

IP-Port Getting started



1 Preparations

For manual IP setting, the IP settings must be made over the serial port. The other settings can be made with the web browser.

Note, the values used in this document for the IP settings (IP 192.168.0.1, MAC 00-02-b8-00-02-01) are only examples. The real IP address is given from network administrator and the MAC address is factory labelled on each IP-Port.

The reset button **R** has two functions: Short pressing gives a normal Reset (restart), long pressing (3 s) activates Configuration mode.

1. Check with the network administrator if automatic (DHCP) or manual IP setting shall be used. (Automatic IP setting is set as default in IP-Port, IP address is 0.0.0.0)
2. If manual IP setting, ask for the IP settings from the network administrator, such as IP address, netmask and default gateway.

2 Connections

1. Connect the network port **TP** to the network with a TP cable.
2. Connect **POWER** AC/DC to 12-24V AC/DC power.
3. Check that LED **P** green is blinking (Power and Started).
4. Check that LED **L/A** green are on (Valid link and activity for the network).

3 IP setting automatic (DHCP)

At automatic IP setting, the network has a DHCP server where the settings are provided automatically.

1. Contact the network administrator to assign the IP address for the IP-Port to the DHCP server with the MAC address.

4 IP setting manual

At manual IP setting, the settings manual sets via serial port with values from network administrator.

In this case the built in commando language is used. If only the command is given, current value is displayed.

Changed settings must be stored by the command **>store**

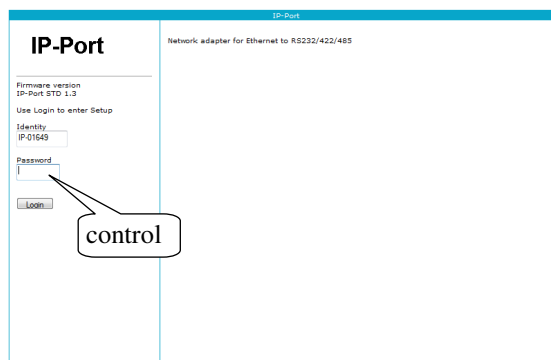
1. Connect a Terminal (PC) to serial port **S1** (run NCconfig or a terminal program).

2. Activate Configuration mode (press **R** button on IP-Port for 3 sec). The following text is displayed:
IP-Port command
Version: IP-Port STD 1.3
IP Address: 0.0.0.0
3. Set IP address with the **ip** command:
>ip 192.168.0.1
4. Set netmask with the **mask** command:
>mask 255.255.255.0
5. Set default gateway with the **gw** command:
>gw 255.255.255.25
6. Store changes to Flash memory with the **store** command:
>store (The text *Warning, Store to Flash? Confirm with yes* is displayed)
7. Type **yes** to confirm.
>yes (The text *Store to Flash and Restart* is displayed and IP-Port restarts)

Check other settings.

1. Start a web browser with the assigned IP address and login with Password **control**.
2. Check and modify other settings if necessary.
3. If any settings are changed, don't forget to store to Flash memory.

