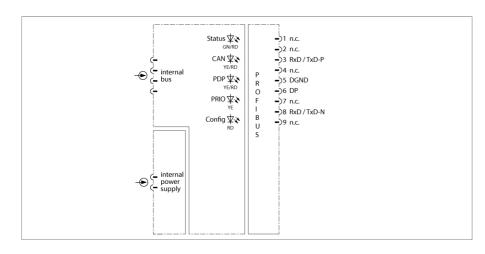


excom I/O System PROFIBUS-DP Interface GDP-N/FW2.3



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. In addition, manufacturer-specific error codes are generated. They include HART communication errors, power supply errors, planning errors as well as information on simulators, internal communication, redundancy toggle, etc. **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
- Baud rate max. 1.5 Mbps
- PROFIBUS interface acc. to PROFIBUS user organization (PNO)



GDP-N/FW2.3 Туре ID 6884277 Supply voltage Via module rack, central power supply module Power consumption \leq 1 W Galvanic isolation to int. bus and supply circuit 9.6 kbps up to 1.5 Mbps Transmission rate Addressing range 1 ... 99 IECEx TUR 21.0012X Ex approval acc. to conformity certificate TÜV 21 ATEX 8643 X Ex approval acc. to conformity certificate 🖾 II 3 G Ex ec IIC T4 Gc Device designation Displays/Operating elements Operational readiness 1 × green/red Int. communication (CAN) 1 × yellow/red Ext. Communication (PDP) 1 × yellow/red Redundancy readiness 1 × yellow/red Error indication 1 x red Housing material Plastic Connection mode module, plugged on rack IP20 Protection class Ambient temperature -40...+70 °C Relative humidity \leq 93 % at 40 °C acc. to IEC 60068-2-78 Vibration test Acc. to IEC 60068-2-6 Shock test Acc. to IEC 60068-2-27 EMC Acc. to EN 61326-1 Acc. to Namur NE21 MTTF 144 years acc. to SN 29500 (Ed. 99) 40 °C Dimensions 18 x 118 x 106 mm ATEX Approvals cFMus cFM IECEx CE



