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 · PROFINET · PROFIBUS · 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 pre-programmed 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.

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Service-Hotline: +49 (0) 6190 9907-90
www.hilscher.com

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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 × 25 × 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 Sig, UKCA

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