Web browser

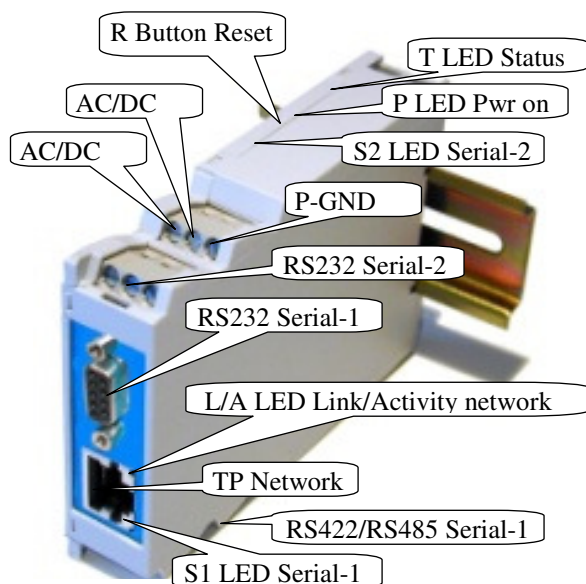


5 Verify installation

1. Started and has power? LED **P** green is blinking.
2. Network link detected? LED **L/A** green is on.
3. Valid IP setting? Run **ping** command:
>**ping 192.168.0.1** (example of assigned IP address)
4. Communication via the network to serial port(s)?
Strap pin 3,2 (TD, RD) on the serial port (for loopback).
Run **Telnet**. Make sure to enter the TCP port number that the serial port is assigned to: >**telnet 192.168.0.1 10001** (example of assigned IP address and TCP port number).
Verify that it connects.
5. Send/receive data by pressing a character key?
The character is sent via the network to the serial port and back.
Verify network communication: LED **L/A** green is blinking.
Verify serial communication: LED **S1** yellow is blinking.

6 IP-Port overview

R-Button Reset, button via ventilation slits on the top.
 AC/DC-Connection power, Terminal on the top.
 P-GND-Connection protected ground, Terminal on the top.
 TP-Connection, RJ45-Connector on the front.
 RS232-Connection Serie-1, DB9F-connector on the front.
 RS232-Connection Serie-2, Terminal on the top.
 RS422/RS485-Connection, Terminal on the bottom.
 P-Indicator green, LED via ventilation slits on the top.
 L/A-Indicator green Network, LED RJ45 conn. on the front.
 S1-Indicator yellow Serie-1, LED RJ45 conn. on the front.
 S2-Indicator yellow Serie-2, LED via vent. slits on the top.
 T-Indicator yellow Serie-2, LED via vent. slits on the top.



Connections and Indicators

Reset button R

Short pressing, gives normal Reset
 Long pressing (3 s), activates command language via serial-1 port

Indicators P L/A S1 S2 T

P Green LED, Power and started
L/A Green LED RJ45, Link and network communications
S1 Yellow LED RJ45, serial-1 communications
S2 Yellow LED, serial-2 communications
T Yellow LED, IP-Port running

Network port TP

RJ45 connector for Fast Ethernet 10/100 Mbps TP

Serial port S1 RS232 Modem

DB9F connector for RS232 Modem (DCE)

- | | | | |
|----|-----|----|---------------------|
| 1. | DCD | Ut | Data Carrier |
| 2. | RD | Ut | Receive Data |
| 3. | TD | In | Transmit Data |
| 4. | DTR | In | Data Terminal Ready |
| 5. | GND | | Signal ground |
| 6. | DSR | Ut | Data Set Ready |
| 7. | RTS | In | Request To Send |
| 8. | CTS | Ut | Clear To Send |
| 9. | RI | Ut | Ring |

Serial port S2 RS232

Terminal-3 connector for RS232 (DTE)

- | | | | |
|----|-----|----|---------------|
| 1. | GND | | Signal ground |
| 2. | RD | In | Receive Data |
| 3. | TD | Ut | Transmit Data |

Power POWER

Terminal-3 connector for power

- | | | | |
|----|--------|-----------|------------------|
| 4. | AC/DC+ | 12/24V AC | +12/24V DC |
| 5. | AC/DC- | 12/24V AC | 0V DC |
| 6. | P-GND | | Protected ground |

Serial port S1 RS422/RS485

Terminal-6 connectors for RS422/RS485

- | | | | |
|----|-------|--|---------------|
| 7. | V- | | Gnd |
| 8. | R+/T+ | | 4-wire/2-wire |
| 9. | R-/T- | | 4-wire/2-wire |

- | | | | |
|-----|----|--|--------|
| 10. | V+ | | +5V |
| 11. | T+ | | 4-wire |
| 12. | T- | | 4-wire |

IP-Port Network adapter

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