ОПЦИИ ДЛЯ РАСШИРЕНИЯ ФУНКЦИОНАЛА ПРИВОДОВ
Техническое описание
на модели удаленного мониторинга

SREA, NETA

NETA-21 remote monitoring tool Installation and start-up guide

Mechanical installation

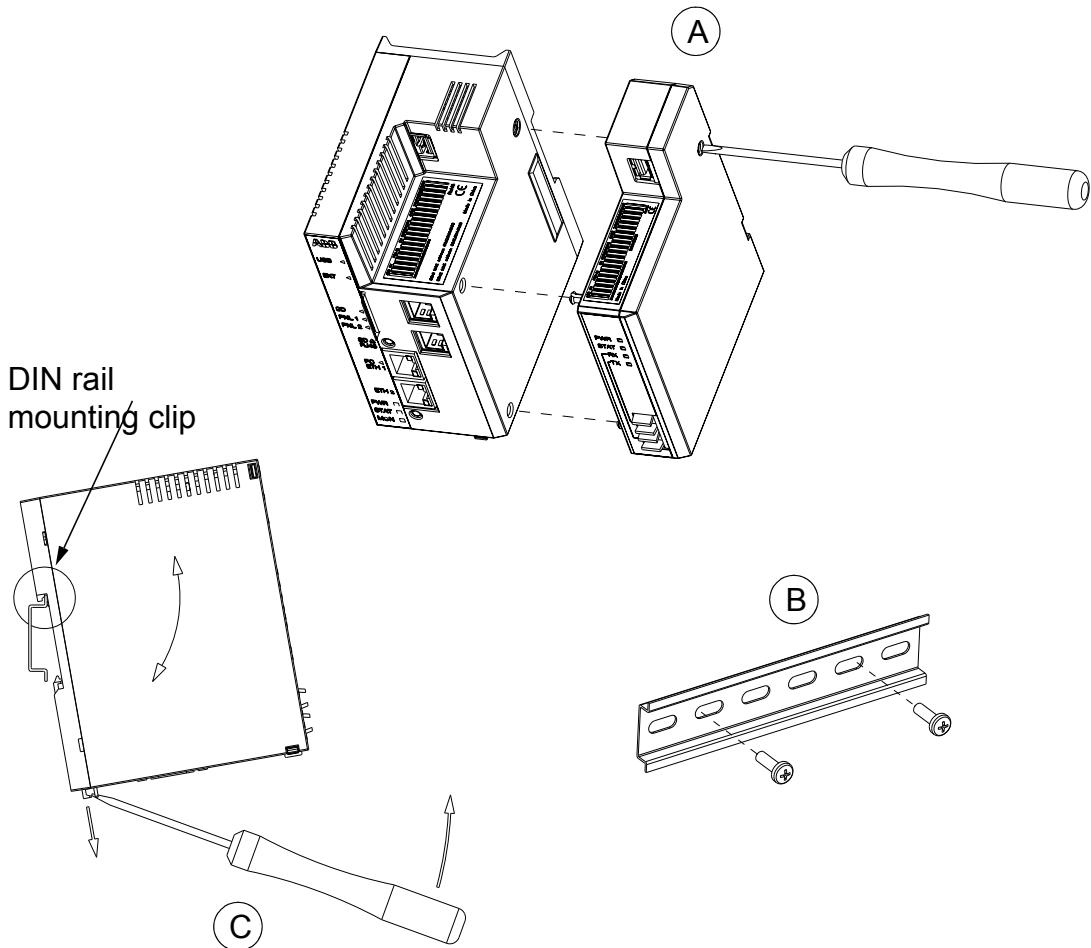### ■ Installing NEXA-21 to NETA-21

1. Press the NEXA-21 against the NETA-21.

2. Tighten the grounding screw (A).

   Do not use excessive force.

