

# GW PL DIO4-BUS - Protocol converter

2702237

<https://www.phoenixcontact.com/us/products/2702237>



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Four-channel digital input and four-channel digital output module with screw connection. For use with Modbus and OPC UA protocols.

## Commercial data

Item number	2702237
Packing unit	1 pc
Sales key	DN11
Product key	DNC322
Catalog page	Page 463 (C-6-2019)
GTIN	4055626067087
Weight per piece (including packing)	340 g
Weight per piece (excluding packing)	325 g
Customs tariff number	85176200
Country of origin	DE

# GW PL DIO4-BUS - Protocol converter

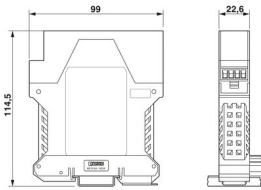


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## Technical data

### Dimensions

Dimensional drawing	
Width	22.5 mm
Height	99 mm
Depth	114.5 mm

### Notes

#### Utilization restriction

CCCex note	Use in potentially explosive areas is not permitted in China.
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### Material specifications

Color	gray
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### Interfaces

#### Data: Digital inputs

Connection method	Screw connection
No. of channels	4

### Input data

Voltage input signal	0 V ... 30 V
Switching level "0" signal	0 V DC ... 5 V DC
Switching level "1" signal	15 V DC ... 30 V DC

### Output data

#### Switching

Output name	Digital output
Number of outputs	4
Maximum switching voltage	30 V DC
Max. switching current	500 mA

### Product properties

Product type	I/O component
MTBF	406 Years (Siemens model SN29500, temperature 40°C, env. factor 1.5 and stress factor 50%)

### Electrical properties

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Test voltage data interface/power supply	500 V AC
Test voltage data interfaces	500 V AC

## Supply

Supply voltage range	19.2 V DC ... 30 V DC (supplied from the bus)
Typical current consumption	15 mA (at 24 V DC)

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 70 °C
	-40 °F ... 158 °F
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

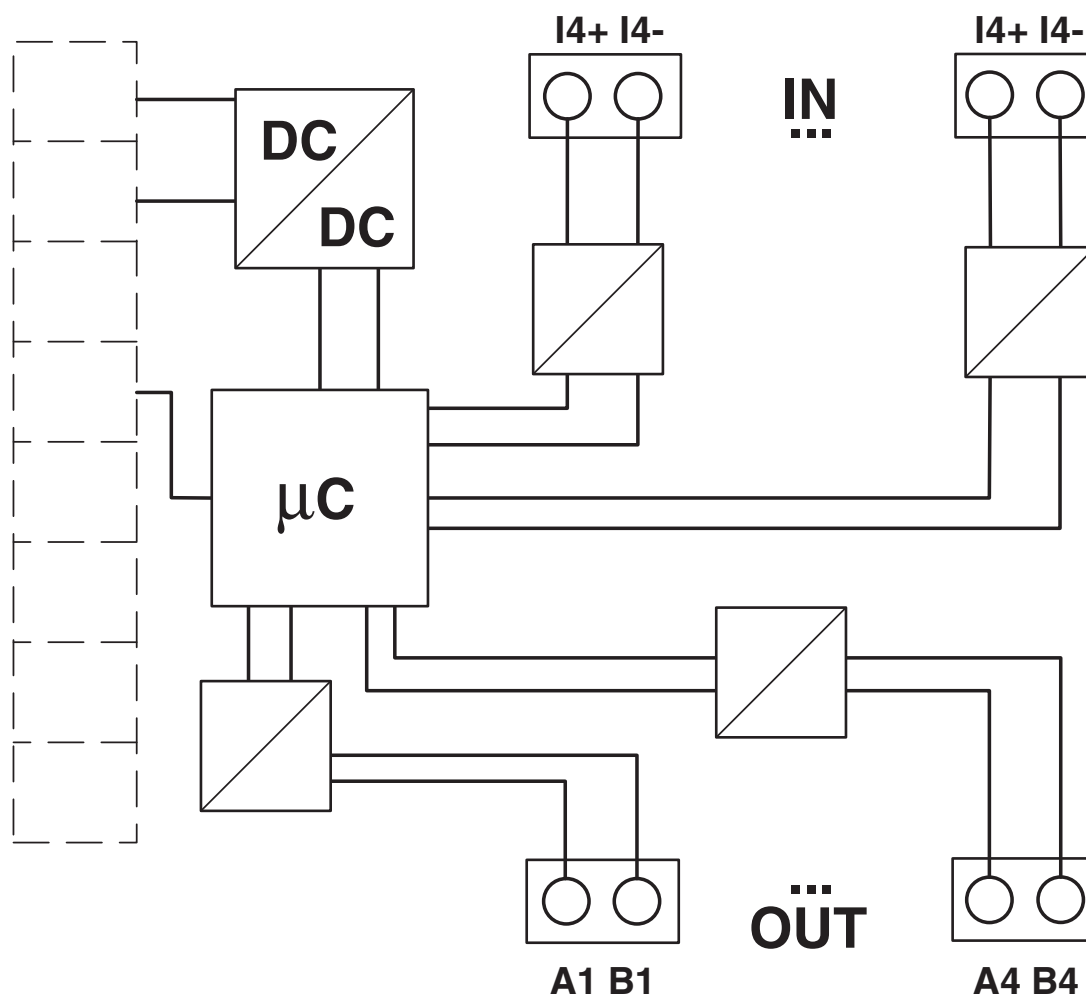
ATEX	Ⓔ II 3 G Ex nA IIC T4 Gc DEMKO 17 ATEX 1749X
IECEX	IECEX ULD 17.0020X Ex nA IIC T4 Gc
UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D

