List of related manuals

<table>
<thead>
<tr>
<th>Title</th>
<th>Code (English)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABB Remote monitoring portal user’s manual</td>
<td>3AUA0000098904</td>
</tr>
<tr>
<td>NETA-01 Ethernet adapter module user’s manual</td>
<td>3AFE64605062</td>
</tr>
<tr>
<td>SREA-50 remote monitoring adapter product manual</td>
<td>3AUA0000098875</td>
</tr>
<tr>
<td>SREA-50 remote monitoring adapter quick installation and start-up guide</td>
<td>3AUA0000098876</td>
</tr>
</tbody>
</table>

You can find manuals and other product documents in PDF format on the Internet. See section Document library on the Internet on the inside of the back cover. For manuals not available in the Document library, contact your local ABB representative.
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Introduction to the manual

What this chapter contains
This chapter contains general information on the manual including intended audience, contents, and a listing of terms and abbreviations.

Compatibility
The ABB Remote monitoring portal (RMP) is compatible with the following field devices:
- NETA-01 Ethernet adapter module and
- SREA-50 remote monitoring adapter.

The NETA-01 is compatible, for example, with PVS800 inverters.
The SREA-50 remote monitoring adapter is compatible with PVS300 string inverters.

Intended audience
This manual is intended for the users of the RMP.

Contents
The chapters of this manual and their contents are as follows:
- Description of the Remote monitoring portal (RMP) provides an overview of the ABB Remote monitoring portal.
- Setting up the Internet connection contains information on the requirements for the on-site Internet connection, and the Internet settings of the field devices connected to the monitored equipment.
- Monitoring the plant deals with the user interface of the RMP.
# Terms and abbreviations

<table>
<thead>
<tr>
<th>Term/Abbreviation</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Customer administrator</td>
<td>The customer’s specialist that commissions the RMP.</td>
</tr>
<tr>
<td>Customer portal</td>
<td>The website that contains the data collected from the equipment of the customer</td>
</tr>
<tr>
<td>DDCS</td>
<td>A communication protocol used by ABB equipment</td>
</tr>
<tr>
<td>DHCP</td>
<td>Dynamic Host Configuration Protocol</td>
</tr>
<tr>
<td>DNS</td>
<td>Domain Name Server. Translates network names into IP addresses.</td>
</tr>
<tr>
<td>Field device</td>
<td>The device, for example, SREA-50, that monitors the inverters etc on the plants, collects the monitored information and forwards it to RMP.</td>
</tr>
<tr>
<td>HTTP</td>
<td>Hypertext Transfer Protocol</td>
</tr>
<tr>
<td>IP address</td>
<td>Numerical address of a device on a network that uses the Internet Protocol</td>
</tr>
<tr>
<td>ISP</td>
<td>Internet Service Provider</td>
</tr>
<tr>
<td>NAT</td>
<td>Network Address Translation</td>
</tr>
<tr>
<td>NETA-01</td>
<td>Type of Ethernet adapter module to be installed on the monitored equipment and connected to the Internet through local networking</td>
</tr>
<tr>
<td>Plant</td>
<td>The monitored solar plant</td>
</tr>
<tr>
<td>Portal administrator</td>
<td>The person (at ABB) who maintains the RMP system and customer administrator accounts and permissions</td>
</tr>
<tr>
<td>RMP</td>
<td>ABB Remote monitoring portal</td>
</tr>
<tr>
<td>Section</td>
<td>If a plant has large number of monitored inverters the RMP site can be divided into sections</td>
</tr>
<tr>
<td>Site</td>
<td>RMP web pages that display the plant production data and information</td>
</tr>
<tr>
<td>SMS</td>
<td>Short Message Service</td>
</tr>
<tr>
<td>SMTP</td>
<td>Simple Mail Transfer Protocol</td>
</tr>
<tr>
<td>SREA-50</td>
<td>Type of remote monitoring adapter to be installed on the monitored equipment and connected to the Internet</td>
</tr>
</tbody>
</table>
Description of the Remote monitoring portal (RMP)

What this chapter contains

This chapter provides an overview of the Remote monitoring portal (RMP).

The RMP in brief

The RMP is an Internet-based service that continuously collects data from on-line equipment (such as wind or solar power plants, or drives) over the Internet, and allows the users to access the data with a web browser. Through the RMP, you can display summary reports of the whole plant and separate plant sections and receive reports automatically at specified intervals. You can monitor the current and status of separate inverters or inverter strings.

