

DRA server
Order No. : 5301 00
Power adapter eNet Server 12 V DC

Operating instructions

1 Safety instructions

Electrical equipment may only be installed and fitted by electrically skilled persons.

Serious injuries, fire or property damage possible. Please read and follow manual fully.

Fire hazard! Operation exclusively with the power supplies listed under accessories

Use plug power supply only for the eNet server. Do not connect any other devices.
Damage to devices may result.

The radio communication takes place via a non-exclusively available transmission path, and is therefore not suitable for safety-related applications, such as emergency stop and emergency call.

These instructions are an integral part of the product, and must remain with the end customer.

2 Device components

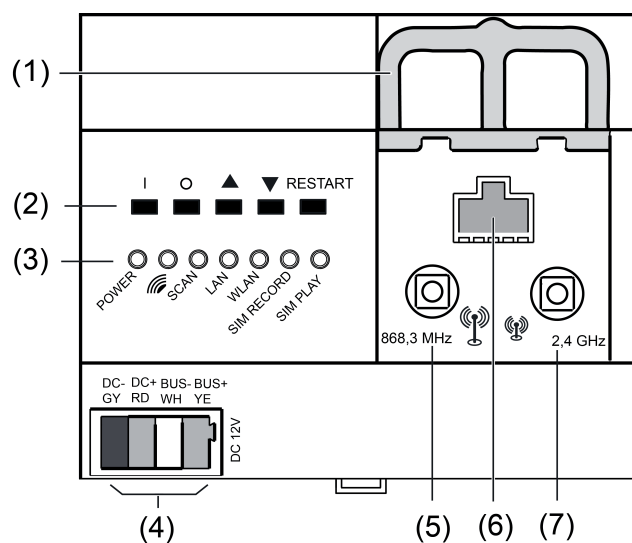


Figure 1: Front view eNet server

- (1) Slide for retaining the antenna cable
- (2) Buttons for manual operation and restart
- (3) LEDs
- (4) Bus line connection
- (5) Socket for external eNet antenna
- (6) RJ45 socket for Ethernet connection
- (7) Socket for external WLAN antenna

3 Function

System information

This device is a part of the eNet system.

High transmission reliability at a radio frequency of 868 MHz is achieved by the transmission behaviour and bidirectional data transfer.

The range of a radio system depends on various external circumstances. The range can be optimised by the choice of installation location.

This device complies with the requirements of the R&TTE Directive 1999/5/EC. Declaration of Conformity and further information on the eNet system can be found on our website.

The device may be operated in all EU and EFTA countries.

Intended use


- Commissioning, diagnosis and maintenance of eNet installations via PC, tablet or laptop
- Operation of eNet installations via PC, smartphone, tablet or laptop
- Radio receiver for eNet RMD modules
- Operation only with approved power supply (see accessories)
- Mounting on DIN rail according to EN 60715 in distribution boxes with power supply RMD
- Mobile use of the eNet server with plug power supply

Product characteristics

- Internal eNet radio and WLAN antenna
- External eNet radio and WLAN antennas for extending the radio ranges can additionally be connected
- LEDs for signalling
- Buttons for construction site mode and restart of the eNet server
- Electrical separation between the connections of the external antennas and the Ethernet connection

Signalling

The table below provides an overview of the signalling via LEDs of the eNet server.

Labelling, Colour of the LED	Function
POWER , green	Flashes: eNet-Server starts Illuminated: eNet server ready for operation
 , green	Telegram transmission active
SCAN , green	Scan operating mode active
LAN , green	Ethernet connection active
WLAN , green	WLAN connection active
SIM RECORD , red	Recording of presence simulation
SIM PLAY , green	Reproduction of presence simulation

4 Operation

Operation on the device

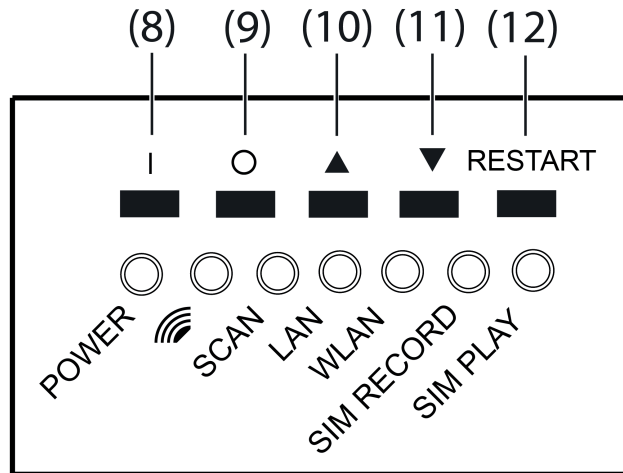


Figure 2: Buttons of the eNet server for manual operation

- (8) Button **I**: All On
- (9) Button **O**: All Off
- (10) Button **▲**: All Up
- (11) Button **▼**: All Down
- (12) Button **RESTART**

Switching all switches and dimmers

- Press **I** button to switch on.
- Press **O** button to switch off.

