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Quick Start

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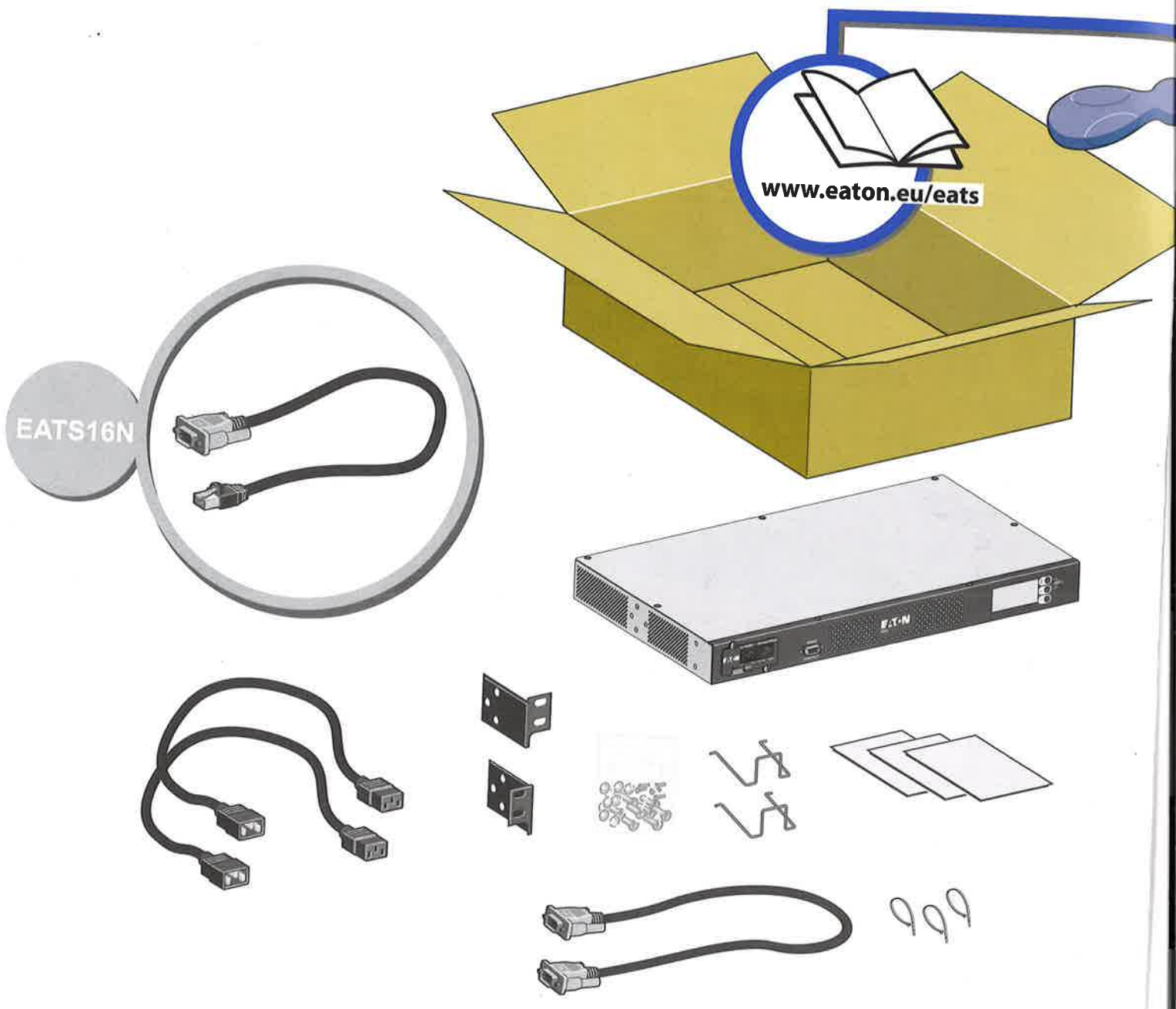
