#63#name#0#</u>
Calendar control	Activating the DY10GSM control using the calendar	<u>#19#0#1#</u>
	Activating the DY10S control using the calendar	<u>#64#name#1#</u>
	Setting calendar parameters for DY10GSM	<u>#20#0#WorkDay#StartTime#EndTime#</u>
	Setting calendar parameters for DY10S	<u>#65#name#WorkDay#StartTime#EndTime#</u>

Category	Functions	Command
	Deactivating calendar control for DY10GSM	<u>#19#0#0#</u>
	Deactivating calendar control for DY10S	<u>#64#name#0#</u>
Ambient temperature control	Activating ambient temperature control for DY10GSM	<u>#23#0#1#</u>
	Activating control by ambient temperature for DY10S	<u>#66#name#1#</u>
	Setting temperature parameters for DY10GSM	<u>#24#0#mode#MinTep#MaxTep#</u>
	Setting temperature parameters for DY10S	<u>#67#name#mode#MinTep#MaxTep#</u>
	Deactivate ambient temperature control for DY10GSM	<u>#23#0#0#</u>
	Deactivate ambient temperature control for DY10S	<u>#66#name#0#</u>
Temperature monitoring	Temperature monitoring activation for DY10GSM	<u>#21#0#1#</u>

Category	Functions	Command
	Temperature monitoring activation for DY10S	<u>#68#name#1#</u>
	Temperature range setting for DY10GSM	<u>#22#0#MinTep#MaxTep#</u>
	Temperature range setting for DY10S	<u>#69#name#MinTep#MaxTep#</u>
	Deactivate temperature monitoring for DY10GSM	<u>#21#0#0#</u>
	Deactivate temperature monitoring for DY10S	<u>#68#name#0#</u>
	SMS information about output status change (change made with the button on the socket)	<u>#03#1#</u>
	Deactivation of SMS information about output status change (change made by button on the socket)	<u>#03#0#</u>
	SMS information when the mains power status changes	<u>#05#1#</u>
	Deactivation of SMS information when the mains power status changes	<u>#05#0#</u>
SMS alerts	SMS notifications to other users	<u>#16#1#</u>

Category	Functions	Command
	Deactivate SMS notifications to other users	<u>#16#0#</u>
Determining the status	DY10GSM status detection	<u>#07#</u>
	DY10S status detection	<u>#70#</u>
	Getting the delayed control setpoints for DY10GSM	<u>#34#</u>
	Getting the delayed control setpoints for DY10S	<u>#63#name#</u>
	Setpoint detection when controlling with the DY10GSM calendar	<u>#33#</u>
	Setpoint detection when controlling with the DY10S calendar	<u>#64#name#</u>
	Setpoint detection with ambient temperature control DY10GSM	<u>#32#</u>
	Setpoint detection with ambient temperature control DY10S	<u>#66#name#</u>
	Getting setpoints for the DY10GSM temperature alarm	<u>#35#0#</u>

Category	Functions	Command
	Getting setpoints for the DY10S temperature alarm	<u>#68#name#</u>
	GSM signal quality detection	<u>#27#</u>
	Turning on weak signal alert	<u>#27#1#</u>
	Turning off weak signal alerts	<u>#27#0#</u>
Change password	Change password	<u>#04#ExistingPassword#NewPassword#</u>
Resetting the socket	Reset DY10GSM to factory settings	<u>#08# Password#</u>
Socket control by calling	Socket control via call - on	<u>#09#1#</u>
	Socket control via call - off	<u>#09#0#</u>

The product has been issued with a CE declaration of conformity in accordance with the applicable regulations. On request from the manufacturer: info@solight.cz, or download at www.solight.cz. Solight Holding, s.r.o., Na Brně 1972, Hradec Králové 500 06, Czech Republic.