■ Mounting instructions

1. Protect the devices from the drilling dust.

2. Drill the holes for the fastening screws of the mounting rail.

3. Fasten the mounting rail (B).

4. Snap the remote monitoring tool onto the rail (C).

DIN rail mounting clip

Electrical installation

■ **Grounding**

The ground of the remote monitoring tool is connected to the mounting rail by means of an grounding clip. The mounting rail onto which the remote monitoring tool is to be mounted must be grounded to a noiseless ground. If the rail is not mounted on a properly grounded base, a separate grounding conductor must be used. The conductor must be as short as possible and its cross-sectional area must be 6 mm^2 at least.

Note: No solid copper conductor may be used (stranded wire allowed only).

■ **Connections with drives, converters and inverters**

■ **Power connections**

Connect the power supply to connector X1 of the NETA-21 module. The NETA-21 supplies also the NEXA-21. For information on the connector type, voltage and power specification, see *Connectors*.

Note: In the NEXA-21, there is an alternative power supply input (X11), which you can use for supplying power to the NEXA-21 and the NETA-21.

The remote monitoring tool is compatible with various ABB drives, converters and inverters.
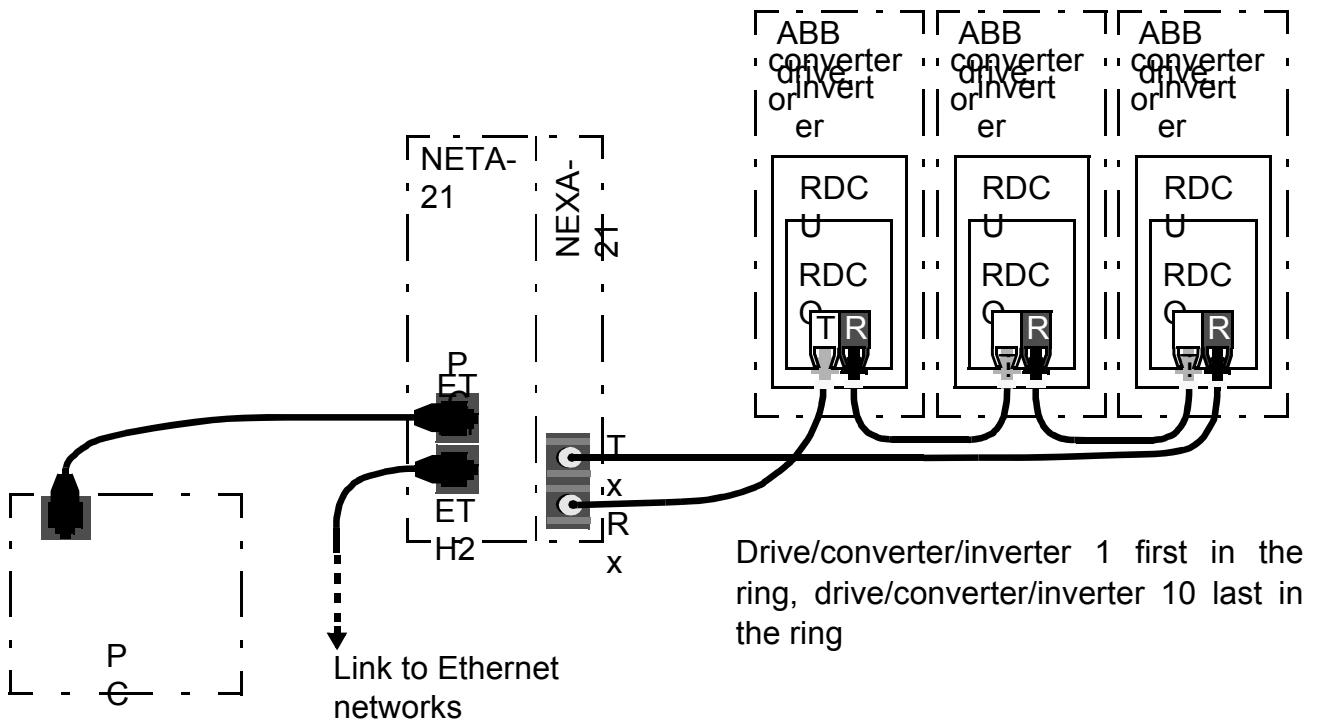
As shown on page *8*, the NETA-21 can be connected directly to a panel bus if the drive (/ inverter/converter) has an Assistant control (ACS-AP-x) panel.