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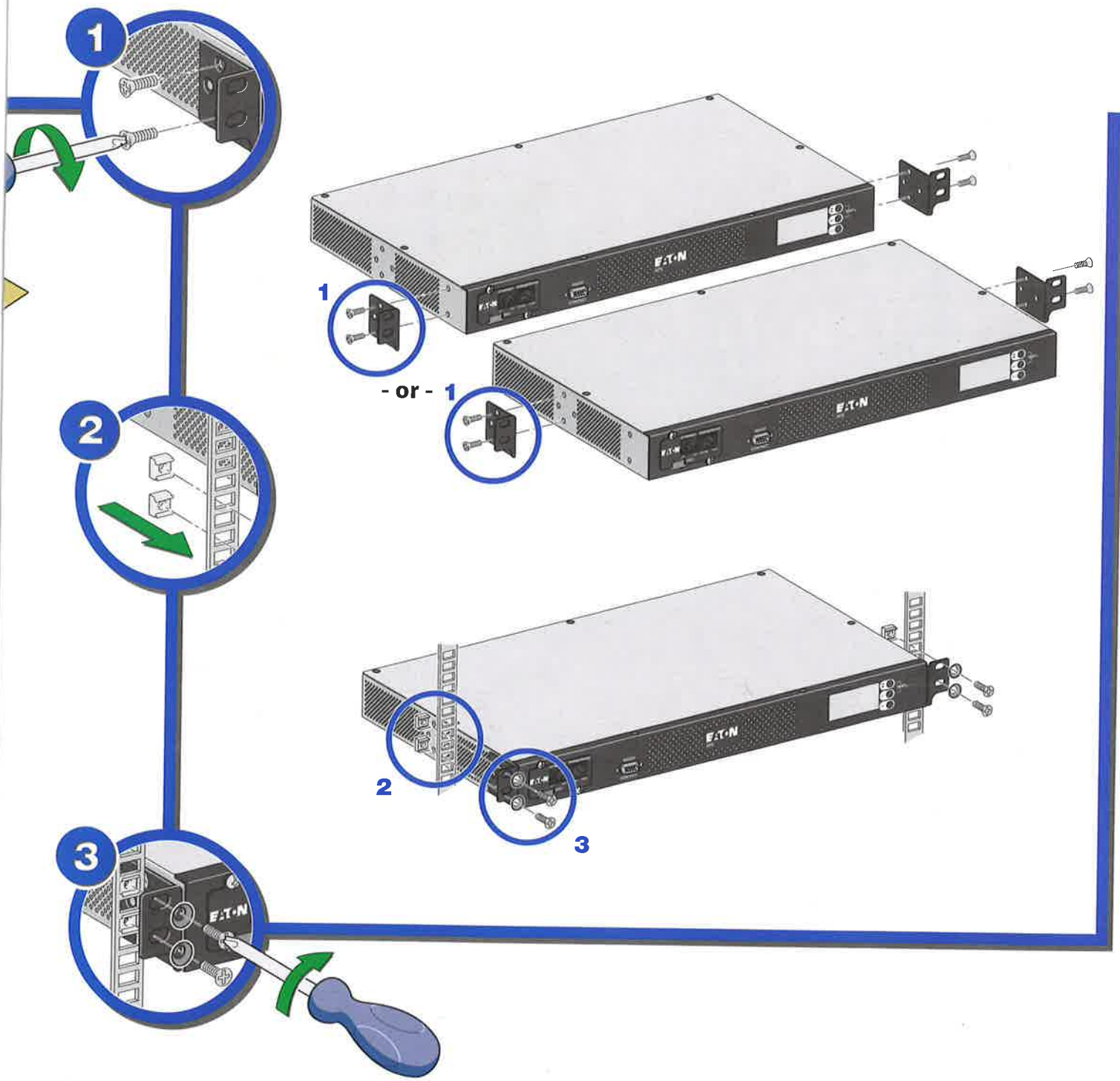
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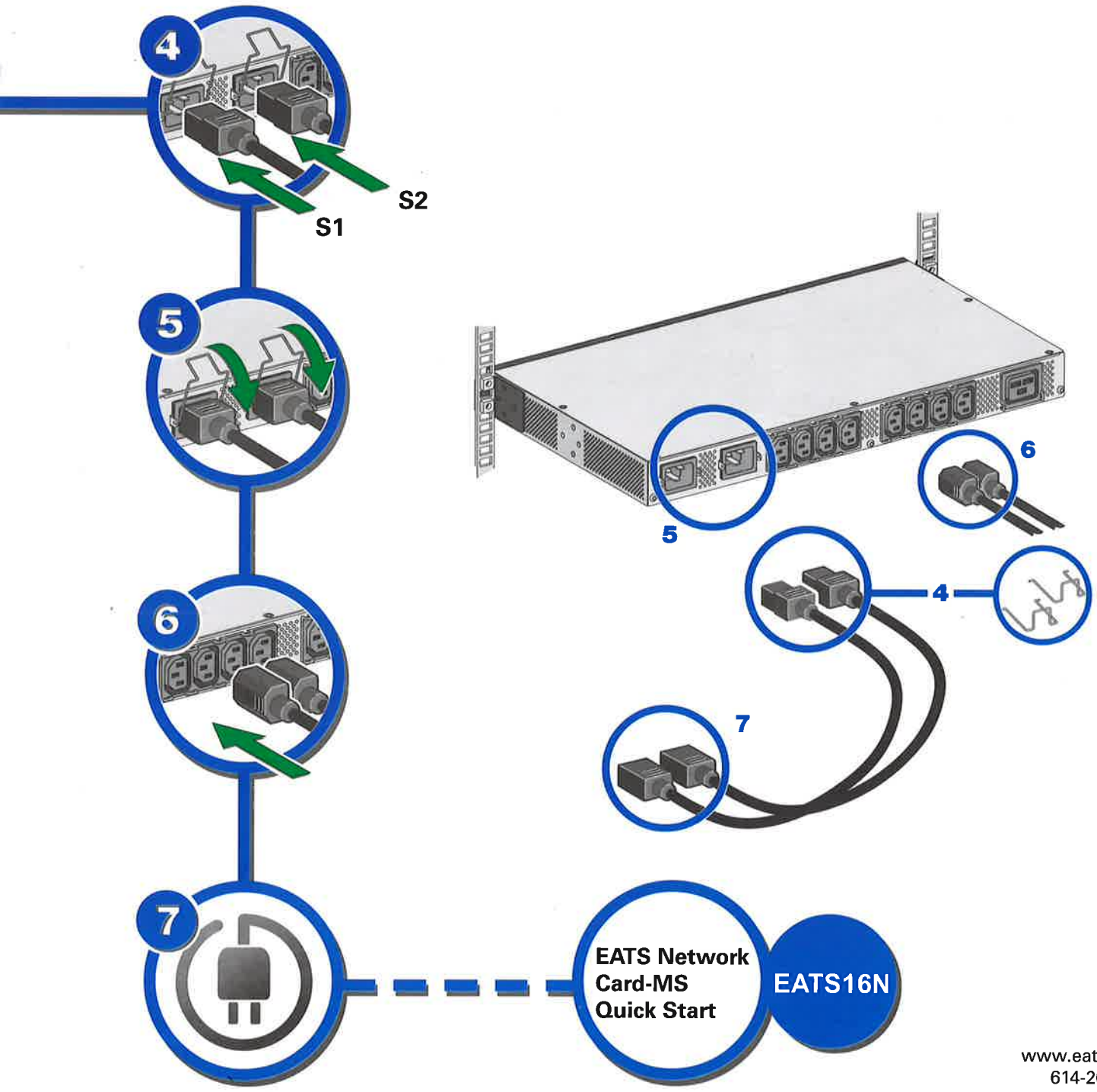

