



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

<b>Type designation</b>		GEN-N
Ident no.		100000129
<b>Supply voltage</b>		Via module rack, central power supply module
Power consumption		≤ 1.5 W
Power dissipation		≤ 1.5 W
Galvanic isolation		Complete galvanic isolation
<b>Connection technology Ethernet</b>		2 × RJ45 female connector
Protocol detection		automatic
Transmission rate		10/100 Mbps, full/half duplex, autonegotiation, autocrossing
Web server		PGM-DHCP, 192.168.1.254 (fallback)
<b>Operational readiness</b>		1 × green/red
Redundancy readiness		1 × yellow
Configuration		1 × yellow/red
Baud rate detection		2 × yellow, 2 × green
<b>Ethernet/IP</b>		
Addressing		acc. to EtherNet/IP specification
Device Level Ring (DLR)		supported
Class 1 connections (CIP)		24
Input Assembly Instance		103
Output Assembly Instance		104
Configuration Assembly Instance		106
<b>PROFINET</b>		
Addressing		DCP
Conformance class		B (RT)
MinCycleTime		1 ms
Diagnostics		acc. to PROFINET alarm handling
Topology detection		supported
Automatic addressing		supported
Media Redundancy Protocol (MRP)		supported
<b>Modbus TCP</b>		
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)
Output Data Size		max. 1024 register
Output register start address		2048 (0x0800 hex)
<b>Housing material</b>		Plastic
Connection mode		module, plugged on rack
<b>Protection class</b>		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

**Dimensions**

