

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

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) |

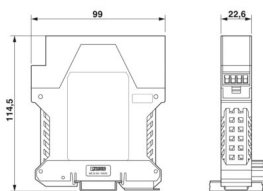
Data: Modbus/TCP, HART IP

| | |
|---------------------|---|
| 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 |

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| | |
|--------|----------|
| 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 | Ⓜ 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 |

GW PL ETH/BASIC-BUS - Ethernet HART multiplexer



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Drawings

Dimensional drawing



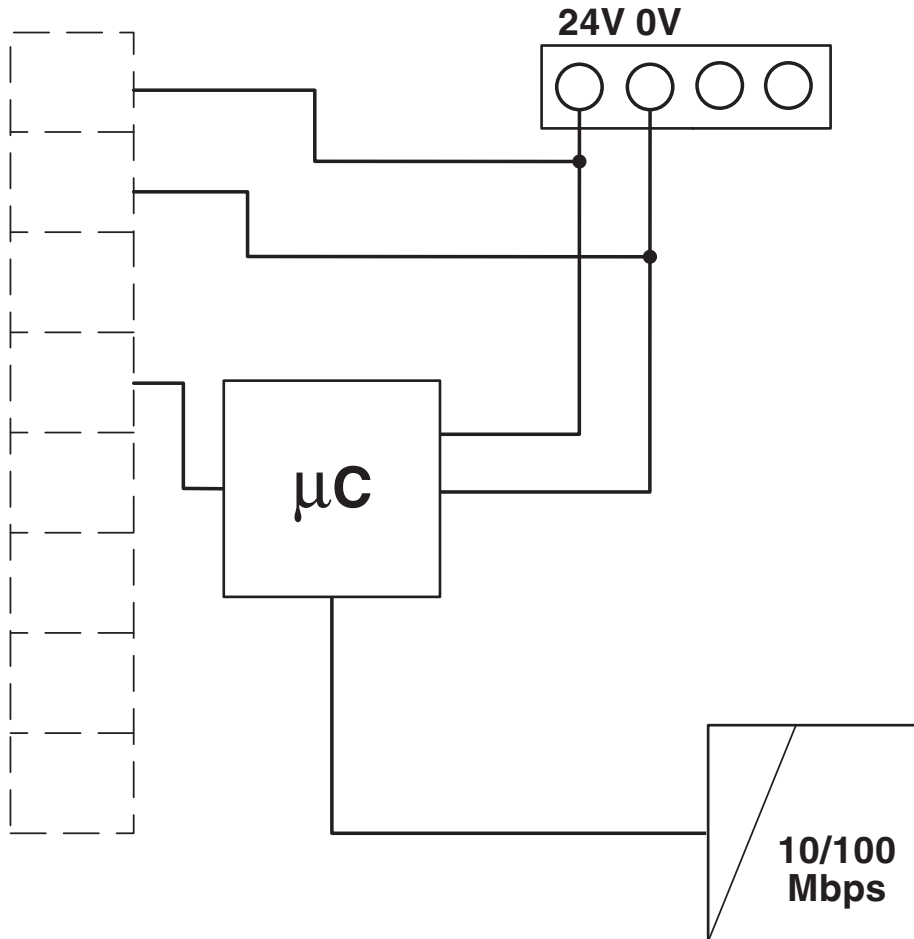
GW PL ETH/BASIC-BUS - Ethernet HART multiplexer



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Block diagram



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Approvals

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 **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

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Classifications

ECLASS

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

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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