## Mounting

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

## Drawings

Block diagram



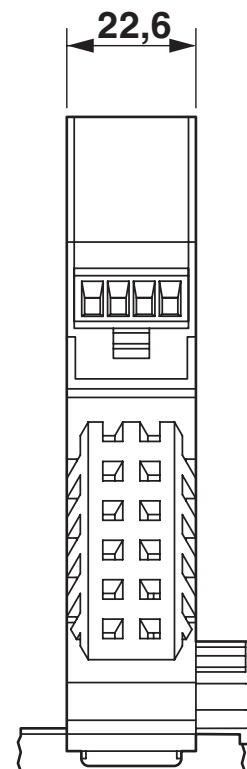
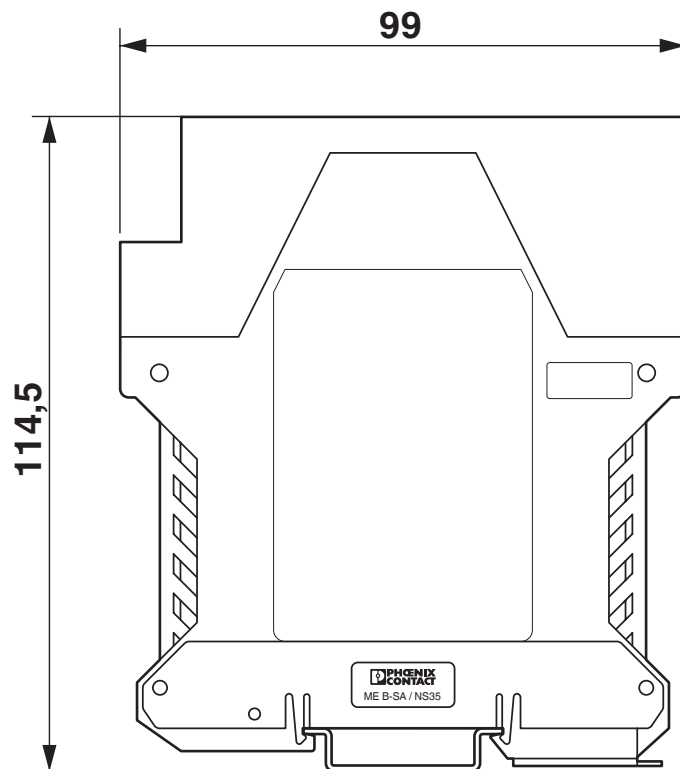
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Dimensional drawing



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2702237>



**UL Listed**

Approval ID: FILE E 238705



**cUL Listed**

Approval ID: FILE E 238705



**cUL Listed**

Approval ID: FILE E 196811



**UL Listed**

Approval ID: FILE E 196811



**IECEx**

Approval ID: IECEx ULD 17.0020X



**ATEX**

Approval ID: DEMKO 17 ATEX 1749X

**cULus Listed**

**cULus Listed**

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## 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



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## Mandatory accessories

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

2702233

<https://www.phoenixcontact.com/us/products/2702233>



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, OPC UA, PROFINET, HART IP, FDT/DTM and Arcom.

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

2702321

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



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.

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## Accessories

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## 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



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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 ETH/BASIC-BUS - Ethernet HART multiplexer

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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.

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## GW PL HART4-R-BUS - Protocol converter

2702879

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



Four-channel HART<sup>®</sup> 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<sup>®</sup> expansion module, with screw connection, with 250  $\Omega$  internal input resistors

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