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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
Minimum order quantity	1 pc
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

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Technical data

Notes

Note on application

Note on application	Only for industrial use

Utilization restriction

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

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 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

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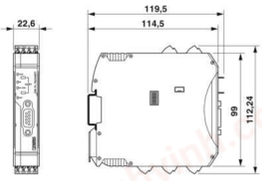
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Conductor cross section, rigid max.	2.5 mm²
Conductor cross section, rigid min.	0.2 mm²
Conductor cross section AWG max.	12
Conductor cross section AWG min.	24
Protocols supported	HART, PROFIBUS DP

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 mm²
Conductor cross section flexible min.	0.2 mm²
Conductor cross section, rigid max.	2.5 mm²
Conductor cross section, rigid min.	0.02 mm²
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

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Approvals

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 note	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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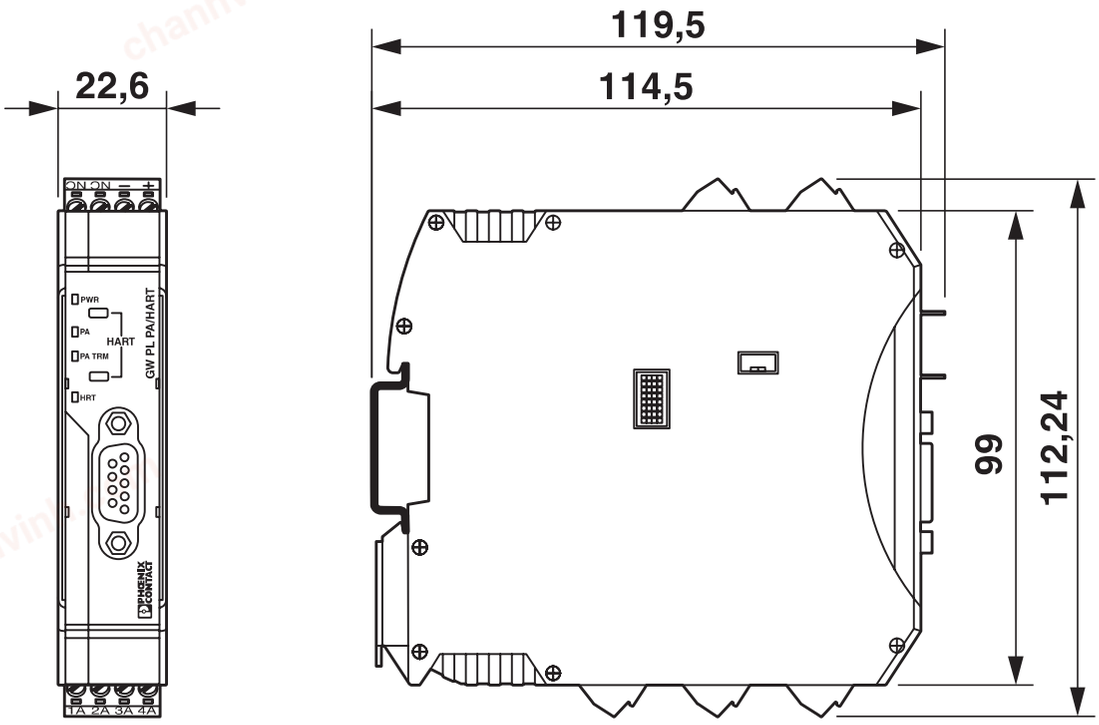
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Drawings

Dimensional drawing



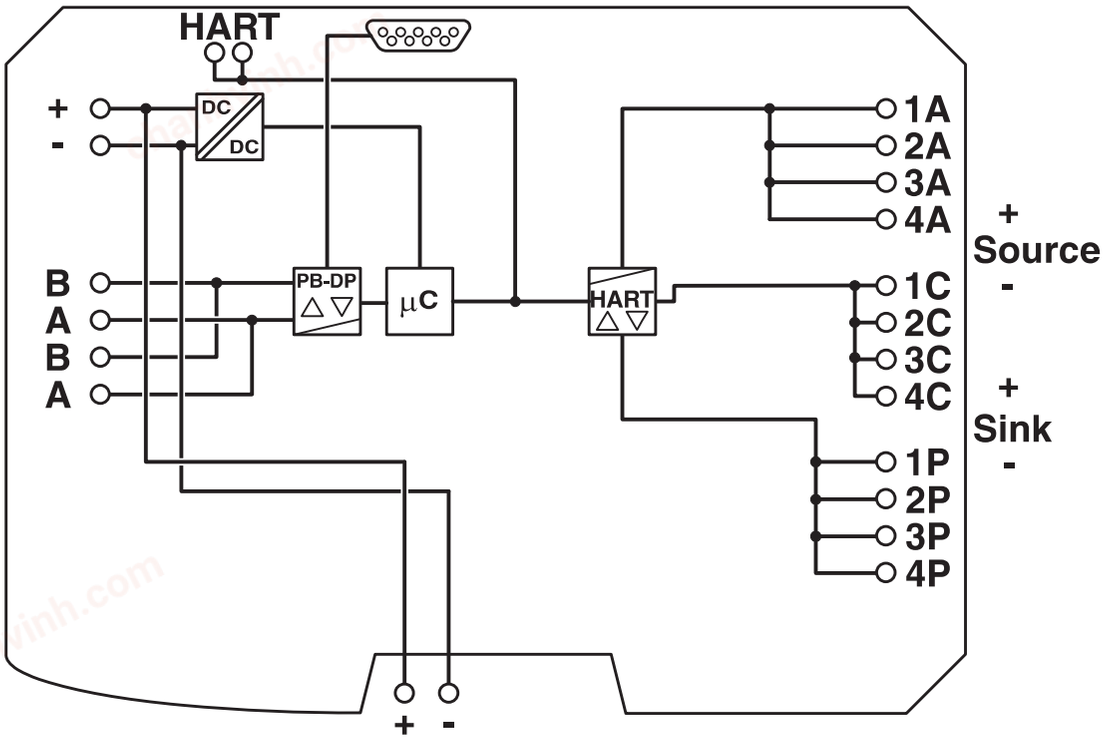
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Block diagram



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Approvals

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IECEx
Approval ID: IECEx PRE 16.0001X

cUL Listed
Approval ID: FILE E 199827

UL Listed
Approval ID: E199827

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 9.0	EC001423

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-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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