

NetNode 42

Ethernet

SCL 3

SCL 2

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NetNode - the Ethernet-Gateway to the Field level

- Up to three serial interfaces
- Display and Cursorkeys for local Parametrisation and Diagnostic or remote over TCP/IP
- Diagnostic interface for configuration and start-up
- Replaceable configuration memory
- Graphical programming of application specific functions
- Implementation of own transmission protocols

Ethernet
TCP/IP Protokoll

Betriebsebene
Factory level

Leitebene
Supervisor level

Zellebene
Cell level

Prozessebene
Process level

Sensor-/Actorebene
Sensor-/Actuator level



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NetNode - the Ethernet-Gateway to the field level

■ For a further increase of productivity

In the automation technology the vertical integration takes over a leading position in future. That means a general communication from the control level up to the field level. As basic for this the Ethernet with the TCP/IP protocol offers itself. This structure change brings up the question, how to integrate the already existing field devices at the market and the already existing installation?

■ the NetNode

as a free configurable Ethernet-Gateway is a flexible and reasonably priced solution. It is constructed modular and offers up to three serial interfaces to the periphery. The built-in display together with the cursor keys offer a local parameterisation and start-up without any further aids. Alternatively this can be done via a PC, which is connected to the NetNode via the serial diagnostic interface or the Ethernet network. The NetNode is mounted at a DIN rail and needs the in the industry usual 24 V power supply.

■ The special advantage

is the free configurable Gateway function. For standard application data are transmit transparently between the serial and the TCP/IP protocol. That means that the data adaptation has to be done at the central place in the control system. This result an intervention in the instrumentation and control each time devices become connected or changes in the periphery have to be made. The NetNode offers the possibility to program and perform these adaptation locally with the help of the program iCon-L. With this a standard data model for different devices can be realised. In addition it offers the possibility to program customer specific protocol courses. This is always necessary when the devices which have to be connected have a proprietary transmission protocol.

■ iCon-L

is a graphical programming tool at the basic of function blocks. They become parameterised and are connected with graphical lines. With this the course and the processing of the data are fixed. The function modules were specially developed and they realise the communication functions in a really efficient and understanding way. The program which was produced in this way is checked for syntax errors afterwards and transmitted to the NetNode. Start-up and test are done directly by the online debugger of iCon-L in the graphical environment.

Technical data

Ethernet Connection	
Transmission rate	10 MBaud
Interface	10BASE-T potential-free
Plug	RJ45
Serial Interface	
Transmission rate	50 to 19,2 kBaud
Interface	RS232C RS422 RS485 non-isolated
Plug	DSub socket, 9 pol.
Diagnostic Interface	
RS232C, non-isolated	
Display	
LCD-Display 2 x 16 characters	
Operating Elements	
6 keys	
Operating Voltage	
18 – 30 V / 0,2 A bei 24 V	
Operating Temperature	
0°C – 55° C	
Dimensions (L x W x H)	
130 x 110 x 80 mm	
International Protection Class	
IP 50	
Mounting	
Mounting rail DIN EN 50022	
Immunity	
EN 50082-2	
Emission	
EN 55011 Cl. B	

Product Overview

NetNode	1. Interface	2. Interface	3. Interface	4. Interface
NN-40	Ethernet	RS232C/422/485		

Related Products

Product	Description
ICONL-PRG	Programming tool
CAB-NN	Service cable NetNode