

# GW PL DP/HART - Protocol converter



2316362

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HART to PROFIBUS DP protocol converter



## Product description

Protocol converter capable of connecting four HART (4-20 mA) devices to a PROFIBUS DP network

## Commercial data

Item number	2316362
Packing unit	1 pc
Sales key	DN11
Product key	DNC135
Catalog page	Page 462 (C-6-2019)
GTIN	4055626128306
Weight per piece (including packing)	274.3 g
Weight per piece (excluding packing)	267.3 g
Customs tariff number	85176200
Country of origin	US

## Technical data

### Notes

#### Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area
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### Product properties

Product type	Interface converter
Insulation characteristics	
Overvoltage category	II
Degree of pollution	2

### Electrical properties

#### Supply

Supply voltage range	18.5 V DC ... 30 V DC ()
Nominal supply voltage	24 V DC
Max. current consumption	75 mA
Connection method	COMBICON plug-in screw terminal block

### Connection data

#### Supply

Connection method	COMBICON plug-in screw terminal block
Conductor cross section, flexible	0.20 mm² ... 2.50 mm²
Conductor cross section, rigid	0.20 mm² ... 2.50 mm²
Conductor cross section AWG	24 ... 12
Tightening torque	0.5 Nm ... 0.6 Nm

### Interfaces

#### Data: PROFIBUS DP

Data rate	9.6 kbps (min.)
	12 Mbps (max.)
Number of connections	2
Connection method	D-SUB-9, COMBICON
No. of channels	1
Tightening torque	0.5 Nm ... 0.6 Nm
Connection technology	Screw connection
Termination resistor	390 Ω - 220 Ω - 390 Ω (switchable)
Conductor cross section flexible max.	2.5 mm²
Conductor cross section flexible min.	0.2 mm²
Conductor cross section, rigid max.	2.5 mm²

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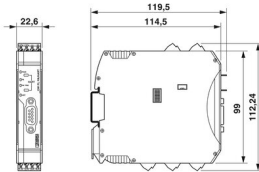
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Conductor cross section, rigid min.	0.2 mm <sup>2</sup>
Conductor cross section AWG max.	12
Conductor cross section AWG min.	24
Protocols supported	HART, PROFIBUS DP

## Data: HART FSK

Number of connections	3
Connection method	COMBICON
No. of channels	4 (Active/Passive HART devices)
Tightening torque	0.5 Nm ... 0.6 Nm
Connection technology	Screw connection
Conductor cross section flexible max.	2.5 mm <sup>2</sup>
Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section, rigid max.	2.5 mm <sup>2</sup>
Conductor cross section, rigid min.	0.02 mm <sup>2</sup>
Conductor cross section AWG max.	12
Conductor cross section AWG min.	24

## Dimensions

Dimensional drawing	
Width	22.5 mm
Height	99 mm
Depth	114.5 mm

## Material specifications

Color	gray
Housing material	PA V0

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	2000 m
Permissible humidity (operation)	95 % (non-condensing)
Shock	30g, 18 ms
Vibration (operation)	5g, 10 Hz ... 150 Hz

## Approvals

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## Ex data

ATEX	PRESAFE 16ATEX7686X, II 3G, Ex nA IIC T4 Gc
IECEX	IECEX PRE 16.0001X, Ex nA IIC T4 Gc
UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D Class I, Zone 2, AEx nA IIC T4, Ex nA IIC T4 GcX

## Mounting

Mounting type	DIN rail: 35 mm
Assembly instructions	on standard DIN rail NS 35 in accordance with EN 60715
Mounting position	On horizontal DIN rail NS 35 in acc. with EN 60715