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Network Card-MS
Quick Start

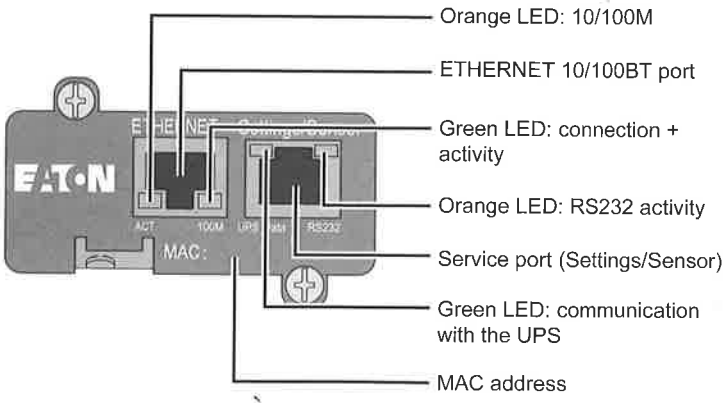
1. INTRODUCTION

The **Network Card-MS** card has SNMP and HTTP capabilities as well as monitoring through a Web browser interface . It connects to Ethernet network. In addition, an Environmental Monitoring Probe can be attached to obtain humidity, temperature, smoke alarm, and security information. With the card, the ATS has its own IP address and uses the local computer capabilities to:

- Supply web pages (http or https (SSL)) with information on status conditions and measurements/settings/alarms,
- Integrate an SNMP-based NMS such as hp OpenView, IBM Tivoli Netview and Computer Associates Unicenter.
- Communicate with IPM (Intelligent Power Manager).
- Send e-mail
- Monitor the Environment Sensor (EMP).

This manual provides all the information required to configure the **Network Card-MS**.
For more information on the supervision, control and configuration functions offered by the Network Management Card, see the user manual available at http://powerquality.eaton.com.

