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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
GTIN	4055626134390
Weight per piece (including packing)	223 g
Weight per piece (excluding packing)	157 g
Customs tariff number	85176200
Country of origin	US

Technical data

Notes

Note on application

Note on application

Only for industrial use

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

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

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

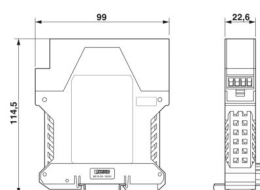
Signaling

Status display

Green LED (power and status)

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

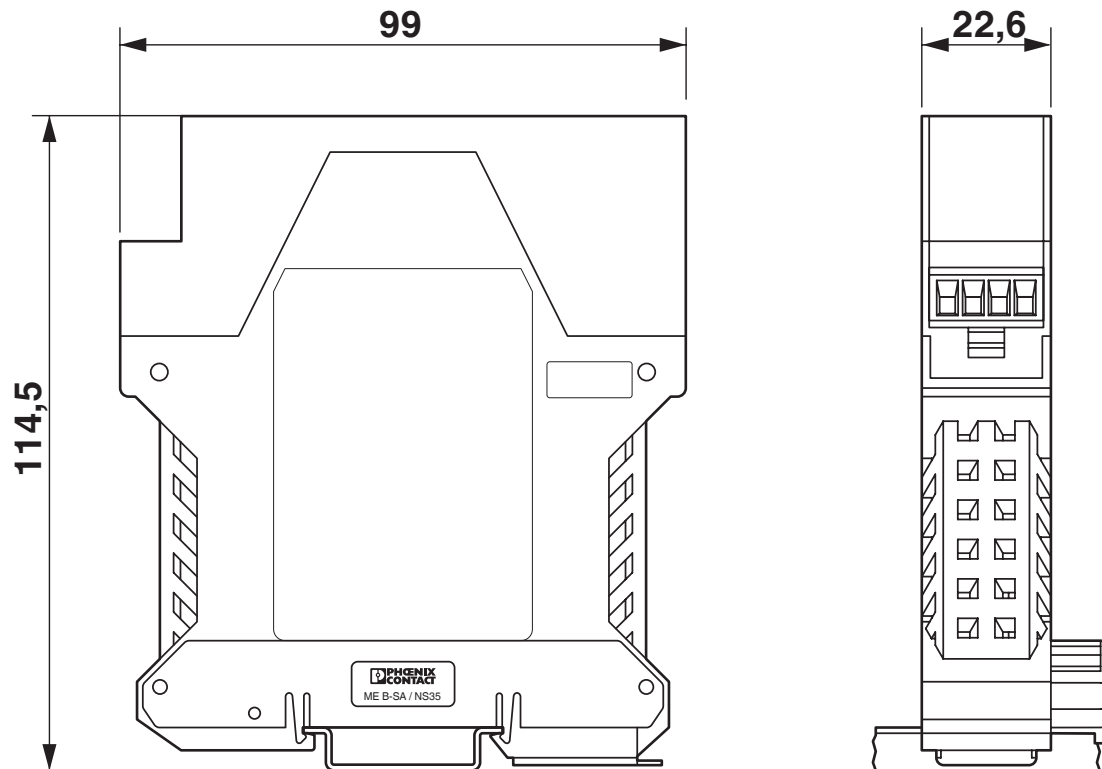
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
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Mounting

Mounting type	DIN rail mounting
Mounting position	any
Useable DIN rail type	DIN rail: 35 mm

Drawings

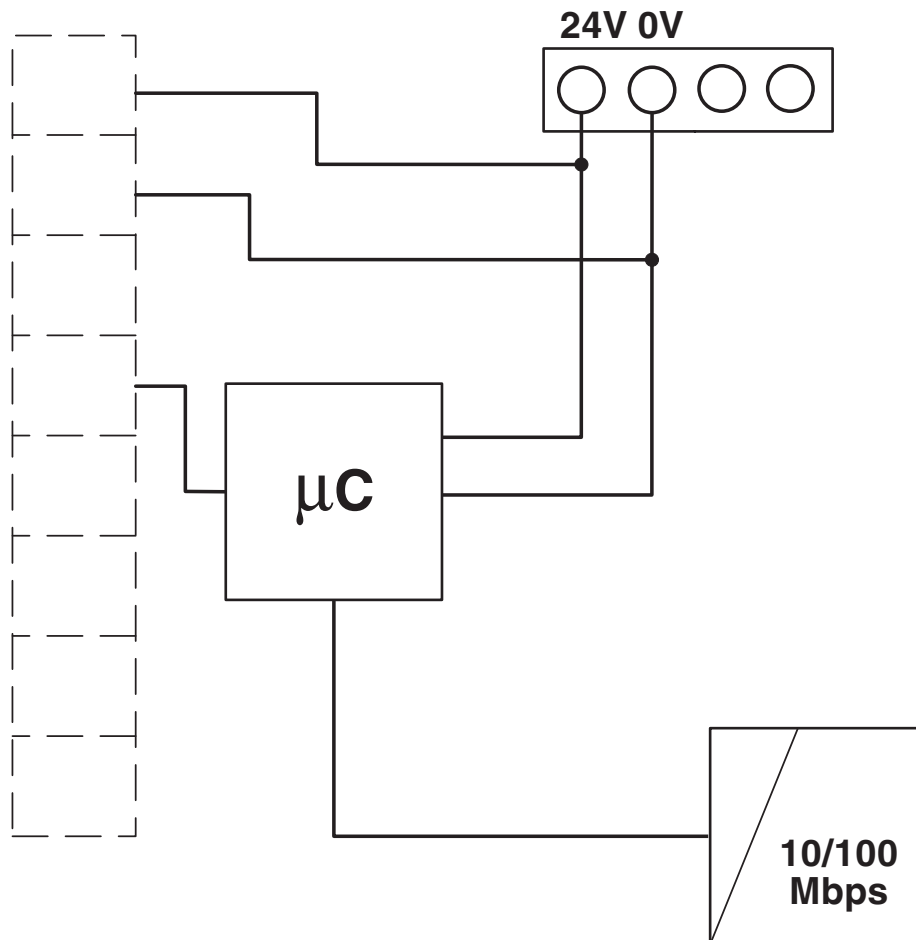
Dimensional drawing



2702321

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

Block diagram



Approvals

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



UL Listed

Approval ID: E238705



cUL Listed

Approval ID: E238705



KC

Approval ID: R-REI-PCK-2702321



IECEx

Approval ID: IECEx ULD 17.0020X



cUL Listed

Approval ID: E196811



UL Listed

Approval ID: E196811



ATEX

Approval ID: DEMKO 17 ATEX 1749X

2702321

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

Classifications

ECLASS

ECLASS-13.0	27242208
ECLASS-15.0	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
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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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