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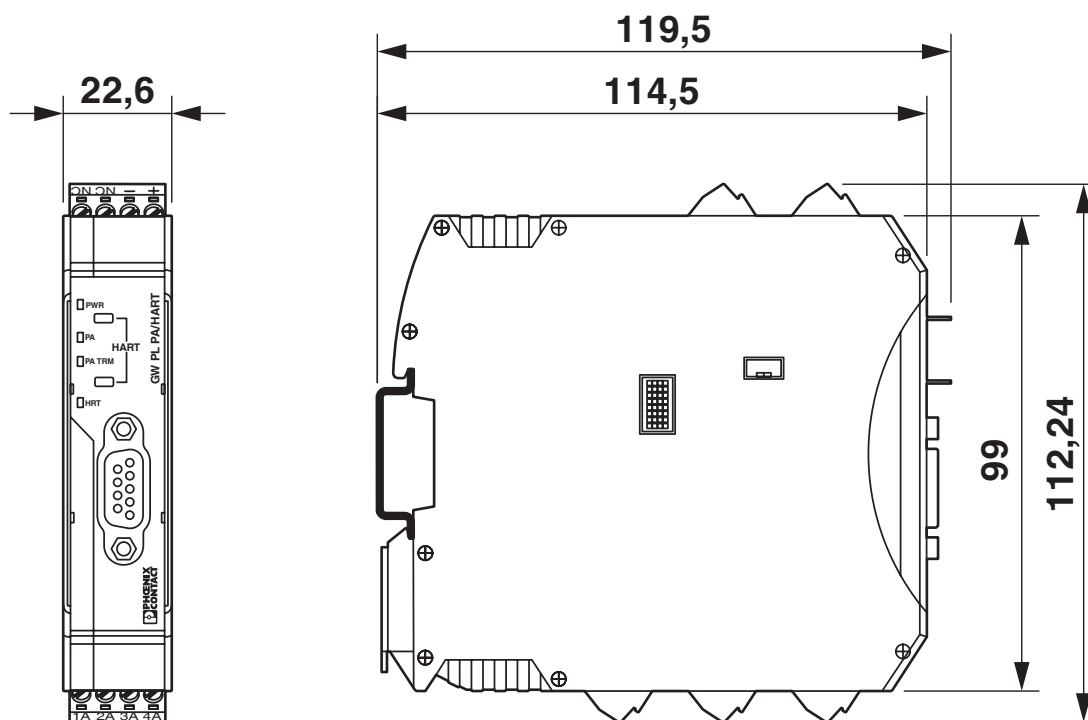
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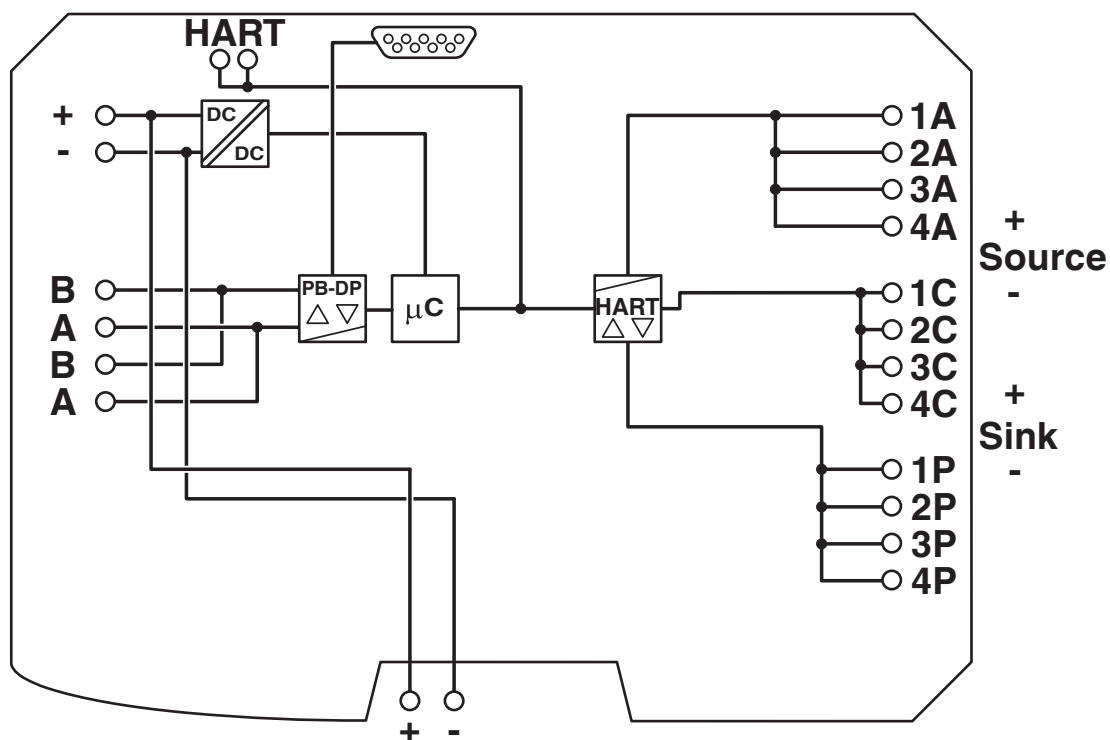


## Drawings

Dimensional drawing



Block diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2316362>



**IECEx**

Approval ID: IECEx PRE 16.0001X



**cUL Listed**

Approval ID: FILE E 199827



**UL Listed**

Approval ID: FILE E 199827



**ATEX**

Approval ID: Presafe 16ATEX7686X

**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 = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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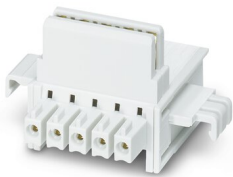


## Accessories

### ME 22,5 TBUS 1,5/ 5-ST-3,81 GY - DIN rail bus connectors

2201937

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DIN rail connector, color: gray, nominal current: 8 A (parallel contacts), rated voltage (III/2): 125 V, number of positions: 5, pitch: 3.81 mm, mounting: DIN rail mounting, locking: without, mounting: without, type of packaging: packed in cardboard, Item with gold-plated contacts, bus connectors for connecting with electronics housings, 5 parallel contacts

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### SUBCON-PLUS-PROFIB/90/IDC - D-SUB bus connector

2313672

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D-SUB connector, 9-pos., male connector, 90° cable entry, bus system: PROFIBUS DP up to 12 Mbps, termination resistor can be switched on via slide switch, pin assignment: 3, 5, 6, 8; IDC terminal block connection

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## SUBCON-PLUS-PROFIB/90/SC - D-SUB bus connector

2313698

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D-SUB connector, 9-pos., male connector, 90° cable entry, bus system: PROFIBUS DP up to 12 Mbps, termination resistor can be switched on via slide switch, pin assignment: 3, 5, 6, 8; screw connection terminal blocks

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## SUBCON-PLUS-PROFIB/90/PG/SC - D-SUB bus connector

2313708

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D-SUB connector, 9-pos., male connector, 90° cable entry, bus system: PROFIBUS DP up to 12 Mbps with PG D-SUB socket for connecting a programming device, termination resistor can be switched on via slide switch, pin assignment: 3, 5, 6, 8; screw connection terminal blocks

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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)