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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                    | 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%)

#### Data management status

Article revision

06

### 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)

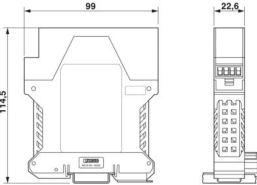
### Dimensions

# GW PL ETH/BASIC-BUS - Ethernet HART multiplexer



2702321

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

|                     |                                                                                    |
|---------------------|------------------------------------------------------------------------------------|
| Dimensional drawing |  |
| Width               | 22.5 mm                                                                            |
| Height              | 99 mm                                                                              |
| Depth               | 114.5 mm                                                                           |

## Material specifications

|       |      |
|-------|------|
| Color | gray |
|-------|------|

## 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

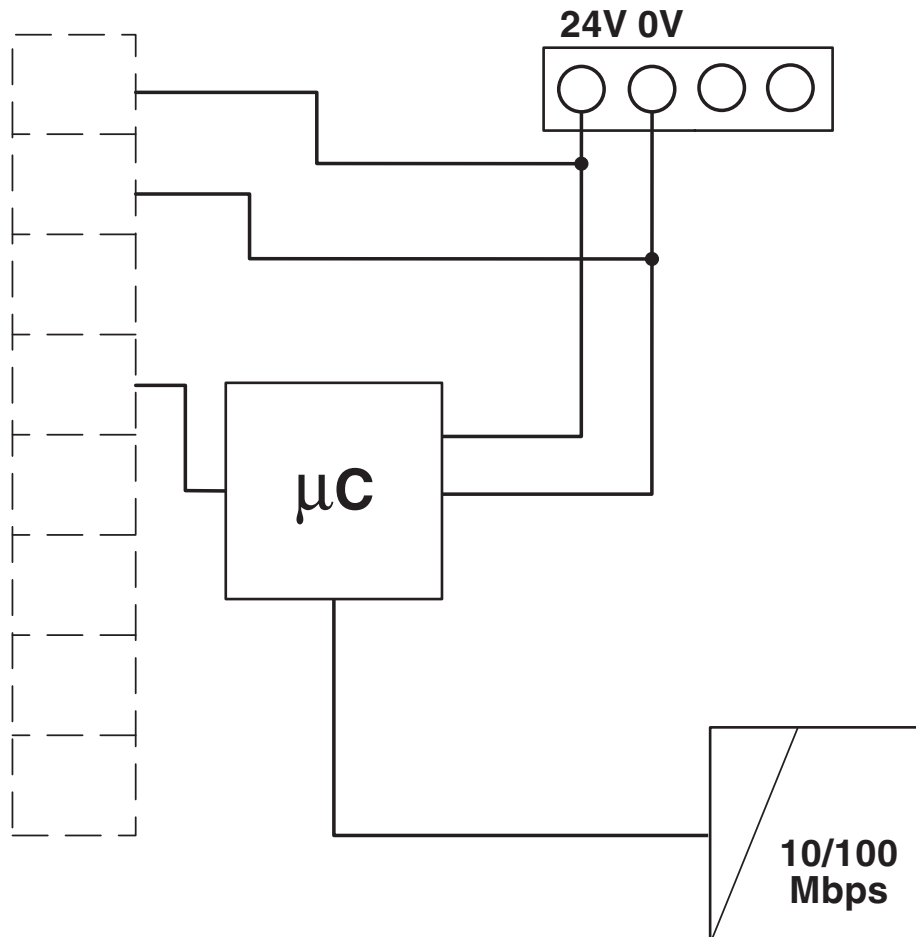
|                               |                                            |
|-------------------------------|--------------------------------------------|
| Electromagnetic compatibility | Conformance with EMC Directive 2004/108/EC |
|-------------------------------|--------------------------------------------|

## 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



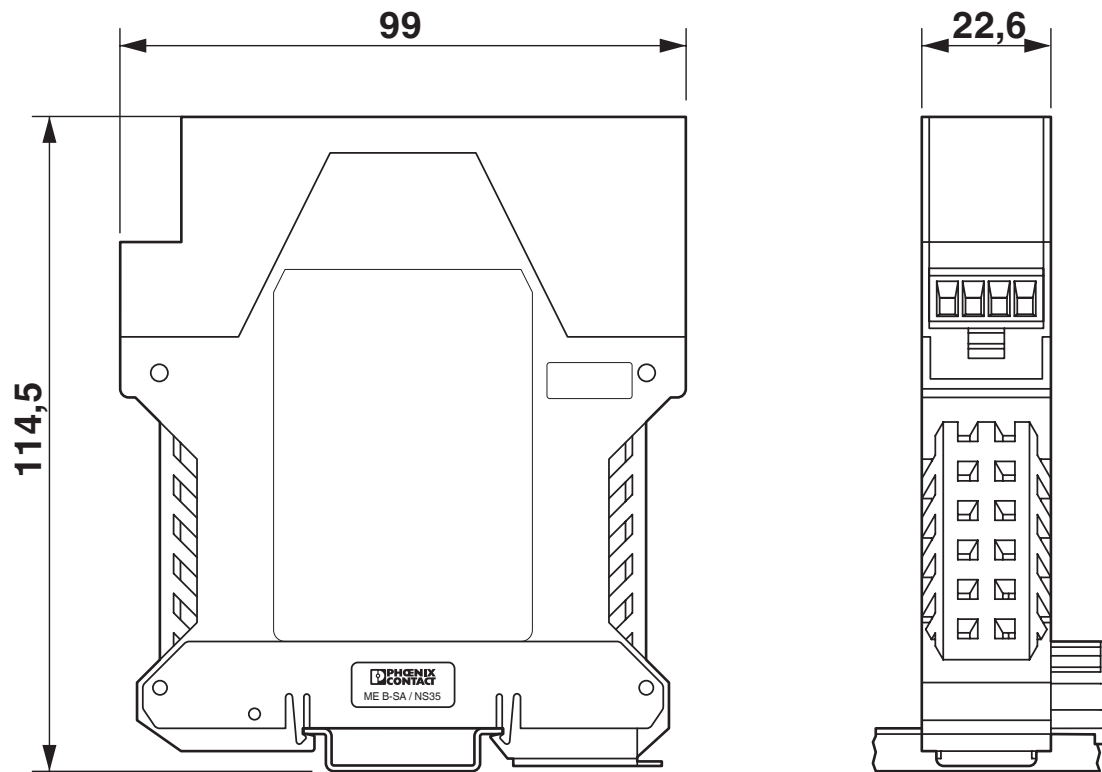
# GW PL ETH/BASIC-BUS - Ethernet HART multiplexer

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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: 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

**cULus Listed**

**cULus Listed**

Classifications

ECLASS

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

ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC001423 |
|----------|----------|

UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 32151700 |
|-------------|----------|

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



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### 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

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## 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



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<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  $\Omega$  internal input resistors

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## 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  $\Omega$  internal input resistors

# GW PL ETH/BASIC-BUS - Ethernet HART multiplexer



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## FL DIN RA - DIN rail adapter

2891053

<https://www.phoenixcontact.com/us/products/2891053>

The FL DIN RA is installed in a standard, 19-inch rack (EIA-310-D, IEC 60297-3-100) to allow DIN rail mounted equipment to be rack mounted.



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