Product Information Network Adapter NetCon

Automation and rationalisation

Ethernet and the TCP/IP protocol have been successfully established as communication media in automation processes. The technology is applied on all levels for the networking of control units, drives and PCs. In addition to a technically mature and standardised technology, the media offer a great potential for rationalisation.

Ethernet networks are mainly used in automation - no matter if in the automation of manufacturing, processes or buildings.

The ideal connection

The network adapter NetCon is the central link between the connected actuators and the Ethernet network. The functions of the connected control units and sensors are thus transferred to a Master via the NetCon and the network.

The multi-channel controller TOPAX DX Net meets all necessary requirements on a Master and has an Ethernet network interface module through which all controller outputs can be controlled (see back side).

Connecting the external actuators

Alternatively, the following units can be connected to the NetCon:

- a control valve with ATE servo motor and position feedback
- a control valve and a dosing pump with a suction line with level control
- a dosing pump with a suction line and flow control or two dosing pumps with one suction line each
- a peristaltic pump with a suction line or two peristaltic pumps with two suction lines.

Each network device (several TOPAX DX controllers and NetCon adapters with the actuators connected to them) is connected to a router through a star network. The router transfers the data packets via twisted-pair cables to the respective network device. In smaller systems, the TOPAX DX controller can also be directly connected to the NetCon.

For configuration and navigation inside the menus, NetCon has a clearly arranged display, four function keys and five navigation keys. Network and control configurations at the NetCon are possible without further auxiliary equipment.

In short

- Central link between the Ethernet and a actuator
- Different output functions
- Connection of Ethernet compatible devices to data transfer
- Simplified programming, operation and maintenance
- Device configuration without auxiliary equipment
- Clearly arranged display
- Protection class IP 65

Technical data

Supply voltage	230 V AC, 50/60 Hz
Power consumption	Approx. 24 W
Dimensions (W x H x D)	166 x 161 x 72 mm
Display	Graphic display with 128 x 64 pixels and backlight
Keyboard	Keypad with nine function keys
Analogue input	for potentiometer of the position feedback of the control valve (1...10 kOhms)
Digital inputs	• 2x Level pre-alarm and main alarm (alternatively flow control) • Alarm relay
Digital outputs	• Control 1 control valve • Control 1-2 dosing pumps • Control 1-2 peristaltic pumps
Output functions	• Pulse frequency 10... 200 impulses/min. • Pulse length 10…120 seconds • control output (ON/OFF) • OPEN/CLOSE control • 3-point steps (ATE drive)
Network connection	RJ 45
Load capacity of the outputs	230 V AC, 3A
Protection class	IP 65
Ambient temperature	-5 ... +45 °C
Atmospheric moisture	95 % non-condensing

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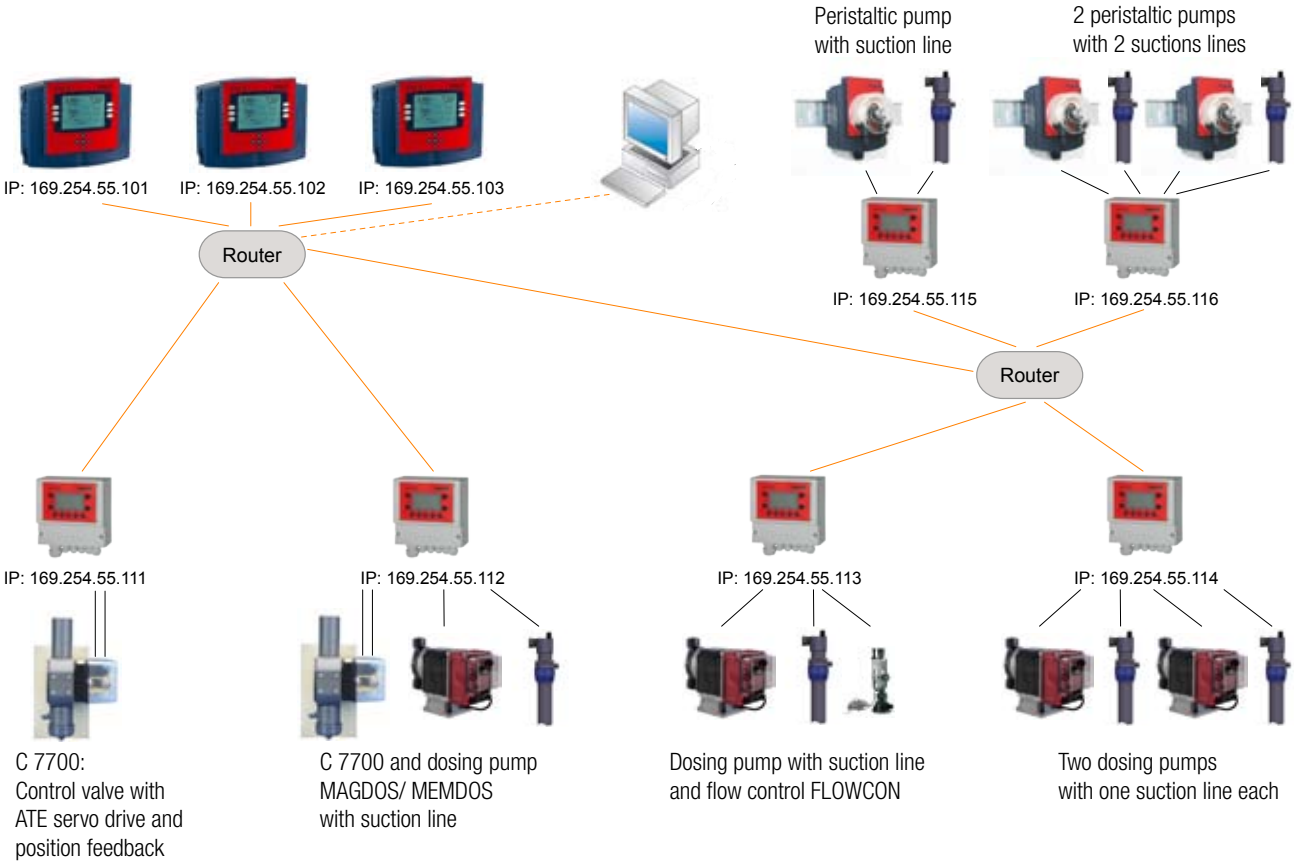
Model variant

Product	Order no.
Network Adapter NetCon	47500001

Installation examples for network or direct connection



Direct connection of NetCon (without router)

Ethernet

Modbus

TOPAX DX Net

As an option, TOPAX DX is available as a network compatible multi-channel controller which can easily be integrated in an Ethernet network. In combination with the network adapter NetCon, all four controller outputs and the control unit of the flocculent pump can be controlled via Ethernet. TOPAX DX Net thus communicates with the connected actuators via the network and the TCP/IP protocol. A time- and cost-comsuming recabling is not necessary. The configuration of TOPAX DX Net is as usual menu-driven and graphically supported.

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