If the unit to be monitored does not have the ACS-AP-x panel but it is equipped with an RDCU control unit, you can connect the unit to the NETA-21 through the fiber optic channel of the NEXA-21. See the connections diagrams in section

Data link connections –
Drive (/converter/inverter) with the RDCU control unit

The figure below shows the data connections in a ring topology when a fiber optic link is used.

Drive/converter/inverter 1 first in the ring, drive/converter/inverter 10 last in the ring

Connect the NETA-21 primarily to fiber optic channel ch3 on the RDCO connector unit. You can connect the NETA-21 also to ch0 if the maximum speed of the DDCS communication does not increase above 1 Mbit/s.

The default the NETA-21 settings for a DDCS network are ring topology and 1 Mbit/s communication speed. With these settings, the NETA-21 can normally auto-detect drives (/converters/inverters) connected to an NDBU branching unit. The NETA-21 auto-detects connected devices when the fiber is connected for the first time. If reconfiguration is needed afterwards, it can be done in the web user interface.

If the DDCS communication speed is higher than 1 Mbit/s, the NETA-21 settings and device interfaces must have the same speed settings as the NDBU unit.

First access to the user interface

This guide describes how to access the user interface by using the NETA-21 as a DHCP server.

The NETA-21 uses dynamic IP addressing by default. After powering up, the NETA-21 tries to get a dynamic IP address from the local network if there is a DHCP server available. If there is no DHCP server in the local network, the NETA-21 defaults to zero configuration networking. In the zero configuration network mode, the NETA-21 chooses an IP address in the range of 169.254.1.0…169.254.254.255.

When a PC is connected locally to the PC ETH 1 port, the NETA-21 can be activated to function as a DHCP server.

Connecting a local PC to the NETA-21 functioning as a DHCP server Notes:
- DHCP cannot be used in a networked environment where other DHCP servers exists.
- Make sure that DHCP is enabled on PC Ethernet. If the PC Ethernet is on static mode, NETA-21 cannot provide dynamic IP to the PC.

Switch on the power to boot the remote monitoring tool.

Wait until the set-up has finished and the STAT LED is green.

Press the SD RJ45 button for 5 seconds or until the PC ETH1 LED starts to blink. The NETA-21 starts functioning as a DHCP server via the PC ETH 1 port.

Connect the PC to the PC ETH 1 port.
The NETA-21 provides a dynamic IP to the PC.
The PC ETH 1 LED indicates a connection (green blink = waiting, green = connected).
Notes: If the PC is not successfully connected to the NETA-21 within 1 minute, the DHCP server mode is switched off.

With the web browser of you PC, navigate to https://192.168.230.1.

Note: If an Ethernet wire is connected to the NETA-21 before the SD RJ45 button has been pressed, the PC does not automatically request for an IP address.

3AUA0000039179
Intelligent Ethernet adapter with Modbus interface SREA-01

General Information

Global Commercial Alias	3AUA0000039179
Product ID	3AUA0000039179
ABB Type Designation	SREA-01
EAN	6410038040840
Catalog Description	Intelligent Ethernet adapter with Modbus interface SREA-01

Orderin

Country of Origin	Sweden (SE) United States (US) Finland (FI)
Customs Tariff Number	85049090
Invoice Description	Intelligent Ethernet adapter with Modbus interface SREA-01
Made To Order	No
Minimum Order Quantity	1 piece
Order Multiple	1 piece
Quote Only	No
Selling Unit of Measure	piece

Container Information

Gross Volume	0 m³

Dimensions

Product Net Weight	0.32 kg
Product Net Depth / Length	0.11 mm
Product Net Height	0.11 mm
Product Net Width	0.11 mm
Package Level 1 Units	1 carton

Technical

Frame Size	Undefined

Additional Information

Product Main Type	SREA-01
Product Name	Fieldbus options for drives

Classifications

UNSPSC	39120000 39122004

Environmental

SCIP	242fa3fa-e23d-44a5-8e1f-4390c5c2c96e Finland (FI)
WEEE Category	Product Not in WEEE Scope

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