The monitored equipment is fitted with a NETA-01 or SREA-50 adapter module that is configured to send data to the RMP. The data is stored securely and protected by user permissions control.

The RMP enables long-time monitoring of selected parameters, comparisons between different equipment (for example, sections of a photovoltaic power plant), and CO₂ emission reduction calculations. Faults and alarms (ie. warnings) can be sent to you to an e-mail address or by SMS.

The RMP displays the data collected from the monitored equipment. The data can be exported into PDF, CSV, XLS and image formats.

The RMP is available for authenticated users. For separate instructions on the user and site administration, contact your local ABB representative.
Block diagram of the system
Setting up the Internet connection

What this chapter contains

This chapter contains information on the requirements for the on-site Internet connection, and the Internet settings of the field devices connected to the monitored equipment. The information in this chapter is mainly targeted on the customer administrator or network administrator.

Prerequisites

• It is presumed that the adapter is already installed and communicates with the monitored equipment.

• The adapter is connected to the Internet network. An Internet connection must be available on site as the service provided by ABB does not include one. For the connectivity of the adapter, see its manual.

• The IP address of the NETA-01/SREA-50, as well as a system administrator-level username and password, must be at hand.

• The browser used for NETA-01 configuration must support Java applets and the browser used for SREA-50 must be JavaScript-enabled and Java-enabled.

• **Note:** For communicating with the RMP, SREA-50 and NETA-01 must be set to the UTC time. SREA-50 uses the GMT time zones. Check that the time zone of SREA-50 is the same as the UTC time of the RMP.

For details, see *NETA-01 Ethernet adapter module User's manual* (3AFE64605062 [English]) and *SREA-50 remote monitoring adapter product manual* (3AUAD0000098875 [English]).
Setting up the Internet connection

Note: The SMTP server must:
- allow access from the IP address specified for the adapter
- be listening to port 25
- be available without encryption. Basic SMTP authentication can be used.
- allow the sender address to be of the format [xxxxx]@mydrives.info. If the e-mail address has to be set otherwise, contact your local ABB representative.

Configuring NETA-01 for RMP

1. Acquire the NETA-01 configuration file from your local ABB representative.
2. Download the NETA-01 configuration file to your PC.
3. Unzip the configuration package into a suitable folder.
4. Connect the PC to the NETA-01 using one of the following methods:
5. Assign the PC with an IP address that can be used to access the NETA-01. For example, if the NETA-01 has the address 192.168.2.10, assign the PC an unoccupied address in the area of 192.168.2.x.

6. Set also the netmask (in this case, to 255.255.255.0).

7. You can test the connection via the Command prompt by entering
   `ping 192.168.2.10`
   This should return a reply such as
   `Reply from 192.168.2.10: bytes=32 time<1ms TTL=128`
   four times.
   (If the connection is not working, a “Request timed out.” message is displayed.)
8. Run the batch file `upload_emails.bat` (located in the folder into which you unzipped the configuration package earlier).

9. Answer the questions according to the settings information you saved or noted down earlier. In the screenshot below, the answers are shown in white.

![Screenshot of command prompt](image)

10. Use your browser to connect to the NETA-01.

11. The batch overwrites the DDCS settings; check that they are correct.

12. Check the Ethernet settings.

Repeat the procedure for all other NETA-01 modules.
Configuring SREA-50 for RMP

For detailed instructions on using the SREA-50 web user interface, see *SREA-50 remote monitoring adapter product manual* (3UA0000098875 [English]).

**Note:** You must have Super Admin access rights to be able to access the Setup pages.

Creating a user of the RMP portal

1. To add the RMP portal as a user to the SREA-50, select **Setup -> Users -> Add user** in the SREA-50 web user interface.

2. When adding the user, configure the e-mail address to which the data is sent (neta@mydrives.info).
3. Configure the SMTP server of your service provider and set the e-mail address from which the data is sent (Setup -> E-mail).

**Note:** To be able to send e-mails, you have to specify a host name on the Setup – Ethernet page.

**Note:** Send this address to the RMP administrator/local ABB representative. This is the address that RMP uses as the unique identifier of the plant (SREA).

4. Select the log parameters to be sent to the RMP (Configuration -> Log -> General Log Settings -> Log Parameters).
5. In the Edit log parameter page, write the parameter description exactly in the format given in the following table.

