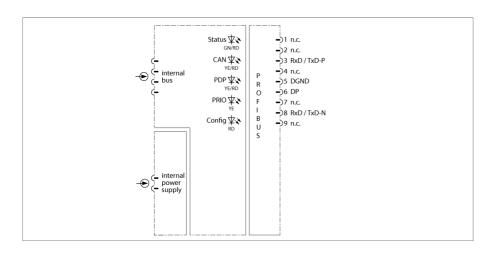


excom I/O System PROFIBUS-DP Interface GDP-NI/FW2.3



The GDP-NI 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 gateway fails, the other takes over smoothly, this is called line redundancy. System redundancy (two masters, each connected to a gateway) is also supported.

Recommended wiring components:

- PROFIBUS-DP cable, type 451
- D9T-RS485 connector

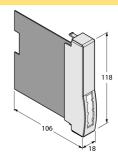


- Gateway for PROFIBUS-DPV1 communication
- Connection of the excom station to the PROFIBUS
- Baud rate max. 1.5 Mbps
- PROFIBUS interface acc. to PROFIBUS user organization (PNO)



GDP-NI/FW2.3 Туре ID 6884276 Supply voltage Via module rack, central power supply module Power consumption \leq 1 W Galvanic isolation Complete galvanic isolation 9.6 kbps up to 1.5 Mbps Transmission rate Addressing range 1 ... 99 Ex approval acc. to conformity certificate IECEx PTB 19.0043X PTB 13 ATEX 2013 X Ex approval acc. to conformity certificate 🐵 II (2) G [Ex ib] IIC 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 Protection class IP20 Ambient temperature -20...+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 CCC KOSHA UKCA CE

Dimensions





Accessories

Type code Ide	lent no.		Dimension drawing
GDP-NI ZONE2 MARK- 100	00041987	Marking set to be used in Zone 2 to indicate that the GDP-	
ING SET (2PCS)		NI and the Profibus connection must not be connected or dis- connected when energized.	

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