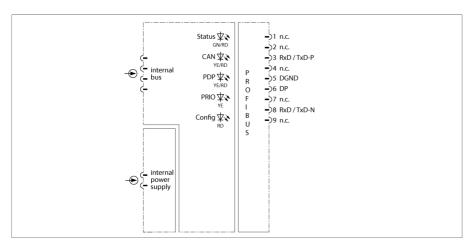


excom I/O System PROFIBUS-DP Interface GDP-NI/FW2.3





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)

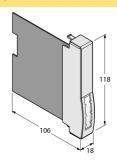


Dimensions

Туре	GDP-NI/FW2.3	
ID	6884276	
Supply voltage	Via module rack, central power supply module	
Power consumption	≤ 1 W	
Galvanic isolation	Complete galvanic isolation	
Transmission rate	9.6 kbps up to 1.5 Mbps	
Addressing range	1 99	
Ex approval acc. to conformity certificate	IECEx PTB 19.0043X	
Ex approval acc. to conformity certificate	PTB 13 ATEX 2013 X	
Device designation	⑤ II (2) G [Ex ib] IIC	
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	≤ 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

cFMus cFM **IECEx** CCC KOSHA UKCA CE



Approvals



Accessories

Type code	Ident-No.		Dimension drawing
GDP-NI ZONE2 MARK-	100041987	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.	