

NK8237 Modbus Gateway für FS20/FS720 Brandmeldesysteme

• Montage

Anwendung

Der NK8237 wird als Gateway zwischen Sinteso FS20 / Ceberus PRO FS720 Brandmeldesystemen und Modbus Geräten eingesetzt. Modbus Geräte könne via LAN oder über eine serielle Verbindung angeschlossen werden.

NK8237 ermöglicht eine bidirektionale Kommunikation über Modbus RTU (NK8237 ist Modbus slave) oder Modbus TCP/IP (NK8237 ist Modbus server) mit FS20/FS720 Brandmeldesystemen

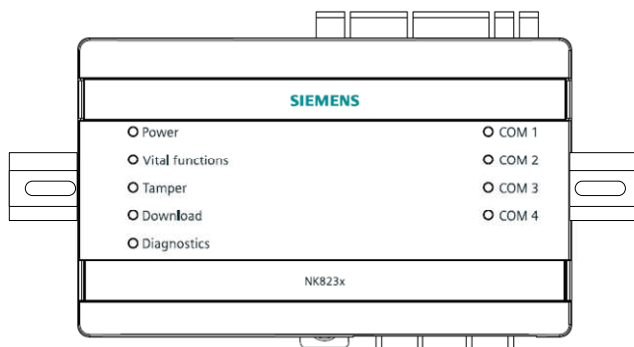
Montage

- Der NK8237 kann in einem Zentralengehäuse, Schaltschrank oder dem NE8001 Metallgehäuse eingebaut werden:
 - NK8237 auf DIN-Schiene montieren
 - Ohne Plastikgehäuse auf NK8011-A1 Montageplatte montiert in Kartenhalter



Gefahr von Personen- und Sachschäden
Beachten Sie die folgenden Sicherheitshinweise:

- Die Installation von NK8237 Ethernet Ports ist durch eine Fachkraft durchzuführen.
- Vor dem Öffnen einer Station ist diese ausser Betrieb zu setzen und die Netzzuführung zu unterbrechen.
- Das Gerät ist nur stromlos, wenn es **vom Netz und von den Batterien getrennt ist.**



NK8237 Modbus Gateway for FS20/FS720 fire detection systems

• Installation

Application

The NK8237 is used as gateway between Sinteso FS20 / Cerberus PRO FS720 fire detection systems and Modbus head-end/automation systems connected via LAN or over a serial line.

It provides for bi-directional Modbus RTU (slave) and TCP/IP (server) connectivity for FS20/FS720 fire detection systems.

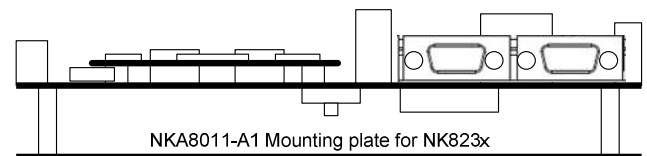
Installation

- The NK8237 is usually installed in the housings of the safety devices or in the NE8001 Housing:
 - Install NK8237 on DIN-rail
 - Without plastic housing mounted on NK8011-A1, Mounting plate in card holders



Danger of damage to persons and property
Please observe the following safety instructions:

- NK8237 gateway must always be installed by a trained specialist.
- Before a station is opened, it must be put out of operation, and the mains supply must be interrupted.
- The device is current-free **after it has been disconnected from the mains and the batteries.**



Konfiguration

Der NK8237 muss mit dem Composer Konfigurations-Tool konfiguriert werden.
 Die Konfigurationsprozedur ist in der NK8237 technischen Dokumentation beschrieben (A6V10316241).

