Data logger

Installation and operating instructions

SOREL Connect

SOREL Mikroelektronik GMBH

Read carefully before installation, commissioning and operation

Description of data logger

1.1. - Specifications

Electrical specifications:
Protection class   IP20

Other specifications and dimensions:
Housing design   5-part, ABS plastic
Installation method   Wall installation
Overall dimension   75 mm x 80 mm x 25 mm
Light diode   Two-colour LED lamp for function control

Permissible ambient conditions:
Ambient temperature
for controller operation   0 °C ... 40 °C
for transport/storage   0 °C ... 60 °C
Air humidity
for controller operation   max. 85 % humidity at 25 °C
for transport/storage   no moisture condensation permitted

Other specifications:

                                    Reset button
                                    Micro SD card slot
Interfaces: Ethernet Port 10/100
                                    CAN bus
Power supply: Plug-in power supply 100 - 240 VAC
                                    Output 5 V DC 1A via nini USB

1.2. - Scope of supply

- Data logger
- Wall mount
- Micro SD card
- Plug-in power supply
- CAN cable 1m
- 2x CAN terminator
- Data logger and SOREL Connect operating instructions

1.3. - Disposal and pollutants

The unit conforms to the European RoHS 2011/65/EU for the restriction of the use of certain hazardous substances in electrical and electronic equipment.

> ⚠️ **Caution**   Under no circumstances may the device be disposed of with the normal household waste. Only dispose of the unit at appropriate collection points or return it to the seller or manufacturer.

Installation

1.4. - Wall installation

Only install the controller in dry areas and under the ambient conditions described under 1.1. - „Specifications". Follow the description below.

C.1.4.1

C.1.4.2

1. Carefully pull the upper part of the housing from the lower part and set the upper part of the housing aside.

2. Hold the lower part of the housing up to the selected position and mark the 2 mounting holes. Make sure that the wall surface is as even as possible so that the housing does not become distorted when it is screwed on.

3. Using a drill and size 6 bit, drill 2 holes at the points marked on the wall and push the plugs in.

4. Screw the lower part on and hang the upper part on the lower part from above.

1.5. - Indicators and connectors
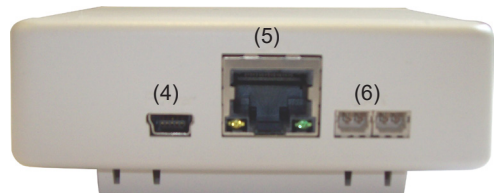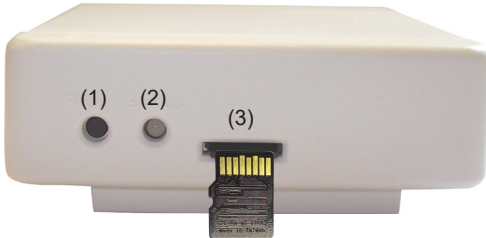
Insert the micro SD card into the card slot as shown (contacts above).

(1)	Reset button	(4)	Power cord xonnector
(2)	Two-colour LED lamp for function control	(5)	Ethernet
(3)	Micro SD card slot	(6)	CAN bus (2x)

1.6. - Electrical connection

Connect the data logger with the AC adapter included and plug it into the socket. The data logger will start automatically.

1.7. - Status-LED

The two-colour LED lamp indicates the status and the operation of the data logger.

LED lamp is green:	Micro SD card is correct and CAN bus available
LED lamp is red:	Micro SD card is not correct
LED lamp flashes red:	CAN bus is not correct

Operation

1.8. - Reset button

Restarting the data logger: Press and hold reset button for 5 seconds.

Install update: This is a special function (software update). Please only perform the update if you are prompted by the manufacturer!

1. Copy firmware.bin file directly to the SD card, the file may not be stored in a subfolder.
2. Insert the SD card into the SD card slot of the data logger.
3. Restart datalogger while pressing and holding reset button until the LED rapidly alternating red and yellow.
4. After completion update the LED is green and the datalogger is operating normally with the new firmware.

1.9. - Micro SD card

All data is stored on the micro SD card. When needed a firmware update can also be loaded from the micro SD card. See 1.8. Reset button.

