

Installation of Net Controller

Connect RS232, network and power supply.

The default IP address for Net Controller is 0.0.0.0.

Configuration of Net Controller is possible by the serial port with NCsetup or over network with web browser.

Configuration via serial port with NCsetup

To configure via the serial port-2 you must use the program NCsetup, installation description below. Note, If serial port-2 is used for communication, make a long reset with temporary load of factory settings.

With the Set button two different resets can be done (by a hole in the case) :

- Short reset – Press the button for a short time. Ordinary reset keeping the present parameters.
- Long reset - Holding button for at least 5 seconds. Makes a reset with temporary load of factory settings.

Factory settings makes it possible to go back if anything goes wrong.

Assign IP address via serial port

To assign Net Controller an IP address, use NCsetup and change the IP address parameter.

Configuration over network with web browser

To assign Net Controller an IP address, use the ARP command and a web browser. The ARP command is started from Dos/Command prompt for Windows.

1. Set a static IP address and a static Net Controller address, by using the ARP command. Example with IP address 192.168.0.1 and Net Controller with address 00-02-B8-00-00-01
ARP -S 192.168.0.1 00-02-B8-00-00-01
2. Start the web browser and use the IP address in the address field to address to Net Controller
http://192.168.0.1
The start page is shown
3. Set the password **control** in the password field and click **Ok**
The menu page is shown
4. Select **IP Settings** on the menu page
The address page is shown
5. Check IP address and click **Ok**
The response text **Parameters changed** is shown
6. Select **Store to flash memory** on the menu
The store page is shown
7. Set **yes** in the confirm field and click **Ok**
The response text **Parameters stored** is shown

Net Controller has assigned an IP address.
Change any other necessary parameters.

Net Controller NC8900



RJ45 connector for serial port (Net Controller is DCE)

Serial port-1 RS232

1. GND
2. >RD
3. <TD
4. >DSR
5. >CTS
6. <RTS

Serial port-2 RS232

7. GND
8. >RD
9. <TD

Serial port-1 RS232 Modem (Serial port-2 not available)

1. GND
2. >RD
3. <TD
4. >DSR
5. >CTS
6. <RTS
8. >DCD (Modem)
9. <DTR (Modem)

Serial port-1 RS485 4-wire/2-wire (Serial port-2 available)

2. T+
3. R+/T+
5. T-
6. R-/T-

Power supply

Screw term. block	AC	DC
10 AC/DC-	0V	0V
11 AC/DC+	12/24V AC	12/24/48V DC
12 P-GND	Prot. ground	Prot. ground

Installation CD

Net Controller can be configured via the serial port by using NCsetup. A more detailed description of the program NCsetup can be found within the User manual on the Installation CD, it also contains other documentation in formatted in PDF.

Manual installation of NCsetup in Windows:

1. Insert the installation CD in the CD-ROM reader.
2. From Start meny select run and put in D:\NCsetup\setup.exe, click OK.
3. Select open.
4. Follow the installation instructions on the screen and then run NCsetup from the installation folder.
5. Connect the Net Controller serial port-2 to com1 on PC, see connections earlier page.

Installation av NCsetup med hjälp av webbgränssnitt:

1. Insert the installation CD in the CD-ROM drive and the CD should automatically start.
2. Wait for the start meny to show up in a browser window.
3. Click Install under NCsetup.
4. Select open.
6. Follow the installation instructions on the screen and then run NCsetup from the installation folder.
5. Connect the Net Controller serial port-2 to com1 on PC, see connections earlier page.

Note, If serial port-2 is used for communication, make a long reset with temporary load of factory settings. Hold Set button for at least 5 seconds.



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Technical data

Microprocessor controlled access bridge with 16 bits Intel 80C186EB processor
Flash memory 512 KB for easy software update
Data memory 256 KB SRAM for stack and buffers

Low power architecture with 5V logic

Ethernet IEEE 802.3, 10Mbps, 10Base-T, RJ45 connector

Watchdog for surveillance and restart on errors

Power indicator P with green LED to indicate power and program has started

Traffic indicator T with yellow LED to indicate network communication (TD/RD)

Two serial indicators 1 and 2 with yellow LED to indicate communication on respective serial port

TCP/IP protocol with support for protocols ARP, IP, ICMP, TCP and HTTP

Serial port-1 RS232/RS422/RS485, flow control and modem signals

Serial port-2 RS232

Selectable data format and speed 600-19200 bps

Serial server with or without serial protocol

Screw terminal block

Power supply 12/24V AC or 12/24/48V DC, max 150mA

Screw terminal block

Physical dimensions (mm) 23w x 75h x 110d, Weight 118g

Ambient temperature 5-50°C/operating, -40-80°C/storage

Relative humidity 5-95% none-condensing

Mounted on DIN rail

CE approved, conforms to the directive for electromagnetic compatibility according to EMC