2. OVERVIEW



ETHERNET PORT

LED	Color	Status	Description
ACT	Green	OFF	Card not connected to network
		ON	Card connected to network, but no activity
		Flashing	Port is sending/receiving
100M	Orange	OFF	Port operating at 10 Mbits/s
		ON	Port operating at 100 Mbits/s

Service port (Settings/Sensor)

LED	Color	Status	Description
Data	Green	OFF	Card starting
		ON	Communicating with ATS
		Flashing	Normal operation, communication with ATS is operational
RS232	Orange	OFF	Configuration menu activated
		ON	Normal operation, configuration menu not activated
		Flashing	Communication with Environment Sensor (option)

3. INSTALLATION

- Use the provided MAC address label to identify the card.
- Connect the ETHERNET cable.
- Check the ETHERNET port indications.
- Wait until the Data LED flashes regularly (approx. three minutes), indicating that card start-up has terminated correctly.

Note: You can set the parameters via Service port even if the network is not connected. At connection, the card will restart keeping the settings.

4. IP SETTINGS

Once the card has started, proceed as indicated below:

- Connect the serial cable to card's service port and PC's COM port (shipped with the card)
- Use a terminal emulator such as PuTTY with these settings:

Bits per second	Data bits	Stop bits	Parity	Flow control
9600	8	1	None	None

"Echo typed characters locally" option: disabled

- Type admin.

The main configuration menu is displayed:

```
------------------------------------------------------------------------------
EATON NETWORK MANAGEMENT CARD
------------------------------------------------------------------------------
   1 : Reset
   2 : Network configuration
   3 : Set Login Password to Default
   4 : Return to Default Configuration
   0 : Exit
```

Your network is equipped with a BOOTP/DHCP server (default)

The card is configured by default with this service enabled. No manual configuration is required. The IP parameters are automatically collected by the card.

From the main configuration menu: (see above)

- Press the 2 key (Network configuration).
- Press the 1 key (Read Network settings).

The settings supplied by the server are displayed:

```
Network configuration :
   MAC address : 00:20:85:FD:1C:07
   Mode : DHCP
   IP address : xxx.xxx.xxx.18
   Subnet mask : 255.255.248.0
   Gateway : xxx.xxx.xxx.1
```

- Note the IP address.
- Press the 0 key (Exit).

Press the 0 key (Exit).

Your network is not equipped with a BOOTP/DHCP server (manual configuration is required)
To set the network configuration, use terminal emulation (see above)
From the main configuration menu:
- Press the 2 key (Network configuration).
- Press the 2 key (Modify Network settings).
- Follow the instructions and enter the IP parameters:

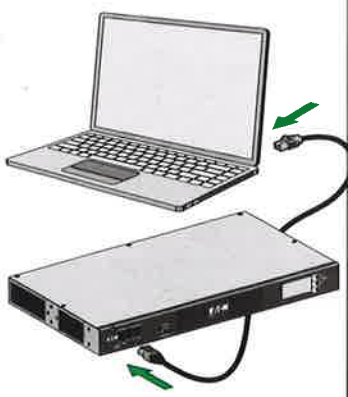
```
1 : Read Network settings
2 : Modify Network settings
3 : Set ethernet speed
0 : Exit

For each of the following questions, you can press "Return" to select the value
shown in braces, or you can enter a new value.
Should this target obtain IP settings from the network?[N]  N
Static IP address [192.168.1.2]?192.168.1.82
Subnet mask IP address [255.255.0.0]? 255.255.255.0
Gateway address IP address [0.0.0.0]? 192.168.1.1
Done
```

Wait until "Done" is displayed, indicating that the IP parameters have been saved.
- Press the 0 key (Exit).
- Press the 1 key (Reset).
- Press the 2 key (Restart).

The card restarts with the new IP settings (after approx. one minute).

5. ACCESS TO SUPERVISION

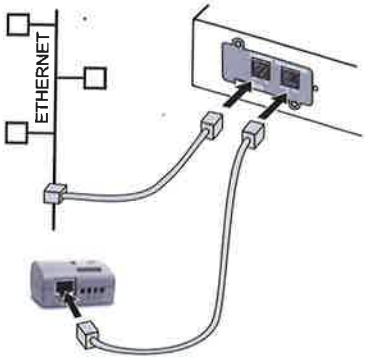
To check whether the Network Card-MS is operational after installation and IP settings, please proceed as follows.
- Run a browser
- Enter in the address bar: http://IP address/ (e.g. http://192.168.1.82)
- The home page is displayed



- Set the time by clicking the Settings >> Time command.
- Continue configuration via the sections in the Settings menu.

6. SENSOR CONNECTION (option)

The Environment sensor is a **Network Card-MS** option.



The sensor remotely monitors the ATS environment by periodically measuring the temperature and humidity, and checking the states of two external contacts. It can also send alarms (e-mail, SNMP trap) tripped by pre-set thresholds. Connection is made via the Service port (Settings/Sensor) on the **Network Card-MS**. The sensor is detected automatically. Configuration and supervision use a menu that may be accessed directly from the home page.

For more information, see the user manual of the **Network Card-MS**.