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LAN connection kit installation guide

250.7018, Edition 2, 2019

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ISO 9001 certified

Symbols

Explanations of symbols & labels on the device or in user manual:

The following symbols are used in this guide:

The danger sign warns about a hazard. It calls attention to a procedure or practice which, if not adhered to, could result in injury or loss of life.
Do not proceed beyond a danger sign until the indicated conditions are fully understood and met.

The warning sign denotes a hazard. It calls attention to a procedure or practice which, if not adhered to, could result in severe injury or damage or destruction of parts or all of the equipment. Do not proceed beyond a warning sign until the indicated conditions are fully understood and met.

The caution sign denotes a hazard. It calls attention to a procedure or practice which, if not adhered to, could result in damage or destruction of parts or all of the equipment. Do not proceed beyond a caution sign until the indicated conditions are fully understood and met.

The attention sign signals relevant information. Read this information, as it might be helpful.

Safety practices

It is assumed that the individual using this manual has sufficient training in the service of Personal Computers/installation of peripherals and is aware of the potential hazards including (but not limited to) electrical hazards. Make certain that you are familiar with the contents of this manual before working on the Personal Computer.

The following safety practices and protective measures are intended to ensure safe installation of the LAN-kit.

Electrical hazards

Never open a device when it is connected to an electrical power source! Removal of protective panels on the instrument can result in exposure to potentially dangerous voltages which may lead to **severe injury or loss of life**! The instrument may only be opened by authorized service engineers of the manufacturer or a company authorized by the manufacturer.

WARNING - RISK OF ELECTRIC CHOCK
DISCONNECT POWER BEFORE SERVICING

AVERTISSEMENT - RISQUE DE CHOC ELECTRIQUE
COUPER L'ALIMENTATION AVANT LA MAINTENANCE

Note: There is no need to remove panels during the installation of the LAN-kit.

Electrostatic hazards

Take precautions against electrostatic discharge during installation to prevent damage of the electronic parts

Spare parts and service availability

Manufacturer provides a variety of services to support her customers after warranty expiration. Repair service can be provided on a time and material basis. Contact your local supplier for servicing. Technical support and training can be provided by qualified chemists on both contractual or as-needed basis.

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CHAPTER 1

Introduction

The hardware of the ALEXYS® LC-EC systems (with DECADE Elite) communicates with the acquisition software on a computer through a local LAN network. Each individual instrument of the ALEXYS system needs to be connected to a LAN network switch box. Due to differences in regions, this switch box must be acquired locally and is not part of an ALEXYS shipment.

Make sure to acquire a PC and a LAN network switch box well before an ALEXYS installation. A few options for LAN switch boxes are listed in the 'PC requirements' document (pn. 195_7000).

Kit content

The LAN connection kit 250.0180 contains this manual with instructions and all additional cables to set up the communication with the PC. Most PC's are equipped with only one LAN-port, and as this will be used to connect with the ALEXYS system, an additional USB-LAN adapter is provided with this kit to be able to stay connected to the net.

Do not use the USB LAN adapter provided in the kit to make the connections with the ALEXYS system!

The following parts are supplied in the LAN connection kit:

- Instructions manual
- 5 x LAN (UTP) cable, 1.5m
- 1 x USB3.0 hub with LAN adapter

A LAN switch box is not part of the kit! It must be acquired locally.

C H A P T E R 2

Preparation

Unpacking

Inspect the transport box for possible damage as it arrives. Immediately inform the transport company in case of damage, otherwise she may not accept any responsibility.
Carefully unpack the items and inspect them for completeness and possible damage. Contact your supplier in case of damage or if not all marked items on the checklist are included.

Optional: set-up the alternative internet connection

In case a second free LAN-port (on-board or PCIe) is available, the following 4 steps can be skipped, and the USB hub with LAN adapter will not be used.

Do not use the USB LAN adapter to make the connection with the ALEXYS system! This can result in loss of communication with the ALEXYS system.

In case the computer is connected to internet/intranet through the only LAN port on the computer, the provided USB3.0 hub with LAN adapter can be used to free that LAN port to use it for communication with the ALEXYS.

1. Connect the power adapter to the USB3.0 hub-LAN adapter and insert the USB cable to a free USB3.0 port on the computer.
2. If the device does not auto-install, use the CD and instructions provided with the hub.
3. Disconnect the internet/intranet cable from the computer and connect it to the LAN port of the USB hub.
4. Doublecheck that the internet/intranet is functioning by opening a webpage.