Anschluss

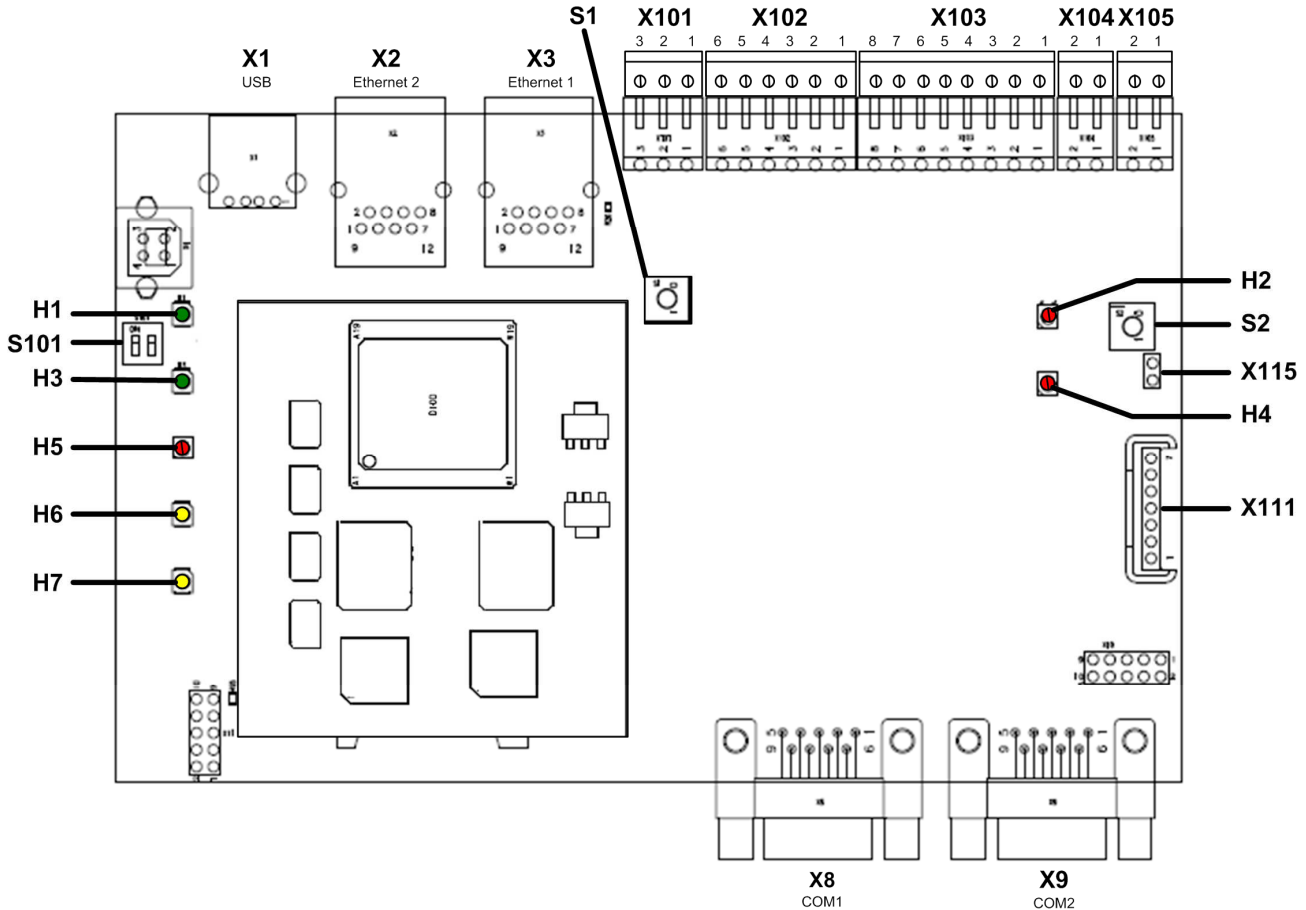
Gemäss NK8237 technischer Dokumentation (A6V10316241).

Configuration

The NK8237 Ethernet port needs to be configured with the Composer configuration tool.
 Configuration procedure according to NK8237 technical documentation (A6V10316241).

Connection

According to NK8237 technical documentation (A6V10316241).



X1: USB (currently not supported in software)

X2: Ethernet 2

X3: Ethernet 1

X2/X3 LED's on RJ-45 connectors	
Yellow	if on, a 100 Mbps link is active
Green	flashing when data is received or transmitted

Cat.5 UTP cabling is best suited.