1.10. - Ethernet connection

Connect the data logger with an Ethernet cable to an available port on your network router or switch. If your router is set as a DHCP server, an IP address is automatically assigned to the data logger. If DHCP is deactivated in the network, an IP address must be assigned manually. In this case, please refer to the instructions for your router.
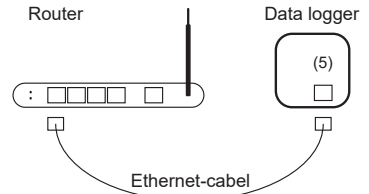
1.11. - CAN bus

The CAN bus can be used to connect two or more controllers with each other or with the data logger to exchange data.
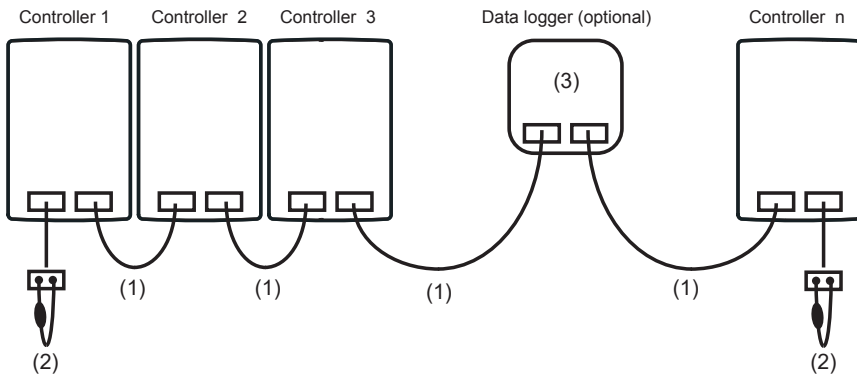
1. The controllers are connected in series with the CAN bus cable (1).
2. The first and last controller/data logger in this connection series must be fitted with a terminating resistor (2).

**The wiring of the two CAN sockets is optional.**
The available CAN functions are subject to the controller type as well as the software version used and can be seen in the corresponding manual.

1.12. - Connect data logger to internet

1. Connect data logger to router via ethernet cable (See. 1.10.).
If your router is set as DHCP Server, the router automatically generates
an IP address to the data logger. Check the manual for your router for help.

Router   Data logger

Ethernet-Kabel
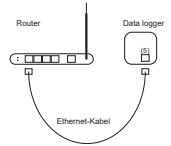
2. Connect data logger to controller by CAN bus cable. After that the data logger can be configured via the controller menu.

3. Search for the MAC address of the data logger, you will find it either on the bottom of the datalogger or in the controller menu
**>Special function > Networking
> Ethernet.**

Example:
MAC address is 02-50-C2-DB-7F-FF
-> DB7FFF (without "-") is the nabto
address of the data logger

Data logger

nabto://DB7FFF
.sorel-connect.net

Controllermenu

Ethernet	on
MAC 00-50-C2 DB-70-55	
Auto config (DHCP)	on
▲ ▼	Info

4. Enter address of your data logger in browser or app
General format is XXXXXX.sorel-connect.net

Replace XXXXXX with the 6 digit code from the MAC address as described in 3.

b) Sign in with your login data.

c) In your Nabto app or in your browser, you now get an „Access denied" message and your username will be displayed in the controller menu as described under 4. (see above).

Example:

←   DB7FFF.sorel-connect.net

⚠ **Make sure that you enter the 6 digit code without "-"!**

⚠ If the required user does not appear in the controller menu, repeat the connection attempt in your browser or app by pressing the refresh button.

5. At the controller: go to Menu
> Special Functions> Network> Access control and
select one of 4 free users by „Add User" with „OK".

Normaly this menue is empty, except „remove user".The
first connection attempt (see last step.) by a new User its
user name automatically appears in this menu and can be
selected, it is no input needed.

```
Leave access control
  <add user>
  <add user>
▲        ▼           OK
```

6. Now select the
User and confirm
Click „OK". The user
appears as an e-mail
address (= Your user
name name) in the
menu.

```
  <remove user>
  max@mustermann.de
▲        ▼           OK
```

```
Leave access control
  max@mustermann.de
  <add user>
▲        ▼           OK
```

1. a) To create an account, follow the link:
Create account.

Login

Please enter your email address and password to unlock your
key and get remote access to other devices.

