

SX:NETLINK(ES3)

A QUICKSTART

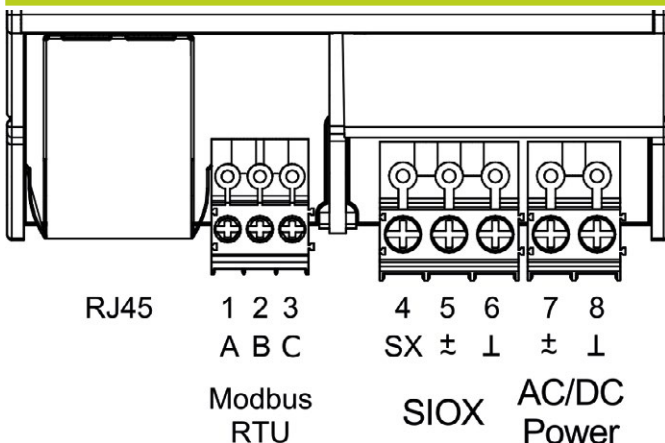
INTRODUCTION

The 3rd generation SX:NETLINK does more than just controlling SIOX modules via Modbus TCP. Now you can also control modbus slaves with Modbus RTU. Modbus RTU can be used to control SIOX modules too. There is now also better LED indication, easily accessible buttons, and many improvements to the software. This document only covers the main points as a connection and installation guide, alongside some background information. For more information, see the module manual.

FIRST THINGS FIRST

This first step in a setup is to connect to the module and configure its IP address. Start by connecting 24V AC or DC to terminals 7-8. Next, connect the module to a PC with a standard network cable (Ethernet cable via the RJ45 port).

CONNECTION



IP ADDRESS AND PROGRAM INSTALLATION

Start by setting the IP address for the computer to 192.168.0.XXX. The first three groups of the IP address for the PC and for NETLINK must be the same. Next, check that the module can be contacted by pinging the address 192.168.0.234 (the default address of the module). Once everything is running normally, you can connect to the DFF form in our Smoke Manager software (see screenshot). If you have not already installed our software on the computer, you are recommended to download the download package from our web site siox.se. On the home page, go to the "Smoke Control System" menu and select "Download package". The ZIP file contains everything you need to install and troubleshoot our system. The folder called "2. Software" contains "SIOX Smoke Manager" – run and install the program.

SX_NETLINK (ES3) Setup 3.20

ES3 ver 1.32 ? ☐ **RESTART** ? Disclaimer ?

☐ EEPROM Write Enable ? Move mouse pointer to ? for help

NET **SIOX** **MOD.RTU (Master)** **MOD.RTU (Slave)** **RTC**

Restart unit to make changes take effect

NETWORK

? IP Address: 192 168 0 234

? Subnet Mask: 255 255 255 0

? Def. Gateway: 0 0 0 0

? TCP Port No.: 1024 (Used by SioxNet)

NOTE
This doesn't change port for Modbus TCP.
Modbus TCP always uses port 502.

NOTE
Before making any changes, check the "EEPROM Write Enable" checkbox.
When finished, restart the module by clicking "Restart" in the top.

SMOKE MANAGER

Run the SIOX Smoke Manager installation file contained in the Software folder and install the program. Once installed, you can open Smoke Manager and connect to your Netlink using the IP address 192.168.0.234.

When the connection is established, you can click on "Configure (DFF)" to open the DFF form for Netlink.

SETTINGS

In the DFF form you can change the settings shown in each tab. Note that changes can only be made if the "EEPROM Write Enable" checkbox is selected.

Select the "RESTART" checkbox at the top when you have finished changing the settings. If you change the IP address, the form will lose contact with the module. In this situation, close the form, click on "Disconnect" in Smoke Manager and use the new IP address to reconnect.

HUNT MODE

A feature called "Hunt Mode" is available if you do not know the module address or you have lost contact with the module for some other reason. To activate it, keep both the buttons on the module pressed for 5 seconds. All LEDs start flashing quickly. The module is given the same IP address as the computer but with 234 at the end: XXX.XXX.XXX.234. This happens when communication takes place with this address. See the DFF form above for an example. The LEDs stop flashing to confirm that the module has changed to the address.

FLASHING SEQUENCES

NETLINK has been improved with new LEDs to indicate the status more clearly. The LEDs are each labelled with their main function, but they are also used to indicate the status in many other ways. See below for all flashing sequences.

	PWR	Power supply connected
	ETH	Ethernet link
	ETH	Ethernet activity
	SIOX	No SIOX communication
	SIOX	SIOX communication
	SIOX	(Off) SIOX short circuit to GO
	SIOX	Duplicate address detected
	MOD	Modbus communication
	PWR SIOX	SIOX short circuit to DC +
	PWR SIOX	50/60 Hz on SIOX



WATCHDOG

After the addresses of all damper modules (UNO and DUO) have been set, the watchdog must be configured. This used to be a time-consuming process, but an integrated function in NETLINK makes it quick and easy. The "SIOX" tab in the DFF form for NETLINK contains the group "SET WATCHDOG IN UNO/DUO". Enter a timeout and type code 46 in the box to set the watchdog timeout in all damper modules connected to the SIOX bus. You can follow the progress at the bottom of the screen. See the figure below for an overview of the NETLINK DFF form.

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ADDRESS ? **63**

BAUD RATE ?

- ☐ 300
- ☐ 600
- ☐ 1200
- ☐ 2400
- ☒ 4800
- ☐ 9600
- ☐ 19200

Standard value: 4800

BUS CURRENT ?

- ☐ 0 mA
- ☐ 25 mA
- ☐ 50 mA
- ☐ 75 mA
- ☒ 100 mA

Standard value: 100

ERROR STATUS - SIOX BUS

- ☐ SIOX shorted to +24 VDC
- ☐ SIOX shorted to ground
- ☐ SIOX shorted to 24 VAC
- ☐ Double addressing on bus

OTHER SETTINGS

Additional timeout **0** ?

SIOX repeats **3** ?

☐ SD1 as DI at addr. **59** ?

☐ DI1 ☐ DI2 ☐ DI3 ☐ DI4

SET WATCHDOG IN UNO/DUO

Watchdog timeout **0** s ?

Start by writing code 46 in this box **0** ?

Progress Group Address

0 **0**

SUMMARY

This document only covers connecting, linking to DFF, setting up the IP address, hunt mode, flashing sequence information and setting the watchdog in all damper modules. For more detailed information see the NETLINK manual in the download package or scan the QR code here (clickable too).