<table>
<thead>
<tr>
<th>Group</th>
<th>Parameter name</th>
<th>Description to be used for RMP</th>
</tr>
</thead>
<tbody>
<tr>
<td>01: Actual values</td>
<td>01.09 DC-VOLTAGE [V]</td>
<td>inverterN_dc_voltage</td>
</tr>
<tr>
<td>01: Actual values</td>
<td>01.11 OUTPUT VOLTAGE [V]</td>
<td>inverterN_mains_voltage</td>
</tr>
<tr>
<td>01: Actual values</td>
<td>01.12 OUTPUT POWER [kW]</td>
<td>inverterN_power</td>
</tr>
<tr>
<td>01: Actual values</td>
<td>01.14 INVERTER ENERGY COUNTER [kWh]</td>
<td>inverterN_kwh1</td>
</tr>
<tr>
<td>04: Warnings and faults</td>
<td>04.01 Active fault</td>
<td>inverterN_act_fault</td>
</tr>
<tr>
<td>04: Warnings and faults</td>
<td>04.06 Active warning 1</td>
<td>inverterN_act_warn1</td>
</tr>
<tr>
<td>04: Warnings and faults</td>
<td>04.07 Active warning 2</td>
<td>inverterN_act_warn2</td>
</tr>
<tr>
<td>04: Warnings and faults</td>
<td>04.08 Active warning 3</td>
<td>inverterN_act_warn3</td>
</tr>
<tr>
<td>04: Warnings and faults</td>
<td>04.09 Active warning 4</td>
<td>inverterN_act_warn4</td>
</tr>
<tr>
<td>04: Warnings and faults</td>
<td>04.10 Active warning 5</td>
<td>inverterN_act_warn5</td>
</tr>
<tr>
<td>06: Inverter status</td>
<td>Status word</td>
<td>inverterN_main_statusw</td>
</tr>
</tbody>
</table>

6. Give the log parameters separately for each inverter connected to SREA.
7. Set the interval for sending the logs as given below:
   - **Log Interval** - 5 min
   - **Log Type** - Circular logging (Old entries is overwritten)
   - **Maximum send log interval** - 5 Minutes
   - **Send log files as E-mail attachment** - Enable

8. Click **Start**.

Repeat the procedure for all other SREA-50 modules.
Setting the SREA-50 time zone

Note: For communicating with the RMP, SREA-50 and NETA-01 must be set to the UTC time. SREA-50 uses the GMT time zones. Check that the time zone of SREA-50 is the same as the UTC time of the RMP. If needed, set the SREA-50 time zone manually.

Note: You must have Super Admin access rights to be able to access the SREA-50 Setup pages

1. To set the time zone of SREA-50, select Setup -> Regional in the SREA-50 web user interface.

2. Click Save settings.
Examples

- **Local area network with an external SMTP server**

This drawing shows a typical ADSL/VDSL connection. The modem can either be in the bridging or NAT mode. When the modem is in the bridging mode, IP addresses are assigned to the NETA-01/SREA adapters by the SMTP server. If the modem is in the NAT mode, it assigns the IP addresses to the devices in the local network. In either case, DHCP can be used, so no fixed IP addresses are needed. If DHCP is not used with the modem in the NAT mode, fixed IP addresses must be defined for the NETA-01/SREA adapters, and so must gateway and DNS addresses.

The name or address of the SMTP server is required; also, the requirements for the SMTP server stated under *Configuring SREA-50 for RMP* (page 15) must be fulfilled.
Local area network with a local SMTP server

This example represents a typical office network. Let us assume that the local IP address 192.168.2.10 is reserved for the NETA-01, 192.168.2.11 for SREA-50 and 192.168.2.2 is the SMTP server. The subnet mask is 255.255.255.0, so both the IP addresses are located in the same network. The SMTP server is configured to allow the sending of mail from all local IP addresses (192.168.2.x).

In this case, all that needs to be done is to provide the NETA-01/SREA-50 with the information of its own IP address as well as that of the SMTP server.
3G modem connection with an external SMTP server

In this case, no broadband Internet connection is available, and a 3G modem with a SIM card from a local Internet service provider (ISP) is used. Typically, 3G modems acquire an IP address by DHCP. The SMTP server is specified by the ISP.
Monitoring the plant

What this chapter contains
This chapter deals with the user interface of the RMP.

