

# GW PL FF/MODBUS - Protocol converter



2316363

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Modbus/RTU to FOUNDATION Fieldbus protocol converter



## Product description

Protocol converter capable of connecting four Modbus/RTU devices to a FOUNDATION Fieldbus network

## Commercial data

Item number	2316363
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN11
Product key	DNC135
Catalog page	Page 462 (C-6-2019)
GTIN	4055626127392
Weight per piece (including packing)	205.8 g
Weight per piece (excluding packing)	203.1 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 V DC ... 30 V DC
Nominal supply voltage	24 V DC
Max. current consumption	34 mA

### Connection data

#### Supply

Connection method	COMBICON plug-in screw terminal block
Conductor cross section, flexible	0.20 mm <sup>2</sup> ... 2.50 mm <sup>2</sup>
Conductor cross section, rigid	0.20 mm <sup>2</sup> ... 2.50 mm <sup>2</sup>
Conductor cross section AWG	24 ... 12
Tightening torque	0.5 Nm ... 0.6 Nm

### Interfaces

Signal	Modbus
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#### Data: FOUNDATION Fieldbus

Data rate	31.25 kbps
Number of connections	1
Connection method	COMBICON
No. of channels	1
Tightening torque	0.5 Nm ... 0.6 Nm
Connection technology	Screw connection
Termination resistor	Switchable
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.	0.2 mm <sup>2</sup>

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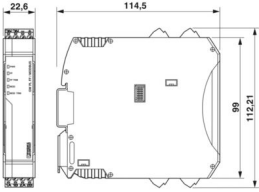
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Conductor cross section AWG max.	12
Conductor cross section AWG min.	24
Protocols supported	Modbus/RTU, FOUNDATION Fieldbus

## Data: Modbus/RTU

Transmission speed	1200 kbps (min.)
Data rate	115.2 kbps (max.)
Number of connections	2
Connection method	COMBICON
No. of channels	4 (Modbus/RTU devices)
Tightening torque	0.5 Nm ... 0.6 Nm
Connection technology	Screw connection
Termination resistor	Switchable
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)	0 % ... 95 % (non-condensing)
Shock	30g, 18 ms

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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 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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## Classifications

### ECLASS

ECLASS-11.0	27242208
ECLASS-12.0	27242208
ECLASS-13.0	27242208

### ETIM

ETIM 9.0	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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