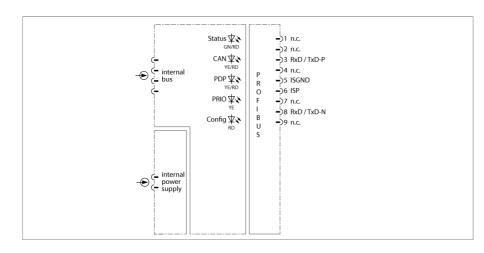


excom I/O System PROFIBUS-DP Interface GDP-IS/FW2.3



The GDP-IS 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 transfer an optocoupler pair must be installed between wired and optical PROFIBUS which also adapts the level to the IS layer. When using copper cables a segment coupler (RS485-IS coupler) must be installed to ensure explosion protection.

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 451B
- D9T-RS485IS connector
- SC12Ex segment coupler
- OC11Ex/... optocoupler



- Intrinsically safe gateway for PROFIBUS-DPV1
- Connection of the excom station to the PROFIBUS
- Baud rate max. 1.5 Mbps
- PROFIBUS interface acc. to PROFIBUS user organization (PNO) with RS485-IS layer



Dimensions

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106	\backslash		
	\rightarrow	18	

туре	GDP-IS/FW2.3		
ID	6884275		
Supply voltage	Via module rack, central power supply module		
Power consumption	≤ 1 W		
Galvanic isolation	Complete galvanic isolation EN 60079-11		
Transmission rate	9.6 kbps up to 1.5 Mbps		
Addressing range	1125		
Ex approval acc. to conformity certificate	IECEX PTB 13.0037		
Ex approval acc. to conformity certificate	PTB 09 ATEX 2013		
Device designation	ا £ G Ex ib IIC T4		
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	126 years acc. to SN 29500 (Ed. 99) 40 °C		
Dimensions	18 x 118 x 106 mm		
Comments	External RS485 fieldbus system:		
	Protection type Ex ib IIC		
	Highest value of each terminal pair: U_i = 4.2 V		
	Highest value of the terminal pairs: Σ I, = 4.8 A		
	Cables type A resp. B acc. to EN 60079-25 with		
	the following assignments:		
	$L'/R' \le 15 \ \mu H/\Omega$		
	C' ≤ 250 nF/km		
	Ø stranded wire \geq 0.2 mm		
	Massed inductances and capacitances in the exter-		
	nal fieldbus system are not permitted		
Approvals	ATEX		
	cFMus		
	cFM		
	IECEx		
	CCC		
	KOSHA		
	EAC Ex		
	DNV GL		
	BV		
	LR		
	KR		
	KCC		

UKCA CE

GDP-IS/FW2.3



Туре