Email
Password

Log in >

Guest >

Create account Reset password

Sign Up For Account

You are about to create an account on the central
server to give you safe remote access to your
devices. Please enter your email address and
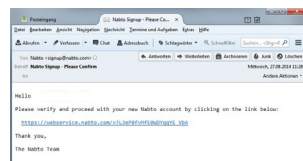choose a password of at least 6 characters to
continue.

Next, you will receive an email with a verification link - this link
will take you to the last step of the setup procedure to install a
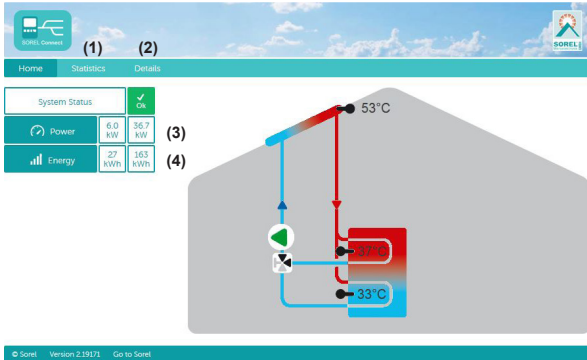key and certificate on your computer.

Email
Password

Create >

1. b) Confirm your e-mail address. Your
account is only active when you confirm
your email.

Hello

Please verify and proceed with your new Nabto account by clicking on the link below:

https://webservice.nabto.com/v/LiePdFnHfU8qDtggYG_Vb6
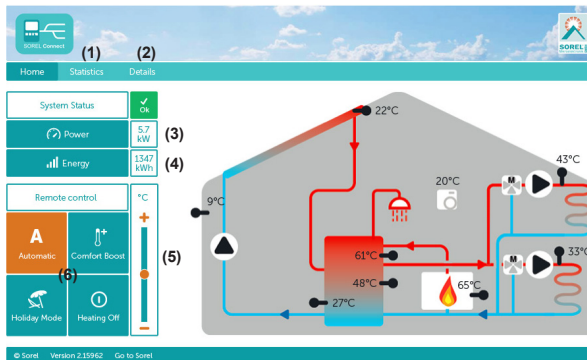
Thank you,
The Nabto Team

Operation

1.13. - Remote control

1.15.1. - Solar System

(1) Statistical overview of the heat quantity.

(2) Display of error messages and the current sensor and relay values.

(3) Current heat output of the solar system in KW.

(4) Current daily output of the solar system in KWh.

1.15.2. - Heating System

1. Statistical overview of the heat quantity.
2. Display of error messages and the current sensor and relay values.
3. Current heat output of the heat counter in KW
4. Current daily output in KW / hour
5. Remote controller for setpoint flow temperature.
6. Remote Control to control the system.

Automatic: Automatic mode - Time and temperature controlled operation.

Comfort Boost: turns the heating circuit (s) for 1 hour in the day mode with increasing comfort.

Holiday Mode: turns the heating circuit (s) in the permanent night setback and possibly turn off the DHW requirement.

Heating Off: turns off the heating circuit (s).

1.15.3. - Fresh Water System
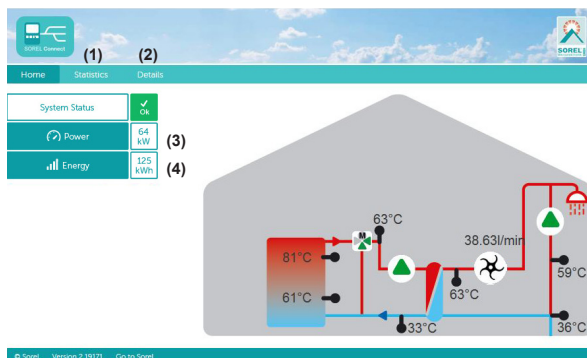
1. Statistical overview of the heat quantity.
2. Display of error messages and the current sensor and relay values.
3. Current output in KW
4. Heat quantity of the day in KW / hour.

Hydraulic variant set:

Commissioned on:

Commissioned by:

Notes:

Final declaration:
Although these instructions have been created with the greatest possible
care, the possibility of incorrect or incomplete information cannot be excluded.
Subject as a basic principle to errors and technical changes.

Manufacturer:

SOREL GmbH Mikroelektronik
Reme-Straße 12
58300 Wetter (Ruhr) | Germany
Telefon: +49 (0) 2335 68277-0
Fax: +49 (0) 2335 68277-10
E-Mail: info@sorel.de
Internet: www.sorel.de

Your specialist dealer: