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Ethernet head station for modular HART gateway. Connect up to five GW PL HART...-BUS expansion modules to communicate with up to 40 HART devices. Supports Modbus TCP, HART IP, FDT/DTM and Arcom.

Product description

Ethernet HART multiplexer provides a simple way to parameterize and monitor HART instruments on an Ethernet network and is an ideal replacement for RS-485 HART multiplexer systems. The multiplexer allows users to perform time and money saving operations from the comfort of an office – including loop checks, device calibration, and improved process monitoring with multivariable devices.

Your advantages

- Independent HART controller per channel ensures fastest update rates
- Available communication DTM integrates into an FDT/DTM container and provides the ability to remotely configure HART instruments
- Monitor PV, SV, TV, QV HART variables using Modbus TCP
- Extended temperature range of -40 °C ... +70 °C
- Supports Arcom for simple integration into Emerson AMS

Commercial data

Item number	2702321
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN11
Product key	DNC322
Catalog page	Page 463 (C-6-2019)
GTIN	4055626134390
Weight per piece (including packing)	223 g
Weight per piece (excluding packing)	157 g
Customs tariff number	85176200
Country of origin	DE

Technical data

Notes

Utilization restriction

CCCex note	Use in potentially explosive areas is not permitted in China.
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Product properties

Product type	Gateways/Proxies
MTBF	292 Years (Siemens model SN29500, temperature 40°C, env. factor 1.5 and stress factor 50%)

Electrical properties

Test voltage data interface/power supply	500 V AC
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Supply

Supply voltage range	19.2 V DC ... 30 V DC
Typical current consumption	45 mA (at 24 V DC)
Max. current consumption	62 mA (at 24 V DC)

Interfaces

Web server	yes
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Data

Transmission length	≤ 100 m
Output nominal voltage	24 V DC
Maximum output current	3.937 A (per station)

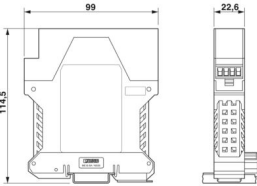
Data: Modbus/TCP, HART IP

Connection method	RJ45 socket, auto negotiation and auto crossing
Protocols supported	TCP/IP, HART IP, Modbus/TCP

Signaling

Status display	Green LED (power and status)
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Dimensions

Dimensional drawing	
Width	22.5 mm
Height	99 mm
Depth	114.5 mm

Material specifications

Color	gray
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

Approvals

Conformity/Approvals

Conformance	CE-compliant
Noxious gas test	ISA-S71.04-1985 G3 Harsh Group A

Ex data

ATEX	Ⓔ II 3 G Ex nA IIC T4 Gc DEMKO 17 ATEX 1749X
IECEX	IECEX ULD 17.0020X Ex nA IIC T4 Gc
UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D

EMC data

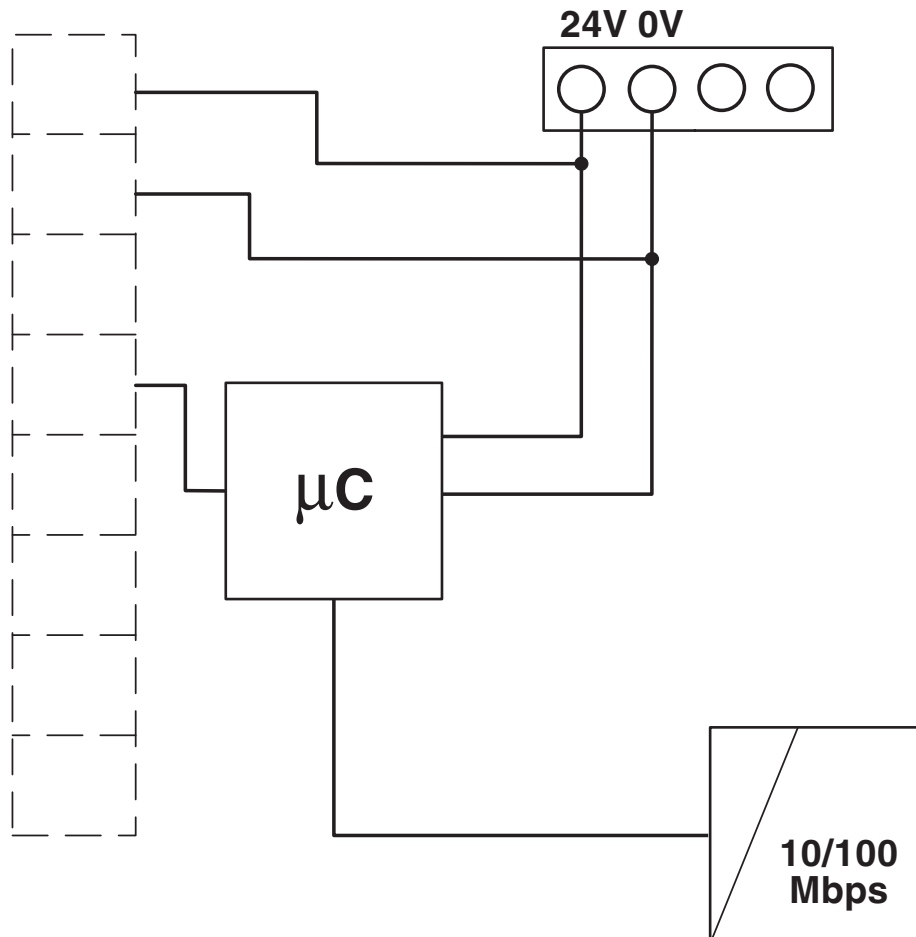
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
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Mounting

