Product description

NCE – Gateway [CAN-Ethernet/CAN-Modbus]

NCE version A02, B02, C03

Introduction NCE

NCE is used in Lindinvent´s system for climate controll as a gateway between a communication loop (CAN) and a server with the system software LINDINTELL. For smaller systems that do not have Lindintell, NCE can be used instead as a bridge between communication loops (CAN) and Modbus.

Function

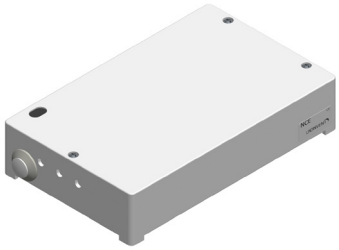
Via each NCE, up to 2 communication loops (CAN) are connected to the superior system. A maximum of 200 nodes can be connected to the respective NCE with up to 100 nodes per loop. System designs with several NCEs allow larger systems to be installed. Nodes that work together are connected to the same physical loop.

User interface

Settings are changed in NCE via an IR connection with the handheld user panel DHP and the application FakeTerminal.

System solution with LINDINTELL

Communication with NCE is set up over TCP/IP to a server with the LINDINTELL software.



NCE - Gateway CAN-Ethernet OR CAN-Modbus.

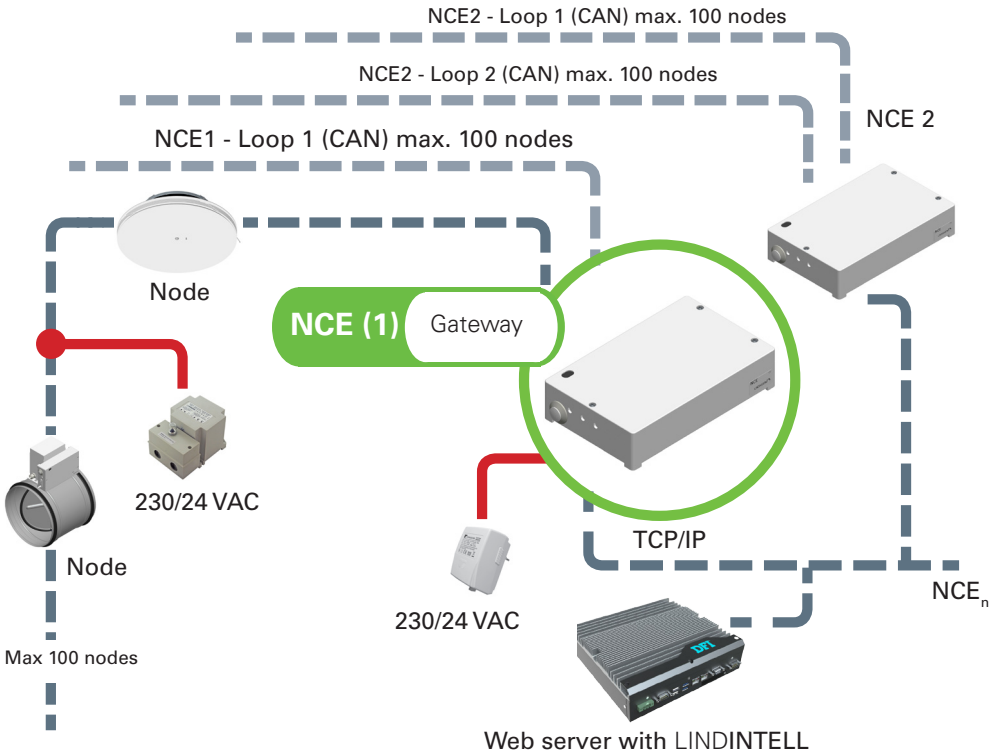
System solution without LINDINTELL

Communication with NCE is set up over Modbus RTU or Modbus TCP. When NCE is used as a Modbus bridge, it is recommended mirroring a maximum of 100 nodes per NCE bridge.

LINDINTELL/LINDINSPECT

LINDINTELL is a system program installed on a central server. LINDINTELL has, among other things, functions for optimisation, oversteering and free programming.

LINDINSPECT is a Web interface that has been developed to be used with LINDINTELL.



System sketch with NCE: Each included NCE acts as a gateway between the communication loop of nodes and the common server with LINDINTELL system software.

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Technical specifications NCE

General

Dimension
200 x 125 x 45 mm (LxWxH)

Weight
Net weight 0.35 kg

Material
Polystyrene encapsulation

Colour
RAL 9003

IP class
Encapsulation complies with IP53

Temperature limits
Operation: 0°C to 40°C; <85% RF
Storage: -20°C to 50°C; <90% RF

Electrical system

Supply voltage
24 VAC

Output
5 W

CE marking
Complies with EMC and the Low Voltage Directive

Connections

Input signals
3 x 0-10 VDC
3 x digital

Output signals
8 x 0-10 VDC

Communication
2 x CAN loops
1 x Ethernet port
1 x serial port, RS-232
1 x Serial port, RS-485 (From NCE version B02 with software NCE2.1.0)

Additional product documentation

Table 1: Additional documentation for NCE can be obtained via links on the product's website under Products at www.lindinvent.se

Document	Available	Not available	Comments
Installation Instruction		●	See external connection diagram
Start-up instruction	●		Settings for network connection
Maintenance instruction		●	Regarded as maintenance-free
External connection diagram	●		Instructions for connection
Environmental product declaration	●		Assessed by Byggvarubedömningen and Sundahus
User information		●	Not applicable
Modbus list		●	Not applicable
AMA text		●	None

Product documentation can be downloaded via www.lindinvent.se/produkter/

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Lindinvent – Smarter indoor climate. Greener buildings.

The company offers products and systems for controlling ventilation, lighting, solar shading and local utilization. Equipment and climate solutions are being developed for offices, schools, hospitals, laboratories and similar working environments. Lindinvent's systems work together to provide high indoor comfort and the lowest possible energy use.