

netTAP 50

Low-Entry Gateway for Industrial Automation networks

- 💡 **For Fieldbus to Serial or Ethernet conversions**
- 💡 **Short I/O data conversion time lower than 20 msec**
- 💡 **Extremely space-saving compact design**
- 💡 **Loadable firmwares for flexible use of many conversions**



EtherNet/IP™

CANopen®

Modbus

CC-Link

PROFI
NET®

PROFI
BUS®

DeviceNet™

I/O protocol gateway for basic conversions

netTAP 50 is a protocol converter for simple conversions. netTAP 50 converts 1-port Real-Time Ethernet, fieldbus and serial automation protocols. Slave to slave or slave to master conversions are supported. As a master, netTAP 50 provides full master functionality to one slave device only. This makes it easy to integrate a single field device into any higher-level network.

The design impresses with a cost-optimized, compact hardware implementation being reduced to the elementary requirements of a protocol converter. The converter addresses market segments which set the focus on cost savings. The cost-reduced design combined with its countless conversion possibilities makes netTAP 50 an attractive gateway in terms of price and universality.

netTAP is configured and diagnosed by the universal FDT/DTM technology based configuration tool SYCON.net. LED indicators are visualizing status information for rapid on-site diagnostics. The protocol conversions are preprogrammed and loaded as firmware into the device on demand. Conversions needing the same physical network interface can be managed by a single device variant. So a device can be for example a PROFIBUS slave on one hand or a PROFIBUS master by a simple firmware change on the other.

PRODUCT INFORMATION

TECHNICAL DATA

Technical Data

Operating temperature

±0 ... +60 °C

Power Supply

+18 ... +30 V / 130 mA @ +24 V

Dimensions (L x W x H)

100 x 25 x 70 mm (without connector)

Weight

80 g

Diagnostic Interface

Ethernet, RJ45 female connector

Displays

SYS, COM, LINK, Rx / Tx, protocol specific

Configuration

SYCON.net, Windows® 7 or higher

Connector

Mini-COMBICON 2-pin

Mounting

DIN-Rail, DIN EN 60715

Certification

CE Sign

Technical Data

RS232/485/422

not electrically isolated

Emission | Noise Immunity

CISPR 11 Class A | EN 61131 - 2 : 2003

Maximum Cyclic Process Data

	Master	Slave
ASCII	1000	Bytes I/O-Data
CANopen	1024	1024 Bytes I/O-Data
CC-Link		736 Bytes I/O-Data
DeviceNet	510	510 Bytes I/O-Data
EtherNet/IP	1008	1008 Bytes I/O-Data
Modbus RTU	1024	1024 Bytes I/O-Data
Modbus TCP	1024	1024 Bytes I/O-Data
PROFIBUS	488	488 Bytes I/O-Data
PROFINET	2048	1024 Bytes I/O-Data

The maximum convertible number of I/O data of a protocol combination is determined by the protocol with the lower amount of I/O Data.

Note: All technical data may be changed without further notice.

NT 50-		CANopen		CC-Link		DeviceNet		PROFIBUS		EtherNet/IP PROFINET		Modbus TCP		Modbus RTU		ASCII	
		Master*	Slave	/	Slave	Master*	Slave	Master*	Slave	Master*	Slave	Master	Slave	Master	Slave	/	
CANopen	Master*	/	/	/	/	/	/	/	/	/	CO-EN	CO-EN	CO-EN	CO-EN	CO-RS	CO-RS	CO-RS
	Slave	/	/	/	/	/	/	/	/	/	CO-EN	CO-EN	CO-EN	CO-EN	CO-RS	CO-RS	CO-RS
CC-Link	Slave	/	/	/	/	/	/	/	/	/	CC-EN	CC-EN	CC-EN	CC-EN	CC-RS	CC-RS	CC-RS
DeviceNet	Master*	/	/	/	/	/	/	/	/	/	DN-EN	DN-EN	DN-EN	DN-EN	DN-RS	DN-RS	DN-RS
	Slave	/	/	/	/	/	/	/	/	/	DN-EN	DN-EN	DN-EN	DN-EN	DN-RS	DN-RS	DN-RS
PROFIBUS	Master*	/	/	/	/	/	/	/	/	/	DP-EN	DP-EN	DP-EN	DP-EN	DP-RS	DP-RS	DP-RS
	Slave	/	/	/	/	/	/	/	/	/	DP-EN	DP-EN	DP-EN	DP-EN	DP-RS	DP-RS	DP-RS
EtherNet/IP PROFINET	Master*	/	CO-EN	/	CC-EN	/	DN-EN	/	DP-EN	/	/	/	/	RS-EN	RS-EN	RS-EN	RS-EN
	Slave	CO-EN	CO-EN	/	CC-EN	DN-EN	DN-EN	DP-EN	DP-EN	/	/	/	/	RS-EN	RS-EN	RS-EN	RS-EN
Modbus TCP	Master	CO-EN	CO-EN	/	CC-EN	DN-EN	DN-EN	DP-EN	DP-EN	/	/	/	/	RS-EN	RS-EN	RS-EN	RS-EN
	Slave	CO-EN	CO-EN	/	CC-EN	DN-EN	DN-EN	DP-EN	DP-EN	/	/	/	/	RS-EN	RS-EN	RS-EN	RS-EN
Modbus RTU	Master	CO-RS	CO-RS	/	CC-RS	DN-RS	DN-RS	DP-RS	DP-RS	RS-EN	RS-EN	RS-EN	RS-EN	/	/	/	/
	Slave	CO-RS	CO-RS	/	CC-RS	DN-RS	DN-RS	DP-RS	DP-RS	RS-EN	RS-EN	RS-EN	RS-EN	/	/	/	/
ASCII	/	CO-RS	CO-RS	/	CC-RS	DN-RS	DN-RS	DP-RS	DP-RS	RS-EN	RS-EN	RS-EN	RS-EN	/	/	/	/

Ordering example: PROFIBUS Master to EtherNet/IP Slave = NT 50-DP-EN

* Master license included; supports Master functionality to one slave (Modbus RTU/TCP without limitations)

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