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

2702321

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

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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

ELEKTROGERÄTE RÜCKNAHME

## 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) |

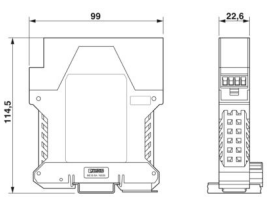
Data: Modbus/TCP, HART IP

| | |
|---|---|
| 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 (Housing) | light gray (RAL 7035) |

## 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 | Ⓔx 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

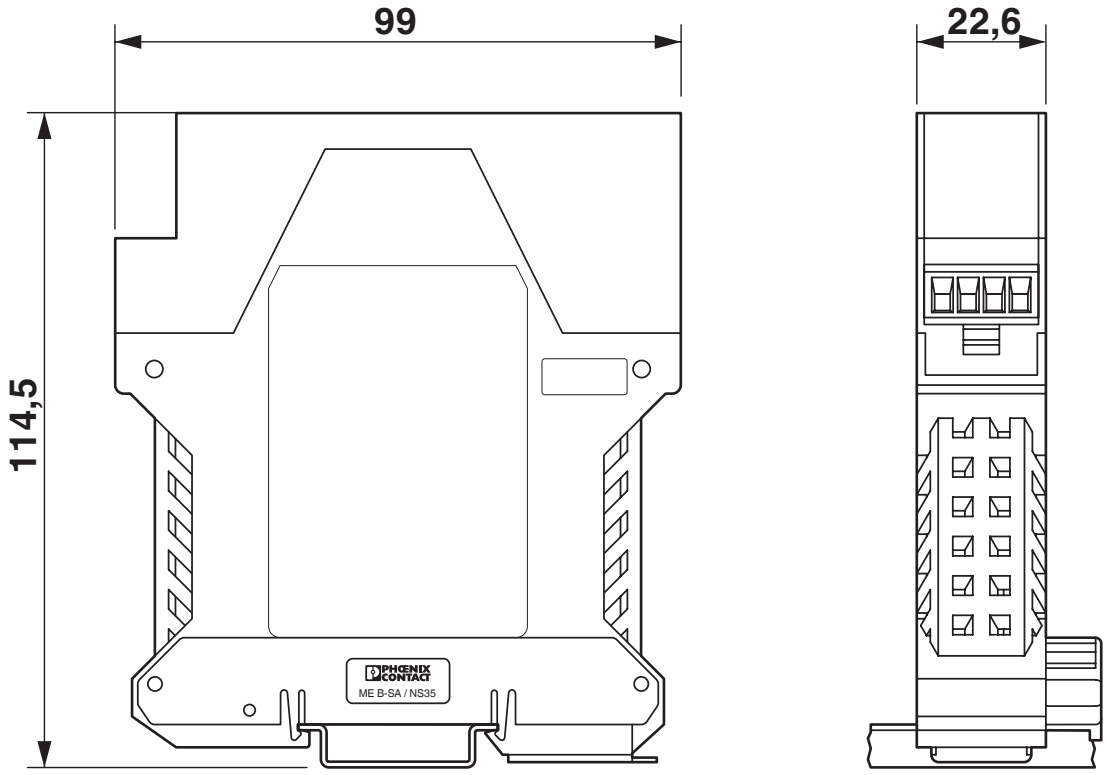
| | |
|---|---|
| Electromagnetic compatibility | Conformance with EMC Directive 2004/108/EC |

## Mounting

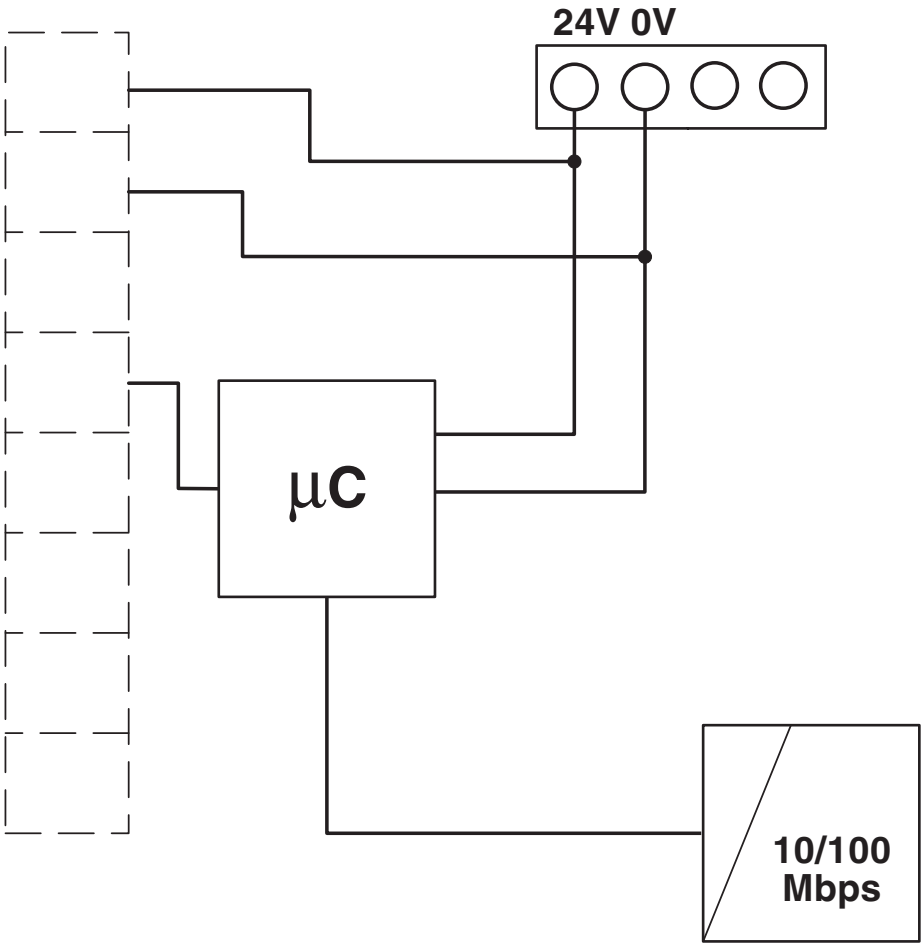
| | |
|---|---|
| Mounting type | DIN rail mounting |
| Assembly note | on standard DIN rail NS 35 in accordance with EN 60715 |
| Mounting position | any |
| Useable DIN rail type | DIN rail: 35 mm |

## Drawings

Dimensional drawing



Block diagram



## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27242208 |
| ECLASS-15.0 | 27242208 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | 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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