Solar Monitor
Installation manual SM2-GSM v. 2.0

Package content

Modul GSM Modem
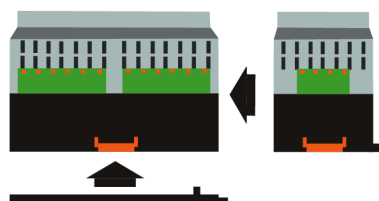
Solar Monitor SM2-GSM

Antenna

Installation manual
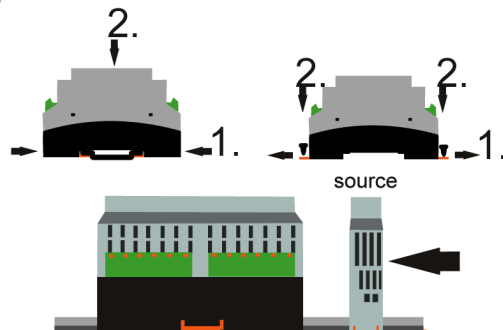
HBUS

- part for connection to SM2-MU

1. Step
Connection to SM2-MU

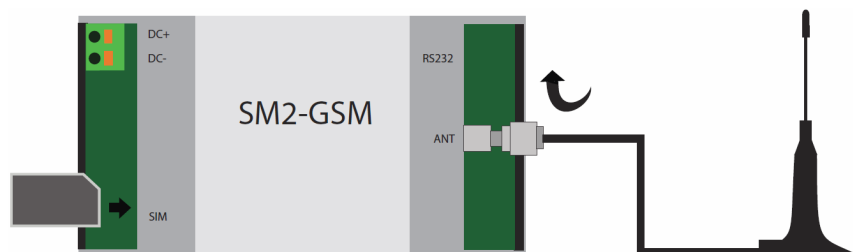Connect HBUS to SM2-MU. Connect the SM2-GSM module with SM2-MU according to this picture.

2. Step
Mechanical fastening

Solar Monitor incl. connected modules and source can be fixed to the wall or DIN rail according to these pictures.

source

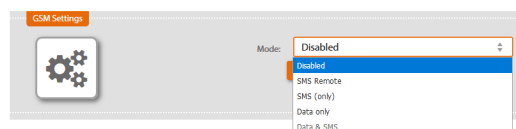## 3. Step
Antenna connection and SIM card insertion

Connect the antenna with SMA connector to the GSM modem. Then insert the SIM card according to the picture. PIN code can not be set on the SIM card, you can deactivate it for example using your mobile phone.

DC+
DC-
RS232
SM2-GSM
ANT
SIM

4. Step
Startup and configuration

If modules are connected and the source is connected to the Solar Monitor, green LED diode status must light on SM2-GSM. In the opposite case check the connection of the module with SM2-MU.
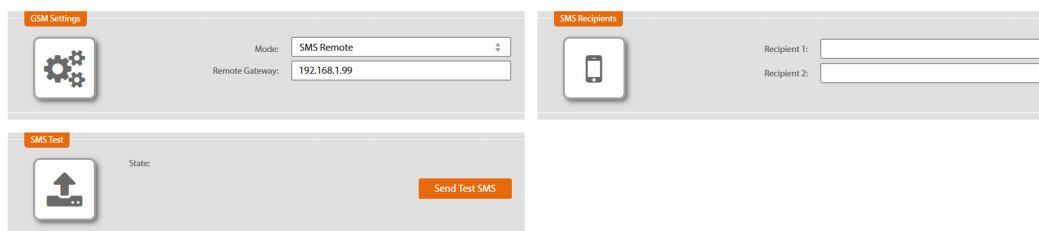
The mode is forbidden in default setting. Choose the required mode from the offer.

GSM Settings

Mode: Disabled

Disabled
SMS Remote
SMS (only)
Data only
Data & SMS

SMS remotely

In case you have more SM2-MU units connected in the same net and the module SM2-GSM is directly connected to the one of them, other units SM2-MU can send SMS reports using this module.

Write the IP address of the SM2-MU into the Remote gateway, which the module SM2-GSM is connected to. Write max. two phone numbers (eg. +420xxxxxxxxx) of recipients who will receive SMS messages. The functionality of modem and settings can be tested by pressing the button Send test SMS.

GSM Settings

Mode: SMS Remote
Remote Gateway: 192.168.1.99

SMS Recipients

Recipient 1:
Recipient 2:

SMS Test

State:

Send Test SMS

4. Step
Startup and configuration (continuation)

SMS only

Sending SMS reports from the monitoring unit SM2-MU, which the module SM2-GSM is directly connected to (using HBUS).

If the insterted SIM card has a PIN code, write it to the PIN. In case the modem is connected successfully, you can see the SMS center number. If not, it is necessary to set it on the SIM card (using other device, eg. mobile phone). Modem status - you can see here the communication process with the modem. Modem is OK if there is displayed "ready".

Write max. two phone numbers (eg. +420xxxxxxxxx) of recipients who will receive SMS messages. The functionality of modem and settings can be tested by pressing the button Send test SMS.

GSM Settings

Mode:	SMS (only)
PIN:	
Signal Strength:	0dBm, 0 rssi, 0%
SMS Center Number:	- ❼
Modem State:	Vypnutý

SMS Recipients

Recipient 1:	
Recipient 2:	

SMS Test

State:

Send Test SMS

Data (only)

This mode is for communication with Portal and for sending e-mail reports using data tariff.

You will use it in case you don´t have a fixed internet connection. In this case the ethernet connector on SM2-MU serves only for configuration from PC and after pulling out the UTP cable from connector the unit starts to communicate using GSM.

⚠ Inserted SIM card must have a mobile data tariff.

If the insterted SIM card has a PIN code, write it to the PIN.
Write the correct APN address according to your mobile operator and the dialed number.

GSM Settings

Mode:	Data only
PIN:	
Signal Strength:	0dBm, 0 rssi, 0%
SMS Center Number:	- ❼
Modem State:	Vypnutý

GPRS

APN Address:	internet.t-mobile.cz
Number:	*99***1#
Username:	
Password:	

Detailed information: wiki.solarmonitor.cz