Moving all blinds/shutters

- Press **▲** button to raise the blinds/shutters.
- Press **▼** button to lower the blinds/shutters.


Performing a restart

The eNet server can be restarted without voltage interruption via the **RESTART** button.

- Press the **RESTART** button (12) for longer than 10 seconds.


A restart of the eNet server is performed. The **POWER** LED flashes during the restart and illuminates when the eNet server is ready for operation.

Resetting network configuration

- Press the **RESTART** button (12) for longer than 4 seconds.
The **POWER**,  and **SCAN** LEDs flash.
- To reset the network configuration to LAN with fixed IP address (192.168.0.22), press **▼** button within 10 seconds.
- To reset the network configuration to LAN with DHCP-Modus, press **▲** button within 10 seconds.
The network configuration is reset and WLAN deactivated.


Resetting users and passwords to factory setting

- Press the **RESTART** button (12) for longer than 4 seconds.

The **POWER**,  and **SCAN** LEDs flash.


- Within 10 seconds press **I** button for 4 seconds.

Users and passwords are reset to factory setting. A restart of the eNet server is performed. The **POWER** LED flashes during the restart and illuminates when the eNet server is ready for operation.

-  For first log-on, enter "admin" both as the username and password. For security reasons, change the password after this.

Deleting all projects

- Press the **RESTART** button (12) for longer than 4 seconds.

The **POWER**,  and **SCAN** LEDs flash.

- Within 10 seconds press **O** button for 4 seconds.

All projects are deleted. A restart of the eNet server is performed. The **POWER** LED flashes during the restart and illuminates when the eNet server is ready for operation.

5 Information for electrically skilled persons

5.1 Fitting and electrical connection



DANGER!

Electrical shock when live parts are touched.

Electrical shocks can be fatal.

Before working on the device, disconnect the power supply and cover up live parts in the working environment.

Fitting the device

Observe the temperature range. Ensure adequate cooling.

- Mount device on DIN rail with the terminals facing downwards.

Connecting the device

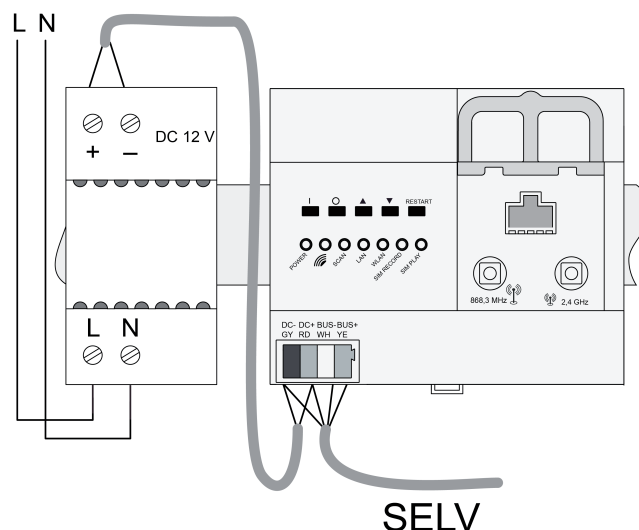


Figure 3: Connection diagram

Use a suitable bus line, e.g. J-Y(St)Y 2x2x0.8.

- Connect the device according to the connection diagram (Figure 3).

- i** Unfavourable installation conditions make radio reception more difficult. In the case of metallic sub-divisions etc., connect external antenna and position outside of the distribution board.
- i** Do not connect the eNet server to an RMD radio receiver.

Connection assignment

Labelling / Colour	Connection
DC–, GY / dark grey	Power supply, –
DC+, RD / red	Power supply, +
BUS–, WH / white	Data cable, –
BUS+, YE / yellow	Data cable, +

Connect the power supply

- i** The plug power supply (scope of delivery) must be used for mobile use of the eNet server.
- i** The secondary line of the plug power supply carries SELV potential and is only singly insulated. When using the plug power supply in subdistributors, ensure safe isolation from other voltages, e.g. through insulation.