Connecting to the RMP With a web browser, navigate to https://www.mydrives.info.
Enter your username and password in the available fields and click the OK button. The main page appears.
RMP user interface

■ Main page

The links in the left-hand pane are used to navigate within the RMP. Clicking Main any time displays this page.

ABB updates the text content of this page, for example, with news concerning the users of the application.

■ Upper-right corner icons

All the RMP pages have the View the current page in full-screen mode, Go to Home and Logout icons in the upper-right corner of the page.

Note: Remember to Logout to end your user session when using a common computer.
Map page

Clicking Map displays a map view of the sites that you have the permission to monitor. The color of the marker on each location indicates the status of the site; the meaning of the colors are listed below the map.

You can move the view by clicking the map and dragging. To zoom in and out, either click the + or – signs on the left edge of the map or move the slider in between.

The sites can be filtered by entering a text string into the field at the upper-right corner of the map; only the sites whose names contain that string are shown. The filter is removed by clicking the ✗ in the field.
Sites

The site details are available through the links in the left-hand pane. In the screen shots in this manual, FIABB represents the customer name.

Clicking a customer name (or the + sign to the right of the name) shows the plants and sections defined for that customer and the plant summary.

Clicking the section name shows the inverters of the section and the section summary.

Clicking the inverter name shows the monitoring pages for the inverter.
Plant summary

Status

The Plant summary -> Status provides a summary of the plant status and production.

Click the tabs to select the desired graphical display. To select a specific date, click the Day, Week and Month links (or the calendar button) at the bottom of the page. < and > display the previous or next period of the same length. + and - scale the period up or down. Clicking Apply to all sets the selected date to all tabs; clicking Reset returns the tabs to the present date.

To export the data to a file, click More and select the desired file format.

If you wish to view several curves at the same time for comparison analysis, click the parameter you wish to add to the view.
Inverters

This page shows various measurements concerning the currently-selected inverter.

For the commands available next to each graphical display, see section Plant summary (page 27).
Expert

The Inverters page contains the Expert tab. The Expert page displays all the incoming parameters of the inverters.

For the commands available next to each graphical display, see section *Plant summary* (page 27).
Reports

The Reports page provides weekly, monthly, yearly and longterm performance reports.

<table>
<thead>
<tr>
<th>Status</th>
<th>Inverters</th>
<th>Reports</th>
<th>Performance</th>
<th>Forecast</th>
<th>Strings</th>
<th>Alarms</th>
<th>Info</th>
</tr>
</thead>
<tbody>
<tr>
<td>WeeklyReport-2012-09-10.xls</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>WeeklyReport-2012-09-03.xls</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>WeeklyReport-2012-08-27.xls</td>
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<tr>
<td>WeeklyReport-2012-08-20.xls</td>
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<tr>
<td>WeeklyReport-2012-08-13.xls</td>
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<tr>
<td>MonthlyReport-2012-08.xls</td>
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<tr>
<td>MonthlyReport-2012-07.xls</td>
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<td>MonthlyReport-2012-06.xls</td>
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<tr>
<td>MonthlyReport-2012-05.xls</td>
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<tr>
<td>MonthlyReport-2012-04.xls</td>
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<tr>
<td>YearlyReport-2011.xls</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>YearlyReport-2010.xls</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Performance

The Performance page contains a graphical display of the estimated energy and actual measured energy.

For the commands available next to each graphical display, see section Plant summary (page 27).
Strings (solar power plants only)

You can display the Strings page through the Plant summary (all strings of the plant), Section summary (strings of the selected section) and Inverter (the string to which the inverter belongs).

The following screen shot shows the string data on an individual inverter.

For the commands available next to each graphical display, see section Plant summary (page 27).
Alarms

This page shows info on the plant faults and alarms (warnings).

**Faults**

11/1/2 11:04 AM - 11/1/2 12:04 PM

<table>
<thead>
<tr>
<th>Time</th>
<th>Channel</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>11/1/2 11:21:58 AM EET</td>
<td>mailfault</td>
<td>➔ EXT D4 (1080)</td>
</tr>
<tr>
<td>11/1/2 11:21:56 AM EET</td>
<td>mailfault</td>
<td>➔ EXT D4 (1080)</td>
</tr>
<tr>
<td>11/1/2 11:21:55 AM EET</td>
<td>mailfault</td>
<td>➔ EXT D4 (1080)</td>
</tr>
<tr>
<td>11/1/2 11:21:54 AM EET</td>
<td>mailfault</td>
<td>➔ EXT D4 (1080)</td>
</tr>
</tbody>
</table>

Returned 4 rows.

