PN/ModbusTCP Coupler

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- Very compact design for top hat rail mounting
- Redundant power supplies
- Galvanic isolation of the networks
- Up to 1024 input/output data
- 300 configurable slots for PROFINET IO data
- Supports the full ModbusTCP address space with free assignment of IO data
- Supports multiple simultaneous ModbusTCP clients
- Configuration only with GSDML file; no additional software required
- MQTT Publisher on both network sides (PROFINET & ModbusTCP)

Simple and uncomplicated connection of a PROFINET network with a ModbusTCP network is possible with the PN/ModbusTCP Coupler. The PN/ModbusTCP Coupler enables data transmission between a PROFINET controller and ModbusTCP participants. Received input data on one of the network sides is made available as output data to the other network side. The IO data transfer takes place live and as quickly as pos-sible without additional handling blocks.

The maximum size of the transmitted data is 1024 bytes of input/output data. Up to 300 slots for IO modules are available. The integration into the PLC engineering tool is made possible by a GSDML file; special configuration software isn't necessary.

In addition to the PROFINET / ModbusTCP communication, the PN/ModbusTCP Coupler also makes an MQTT Publisher available on both network sides. In this way, the values exchanged via the gateway can also be distributed via MQTT to visualization or operating data recording systems.

Technical specifications

General information	
Order number	700-159-3MB01
Article name	PN/ModbusTCP Coupler
Scope of delivery	PN/ModbusTCP Coupler incl. Quick Start Guide
Dimensions (DxWxH)	35 x 58 x 72 mm
Weight	Approx. 135 g
PROFINET interface	
Number	1 with 2 ports
Protocol	PROFINET IO as defined in IEC 61158-6-10
Transmission rate	100 Mbps full duplex
I/O image size	max. 1024 bytes of input and output data
Connection	2 x RJ45
integrated switch	Yes
Features	Media redundancy (MRP), automatic addressing, topology detection (LLDP, DCP), diagnosis alarms
ModbusTCP interface	
Number	1 with 2 ports

Protocol	ModbusTCP server
Transmission rate	10/100 Mbps full duplex
I/O image size	65536 coil bits, 65536 discrete input bits, 65536 input register, 65536 holding register
Connection	2x RJ45
integrated switch	Yes
Supports Modbus function codes	1, 2, 3, 4, 5, 6, 15, 22, 23
Status indicator	9 LEDs function status, 8 LEDs Ethernet status
Voltage supply	
Voltage supply	24 V DC (18 - 28 V DC)
Current draw	max. 210 mA
Ambient conditions	
Ambient temperature	0 °C to 60 °C
Transport and storage temperature	-20 °C to 80 °C
Protection rating	IP 20
Certifications	CE
CE	
RoHS	Yes
REACH	Yes