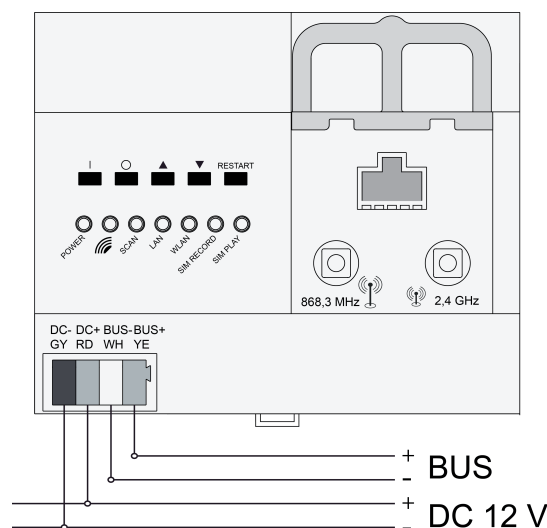


Figure 4: Connection of the power supply RMD

- Connect power supply to the connection (4) of the eNet server.
- Switch on voltage.
The eNet server is started.

Connecting external antennas

An external WLAN antenna can be connected to improve the radio range of the WLAN connection. An eNet antenna can be connected to improve the radio range between the eNet server and installation devices.

- Unlock the slide (1) by pulling the end of the bow forwards. Pull out slide.
- Place the antenna outside of the distribution board and insert antenna cable into the distribution board.
- i** The antenna cables carry SELV potential and are only singly insulated. Ensure safe isolation from other voltages, e.g. through insulation.
- Insert the antenna connector into the socket (5) for the eNet antenna or socket (7) for the WLAN antenna.
- Re-insert slide (1) until it engages noticeably.

- i** The slide fixes the antenna cable in place and ensures that the maximum installation height in the distribution board is maintained.

5.2 Commissioning

Connecting computer with eNet server

The eNet server is installed and the external antennas is connected if necessary.

The power supply is connected.

- i** The computer must belong to the same network as the eNet server, i.e. the net IDs of the client and eNet server are identical.
 - Establish network connection. To do this, connect the network cable to the eNet server (6) and computer.
 - Start web browser.

Web browser	Minimum version
Internet Explorer	10.0
Google Chrome	33.0
Firefox	24.0
Safari/Mac OS	6.0

- Enter URL <http://192.168.0.22> in the address line of the web browser.
The connection to the eNet server is established and the start page of the eNet server opened.
- Enter your user name and password.
- i** For first log-on, enter "admin" both as the username and password. For security reasons, change the password after this.
- Select **Log on**.
- i** Further information, such as configuration of the eNet server, commissioning and operation of the electrical system via the eNet server can be found on our website and in the online help of the software.

6 Appendix



The icon confirms the conformity of the product to the relevant guidelines.

Legal Notice

This product incorporates open source software components covered by the terms of third party copyright notices and/or license agreements. The technical documentation of the eNet server contains detailed information on this.

6.1 Technical data

DRA server, Order No. 5301 00

Rated voltage	DC 12 V SELV
Current consumption	400 mA
Power consumption	
mode	max. 6 W
Standby	max. 2 W
Ambient temperature	-5 ... +45 °C
Storage/transport temperature	-20 ... +70 °C
Relative humidity	20 ... 70 % (No moisture condensation)
Protection class	III
Fitting width	108 mm / 6 modules
Connections	
Supply	Connection terminal

LAN	RJ45-socket 8-pin
WLAN antenna, external	SMB socket
Bus line	
Cable length	max. 3 m
RMD modules	
Number	max. 32
IP communication	
LAN	Ethernet 10/100 MBit
WLAN	2.4 GHz, IEEE 802.11g
IP connections	max. 8
eNet communication	
Radio frequency	868.3 MHz
Transmitting range in free field	typical 100 m
Power adapter eNet Server 12 V DC	
Rated voltage	AC 230 / 240 V ~
Mains frequency	50 / 60 Hz
Output voltage	DC 12 V =
Output current	max. 1 A
Primary current	max. 130 mA
Connected load	12 W
Efficiency	approx. 80 %
Ambient temperature	+5 ... +25 °C

6.2 Troubleshooting

Connection to the eNet server via a network cannot be established.

IP address of the eNet server has already been assigned in the network.

Remove device with the same IP address from the network. Change the IP address of the eNet server via the configuration menu. Add device again to the network. The eNet server can be added to the network with the new IP address.

6.3 Accessories

Power supply 12 V DC / 2 A DRA	Order No. 5319 00
Additional radio antenna	Order No. 5307 00
Additional WLAN antenna	Order No. 5308 00
Network adapter eNet-Server 12 V DC (included in the scope of delivery)	

6.4 Warranty

The warranty is provided in accordance with statutory requirements via the specialist trade.

Please submit or send faulty devices postage paid together with an error description to your responsible salesperson (specialist trade/installation company/electrical specialist trade). They will forward the devices to the Gira Service Center.

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