X101: On board digital output (communication fault)

X101 – relay output	
Pin	Assignment
1	Common
2	NO (normally open)
3	NC (normally closed)

X102: On board digital inputs

X102 – digital inputs for external power supply supervision	
Pin	Assignment
1	Input 1 (Mains failure)
2	Input 2 (Battery fault)
3	Input 3 (Power supply fault)
4	+ Val
5	- Val

X103: Power supply connector

X103 - Power and LON connections	
Pin	Assignment
1	+ PWR 1
2	Earth
3	- PWR 1
4	Not used
5	Not used
6	+ PWR 2
7	Earth
8	- PWR 2

X104: COM1 RS-485

X104 - COM1 RS-485 connections	
Pin	Assignment
1	+ RS-485
2	- RS-485

X105: COM2 RS-485

X105 – COM2 RS-485 connections	
Pin	Assignment
1	+ RS-485
2	- RS-485

X8: COM 1 / X9: COM 2: RS232 connectors (9pin D-Sub connectors, female type)

Pin	Assignment
1	CD
2	RXD
3	TXD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	RI

X11: I²C interface: connection to power supply supervision module (DF8090)

S101: Internal DIP switches: Default mode/network access

Internal switch	Functions
DIP switch 1	If DIP-switch 1 is ON, an FTP connection occurs by default on the Ethernet 1 at the default IP address 192.168.9.41.
DIP switch 2	If DIP-switch 2 is ON, an FTP connection occurs by default on the Ethernet 2 at the default IP address 192.168.10.41.

S1: Reset

S2: Tamper switch

X115: Jumper to disable the tamper switch S2

LEDs:

	Communication LED (right)	Functions	
H2	COM1	Status COM1	Red: RX
H4	COM2	Status COM2	Green: TX

	Diagnostic LED (left)	Functions
H1	Power (LED green)	Power (hardware – controlled)
H3	Vital functions (LED green)	Software vitality (blinking)
H5	Tamper (LED bicolour)	Unit tamper: – Red means tamper alarm (hardware controlled) – Green means tamper disabled (from management station)
H6	Download (LED red)	NK823x network diagnostics: – Off = Status OK – Blinking (1 flash) = Missing identification from NS8210 – Blinking (2 flashes) = Not used – Blinking (3 flashes) = Default mode (→ switch settings in section): FTP channel open – On = Critical/hardware fault
H7	Diagnostic (LED yellow)	– NK823x internal interface diagnostics: – Off = Status OK – Blinking (fast) = booting operating system after restart – Blinking (1 flash) = Missing or insufficient license – Blinking (2 flashes) = Trouble with the I2C bus to I/O modules – Blinking (3 flashes) = n/a – Blinking (4 flashes) = Trouble with the serial/network interface – Blinking (5 flashes) = Trouble with DLL or RCLOCK file(s) – Blinking (6 flashes) = Modbus GW trouble – On = Critical/hardware fault

Technische Daten

Technical data

Betriebsspannung	Supply voltage	10 ... 33 VDC
Leistungsaufnahme	Power consumption	max. 5 W
Abmessungen (B x H x T)	Dimensions (W x H x D)	180 x 108* x 80 * Excluding connectors
Lagertemperatur	Storage temperature	-20 ... +60 °C
Betriebstemperatur	Operating temperature	0 ... +50 °C
Feuchte (keine Betauung erlaubt)	Relative humidity (no condensation)	<=95%

Bestellangaben

Details for ordering

S54461-C7-A1	NK8237.2	Modbus Gateway	Modbus Gateway
		Zubehör	Accessories
A6E600066	NE8001	Gehäuse für NK82xx (mit Stromversorgung)	Housing for NK82xx (incl. Power supply)
S54461-B4-A1	NKA8011-A1	Montageplatte für NK823x	Mounting plate for NK823x

Siemens Switzerland Ltd
Industry Sector
Building Technologies Division
International Headquarters
Fire Safety & Security Products
Gubelstrasse 22
CH-6301 Zug

Tel. +41 41 724 24 24

www.siemens.com/buildingtechnologies

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