CHAPTER 3

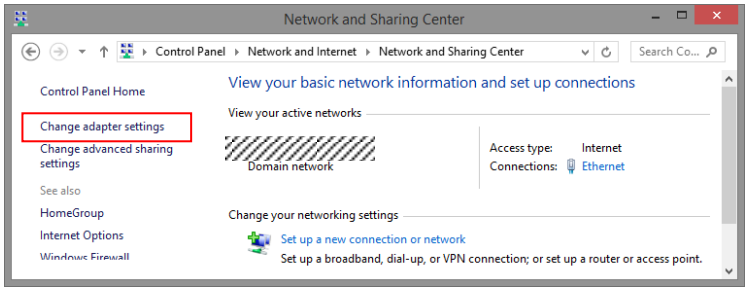
Installation

Adjust the IP address of the LAN-port on the computer

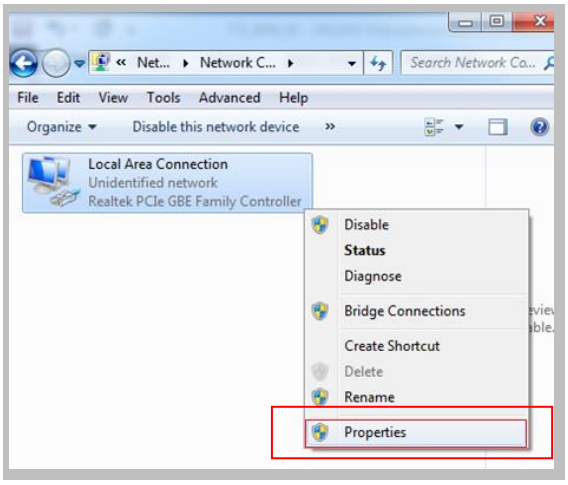
Each instrument of the ALEXYS system has a fixed IP address starting with numbers 192.168.5. To enable communication between the computer and the instruments through the switch, the IP address of the LAN port should first be set to the same first set of numbers.

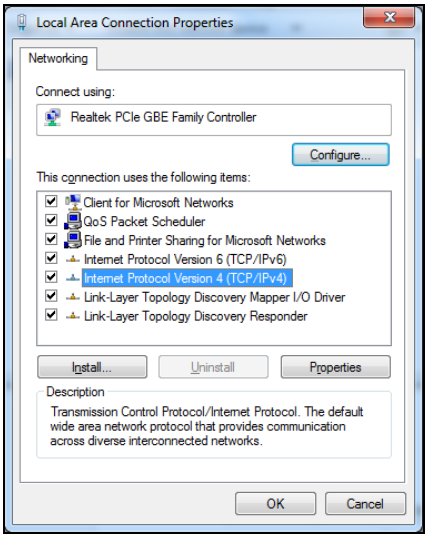
Note: make sure to make the adjustments to the correct (PCI, PCI Express or PCI-X) LAN port, not the USB-LAN adapter port!

1. Open the window ‘Network and Sharing Center’ (accessible through the Control Panel/Network and Internet or by right-mouse-button clicking on the Network icon in the taskbar)
2. Click on 'Change adapter settings' listed at the left in the window.

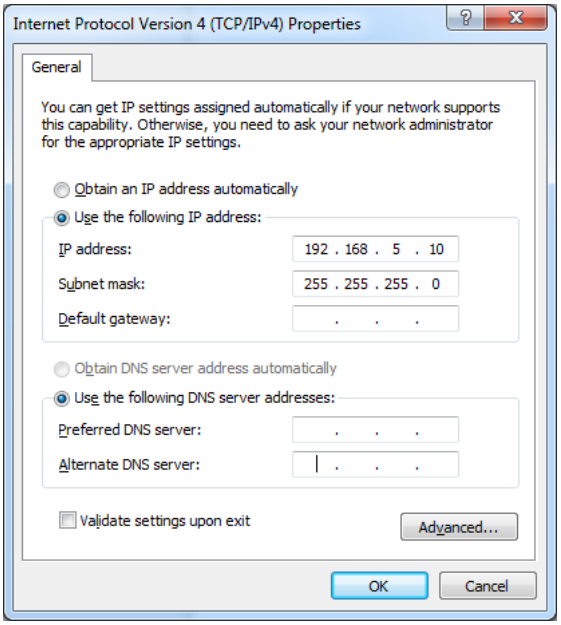


3. Right click on the Local Area Connection icon of the LAN card in your PC and click to open its Properties window.





4. Double click in the menu on 'Internet Protocol Version 4 (TCP/IPv4)' to open its properties window.
5. Set the properties as in the screendump below
   - IP address: **192.168.5.10**
   - Subnet mask: 255.255.255.0
   - Gateway and DNS fields empty



6. Close the menu(s) by clicking the 'OK' buttons.

The network IP address of the LAN port is now configured for communication with the ALEXYS instruments.

Install the switch box

The switch box extends the number of LAN-ports for the ALEXYS to 4. To install the switch, do the following:

1. Connect the switch to a power source with the power adapter.
2. The lights should turn on
3. Use one of the provided LAN (UTP) cables from the kit to connect the switch box to the free (PCI, PCI Express or PCI-X) LAN port that was just configured to IP address 192.268.5.10.

Connect the instruments to the switch box

Use the LAN (UTP) cables provided in the kit to connect each instrument of the ALEXYs system to one of the ports of the switch box.

Do not use any of the LAN cables from the ship-kit of the individual instruments, as some have different and incompatible features.

The communication hardware between instruments and control software is now in place and ready for use.