Mounting type	DIN rail mounting
Assembly note	on standard DIN rail NS 35 in accordance with EN 60715
Mounting position	any

Drawings

Block diagram



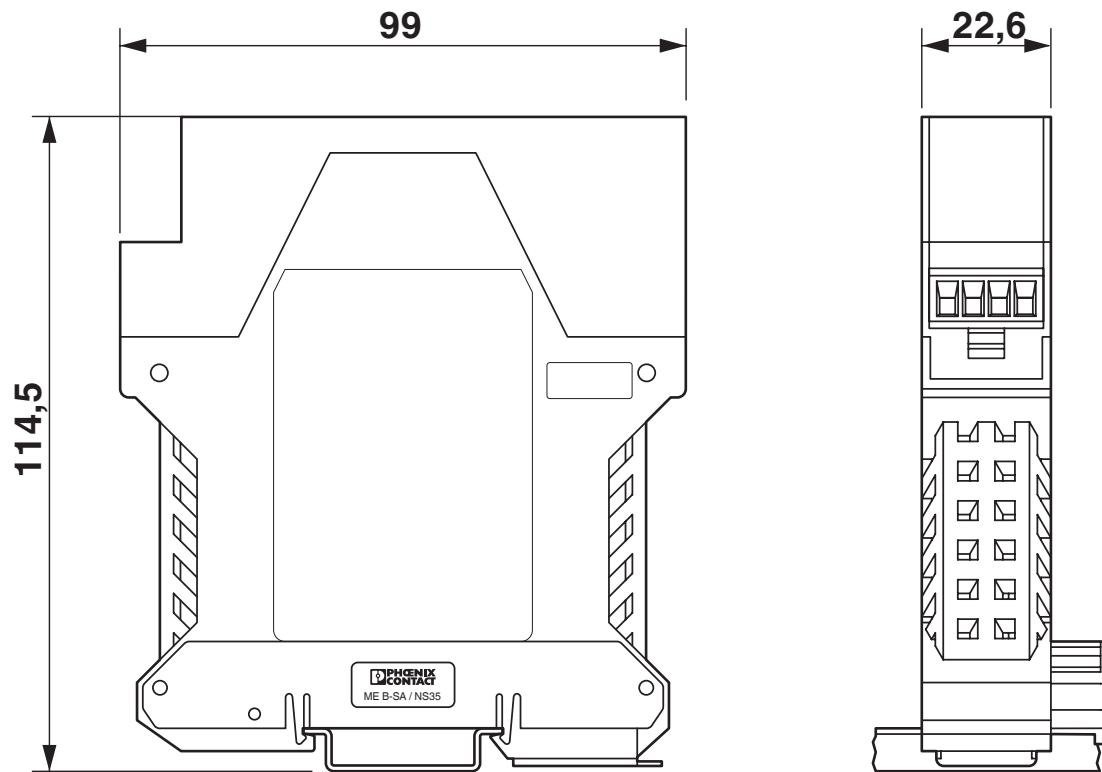
GW PL ETH/BASIC-BUS - Ethernet HART multiplexer

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Dimensional drawing



Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2702321>

**UL Listed**
Approval ID: FILE E 238705

**cUL Listed**
Approval ID: FILE E 238705

**KC**
Approval ID: R-REI-PCK-2702321

**IECEx**
Approval ID: IECEx ULD 17.0020X

**cUL Listed**
Approval ID: FILE E 196811

**UL Listed**
Approval ID: FILE E 196811

**ATEX**
Approval ID: DEMKO 17 ATEX 1749X

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Classifications

ECLASS

ECLASS-11.0	27242208
ECLASS-12.0	27242208
ECLASS-13.0	27242208

ETIM

ETIM 9.0	EC001423
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UNSPSC

UNSPSC 21.0	32151700
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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Accessories

GW PL HART4-BUS - Protocol converter

2702234

<https://www.phoenixcontact.com/us/products/2702234>

Four-channel HART® expansion module, with screw connection



GW PL HART8-BUS - Protocol converter

2702235

<https://www.phoenixcontact.com/us/products/2702235>

Eight-channel HART® expansion module, with screw connection



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GW PL HART8+AI-BUS - Protocol converter

2702236

<https://www.phoenixcontact.com/us/products/2702236>



Eight-channel HART® expansion module with analog loop supply and screw connection

GW PL DIO4-BUS - Protocol converter

2702237

<https://www.phoenixcontact.com/us/products/2702237>



Four-channel digital input and four-channel digital output module with screw connection. For use with Modbus and OPC UA protocols.

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GW PL HART4-R-BUS - Protocol converter

2702879

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Four-channel HART® expansion module, with screw connection, with 250 Ω internal input resistors

GW PL HART8-R-BUS - Protocol converter

2702880

<https://www.phoenixcontact.com/us/products/2702880>



Eight-channel HART® expansion module, with screw connection, with 250 Ω internal input resistors

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