®

Remote I/O System excom®
PROFIBUS-DP Interface
GDP-N /FW2.3

TURCK

Industrial
Automation

The GDP-N gateway serves to connect the *excom®* system to PROFIBUS-DP networks. Connection to the PROFIBUS-DP is established via optical fibers or copper cables. When using optical fibers for data transmission, an optocoupler pair must be installed between wired and optical PROFIBUS.

The gateway can be operated at a maximum transmission rate of 1500 kbps. The bus is connected to a standard miniature SUB-D slot on the module rack.

A GSD file containing all configuration files and parameter sets is available for system configuration. When connected to suitable host systems, you can change the system configuration during operation.

The gateway provides the entire range of PROFIBUS diagnostic functions including port-related diagnostics. Additionally, manufacturer-specific error codes are generated. For example HART® communication errors, power supply errors, planning errors as well as information on simulators, internal communication and redundancy status.

Redundancy: The use of two gateways and two bus cables ensures error-free communication, in case one gateway or one bus line may fail. If one of the components fails, the other immediately takes over (module racks MT18… only), this is called line redundancy. System redundancy (two masters, each with its own segment coupler connected to a gateway) is also supported.

Recommended wiring components:

■ PROFIBUS-DP cable, type 451

■ D9T-RS485 connector

■ **Gateway for PROFIBUS-DPV1 communication**

■ **Connection of the *excom®* station to the PROFIBUS-DP networks**

■ **Baud rate max. 1.5 Mbps**

■ **PROFIBUS interface acc. to PROFIBUS user organization (PNO)**

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Type designation	GDP-N /FW2.3
Ident no.	6884277

Supply voltage	via module rack, central power supply module
Power consumption	≤ 1 W
Galvanic isolation	to int. bus and supply circuit

Transmission rate	9.6 kbps up to 1.5 Mbps
Addressing range	1 … 99

Indication	
Operational readiness	1 x green / red
Int. communication (CAN)	1 x yellow / red
Ext. Communication (PDP)	1 x yellow / red
Redundancy readiness (PRIO)	1 x yellow / red
Error indication	1 x red

Housing material	Plastic
Connection mode	module, plugged on rack

Protection class	IP20
Ambient temperature	-20…+70 °C
Relative humidity	≤ 95 % at 55 °C acc. to EN 60068-2
Vibration test	acc. to IEC 60068-2-6
Shock test	acc. to IEC 60068-2-27
EMC	acc. to EN 61326-1 (2006)
	acc. to NAMUR NE21 (2007)
MTTF	144 acc. to SN 29500 (Ed. 99) 40 °C
Dimensions	18 x 118 x 103 mm

Dimensions