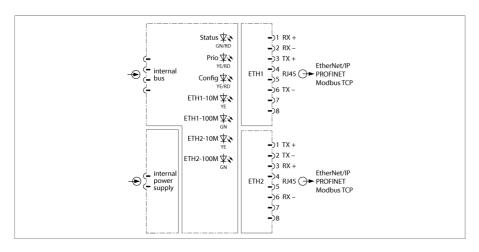


## excom I/O System Multiprotocol Gateway for Ethernet GEN-3G





The gateway is used to connect the excom system to a higher-level Ethernet Fieldbus with the help of the Modbus TCP, Ethernet/IP and PROFINET protocols. The connection to the Fieldbus is created via a standard RJ45 male connector with at least CAT5e cable quality. A ring topology in accordance with DLR or MRP can be implemented using the built-in switch.

The gateway supports 10/100 Mbps, full/half duplex, autonegotiation and autocrossing. With autocrossing switched off, the above assignment must be followed.

A GSDML and EDS 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 diagnostic functions, including port-related diagnostics, in accordance with the Ethernet protocols. 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.

- Gateway for Ethernet fieldbus communication
- Connection of the excom station to the Ethernet fieldbus
- Support for Ethernet protocols Modbus TCP, EtherNet/IP and PROFINET
- Integrated switch, 10/100 Mbps
- Two RJ45 connectors for fieldbus connection



## **Dimensions**

T	OEN 30
Type	GEN-3G
ID	100004545
Supply voltage	Via module rack, central power supply module
Power consumption	≤ 1.5 W
Power dissipation	≤ 1.5 W
Galvanic isolation	Complete galvanic isolation
Connection technology Ethernet	2 × RJ45 female connector
Protocol detection	automatic
Transmission rate	10/100 Mbps, full/half duplex, autonegotiation, au-
	tocrossing
Web server	PGM-DHCP, 192.168.1.254 (fallback)
Ex approval acc. to conformity certificate	IECEx BVS 19.0060
Ex approval acc. to conformity certificate	BVS 19 ATEX E 066
Device designation	(E) II 3(2) G Ex ec ib [ib Gb] IIC T4 Gc
Displays/Operating elements	
Operational readiness	1 × green/red
Redundancy readiness	1 × yellow
Configuration	1 × yellow/red
Baud rate detection	2 × yellow, 2 × green
Ethernet/IP	
Addressing	acc. to EtherNet/IP specification
Device Level Ring (DLR)	supported

24

107

104

106

DCP

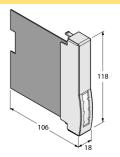
B (RT)

1 ms

max. 1024 register

2048 (0x0800 hex)

acc. to PROFINET alarm handling



Topology detection	supported
Automatic addressing	supported
Media Redundancy Protocol (MRP)	supported
Modbus TCP	
Addressing	Static IP, BOOTP, DHCP
Supported function codes	FC1, FC2, FC3, FC4, FC5, FC6, FC15, FC16, FC23
Number of TCP connections	8
Input Data Size	max. 1024 register
Input register start address	0 (0x0000 hex)

Class 1 connections (CIP)

Output Assembly Instance

Configuration Assembly Instance

Input Assembly Instance

**PROFINET** Addressing

Conformance class

MinCycleTime

Output Data Size

Output register start address

Diagnostics



Housing material	Plastic
Connection mode	module, plugged on rack
Protection class	IP20
Ambient temperature	-40+70 °C
Storage temperature	-40+85 °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	58 years acc. to SN 29500 (Ed. 99) 40 °C
Dimensions	18 x 118 x 106 mm
Approvals	ATEX
	cFMus
	cFM
	IECEx
	CCC
	INMETRO
	KOSHA
	EAC Ex
	UKCA
	CE
	KOSHA EAC Ex UKCA