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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
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.

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: Bus

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

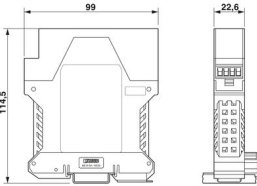
Data: Modbus/TCP, HART IP

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

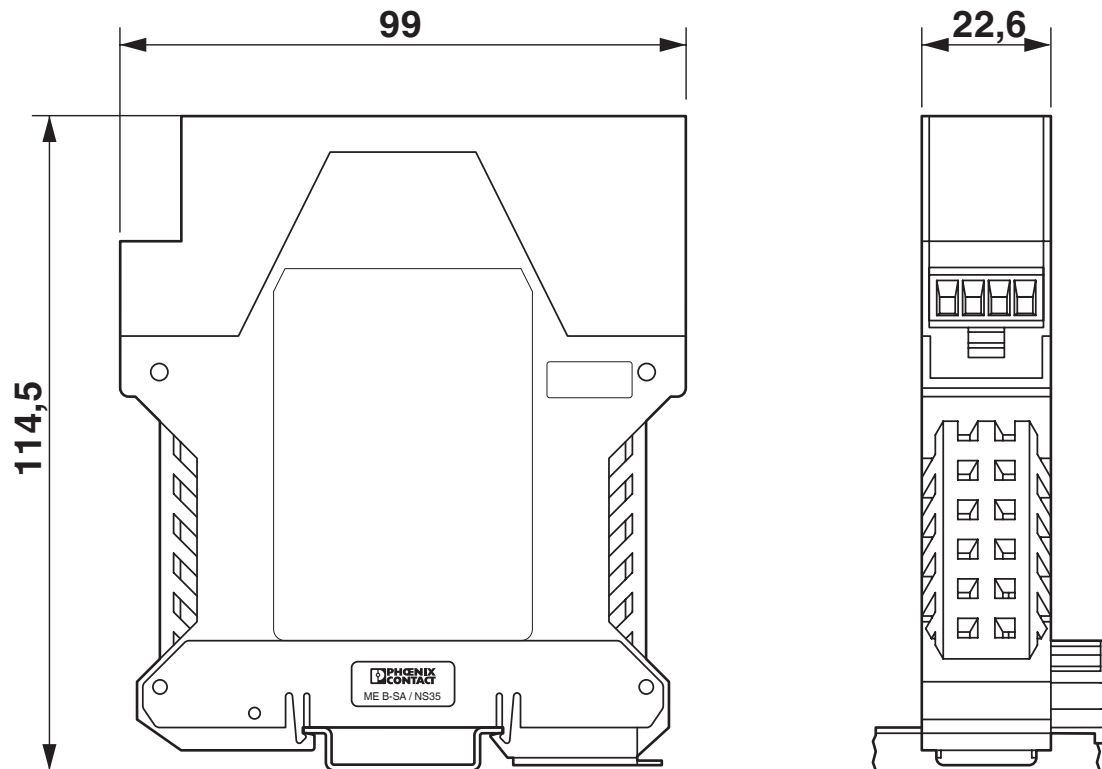
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
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Mounting

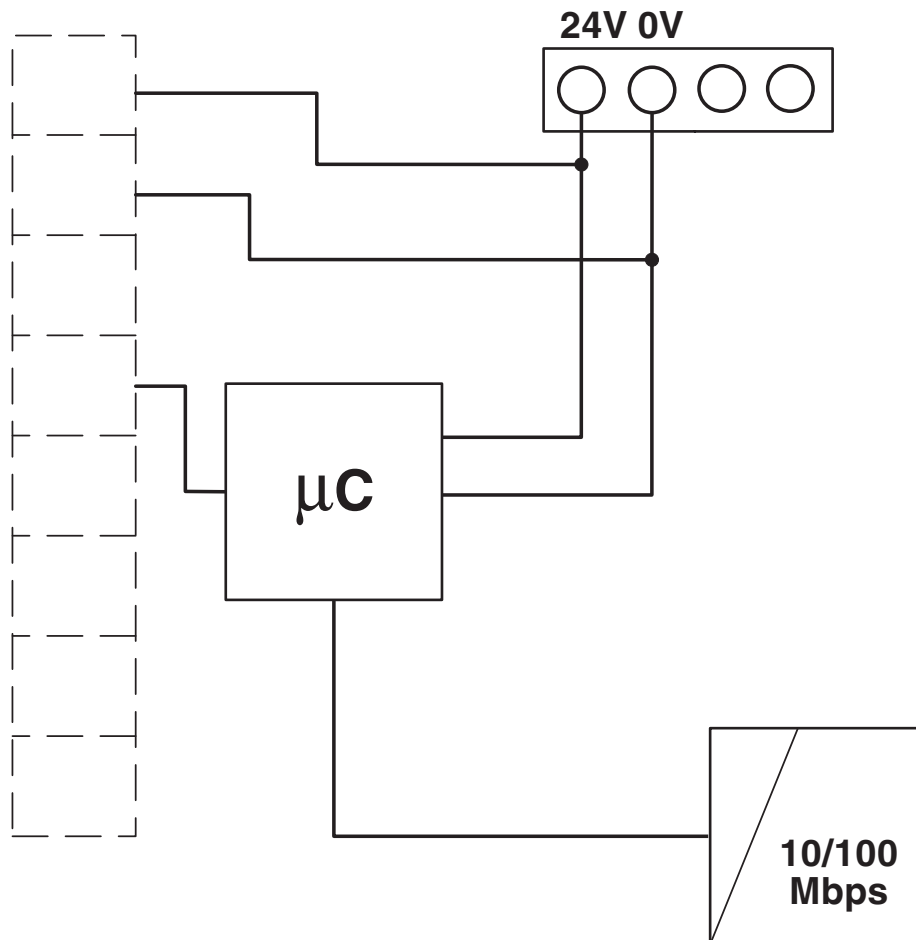
Mounting type	DIN rail mounting
Assembly instructions	on standard DIN rail NS 35 in accordance with EN 60715
Mounting position	any

Drawings

Dimensional drawing



Block diagram



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

cULus Listed

cULus Listed

2702321

<https://www.phoenixcontact.com/us/products/2702321>

Classifications

ECLASS

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

ETIM

ETIM 8.0	EC001423
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UNSPSC

UNSPSC 21.0	32151700
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Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

GW PL ETH/BASIC-BUS - Ethernet HART multiplexer



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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



GW PL ETH/BASIC-BUS - Ethernet HART multiplexer



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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.

GW PL ETH/BASIC-BUS - Ethernet HART multiplexer



2702321

<https://www.phoenixcontact.com/us/products/2702321>

GW PL HART4-R-BUS - Protocol converter

2702879

<https://www.phoenixcontact.com/us/products/2702879>



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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