**Warnings**

11/1/2 11:04 AM - 11/1/2 12:04 PM

<table>
<thead>
<tr>
<th>Time</th>
<th>Channel</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>11/1/2 11:27:54 AM EET</td>
<td>mailwarning</td>
<td>➔ AUTORESET A (6061)</td>
</tr>
<tr>
<td>11/1/2 11:25:55 AM EET</td>
<td>mailwarning</td>
<td>➔ EM STOP (F031)</td>
</tr>
<tr>
<td>11/1/2 11:26:54 AM EET</td>
<td>mailwarning</td>
<td>➔ EM STOP (F031)</td>
</tr>
<tr>
<td>11/1/2 11:25:00 AM EET</td>
<td>alarm_2</td>
<td>Other alarm (408h)</td>
</tr>
<tr>
<td>11/1/2 11:21:57 AM EET</td>
<td>mailwarning</td>
<td>➔ AUTORESET A (6061)</td>
</tr>
</tbody>
</table>

Returned 5 rows.
Info

This page shows site information as specified by the customer administrator.

<table>
<thead>
<tr>
<th>Site/project name: ABB Eroof Pitäjänmäki</th>
<th>coordinates: 60 N, 23.14 E</th>
</tr>
</thead>
<tbody>
<tr>
<td>location: Helsinki, Valino</td>
<td>altitude: 65 m</td>
</tr>
<tr>
<td>plant timezone: Europhesani</td>
<td></td>
</tr>
<tr>
<td>PV array power: 181 kW</td>
<td></td>
</tr>
<tr>
<td>installation type: Fixed, roof mounted</td>
<td></td>
</tr>
<tr>
<td>solar module: Napa 19P2150K, poly crystalline</td>
<td></td>
</tr>
<tr>
<td>array tilt: 30 degrees</td>
<td></td>
</tr>
<tr>
<td>array orientation: 25 degrees from south</td>
<td></td>
</tr>
<tr>
<td>Inverter power: 162 kW</td>
<td></td>
</tr>
<tr>
<td>PV/S500: 120 kW, 1 pcs</td>
<td></td>
</tr>
<tr>
<td>PV/S300: 3 x 6 kW = 3 x 6 kW</td>
<td></td>
</tr>
<tr>
<td>General system info:</td>
<td></td>
</tr>
<tr>
<td>grid connection: LV grid</td>
<td></td>
</tr>
<tr>
<td>string monitoring: For central inverter ABB junction boxes</td>
<td></td>
</tr>
<tr>
<td>weather measurements: Solar irradiation, Tmab, Tmodule</td>
<td></td>
</tr>
<tr>
<td>additional measurements: No</td>
<td></td>
</tr>
<tr>
<td>Other information:</td>
<td></td>
</tr>
<tr>
<td>plant commissioned: 20.6.2010</td>
<td></td>
</tr>
<tr>
<td>measured since: 9.7.2010</td>
<td></td>
</tr>
<tr>
<td>CO2 coefficient: 0.0011 tons/kWh</td>
<td></td>
</tr>
</tbody>
</table>
Section summary

Status

Section summary -> Status provides a summary of the section status and production.

For the commands available next to each graphical display, see section Plant summary (page 27).
Inverters
This page shows various measurements concerning the currently-selected inverter. See
*Inverters* (page 28).

Strings (solar power plants only)
You can display the *Strings* page through the *Section summary* (strings of the selected
section), *Plant summary* (all strings of the plant) and *Inverter* (the string to which the
inverter belongs). See (page 31).

Alarms
This page shows info on the section faults and alarms (warnings). See *Alarms* (page 33).

- Documentation
This page will collect together links to documentation related to the RMP, for example,
detailed specification for performance ratio.
Further information

Product and service inquiries
Address any inquiries about the product to your local ABB representative, quoting the type designation and serial number of the unit in question. A listing of ABB sales, support and service contacts can be found in the product pages at www.abb.com/solar.

Product training
For information on ABB product training, navigate to www.abb.com/solar and select Photovoltaic systems – Solar inverters – Training courses.

Providing feedback on the manual
Your comments on our manuals are welcome. Go to www.abb.com/drives and select Document Library – Manuals feedback form (LV AC drives).

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Go to www.abb.com/solar and click the links under Downloads. You can browse the library or enter selection criteria, for example a document code, in the search field.