

CLOUD IOT GATEWAY - IoT gateway



1031235

<https://www.phoenixcontact.com/pc/products/1031235>

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Cloud IoT gateway for integrating new and existing systems without additional engineering costs. Through simple process connection using protocols such as Modbus/TCP, sensor and process data can be collected, processed, and monitored in Proficloud. It is not suitable for Proficloud.io.

Your advantages

- Secure transmission, thanks to TLS (Transport Layer Security) encryption
- Easy configuration, thanks to web-based management
- Dashboard for easy visualization of sensor and processor data
- Various protocols supported, e.g. Modbus/TCP
- Robust hardware for use in the industrial environment
- Direct connection to the Proficloud, the open IoT platform
- Compact housing

Commercial data

Item number	1031235
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DREDHA
Catalog page	Page 20 (C-6-2019)
GTIN	4055626534169
Weight per piece (including packing)	192.8 g
Weight per piece (excluding packing)	144.5 g
Customs tariff number	85176200
Country of origin	DE

Technical data

Product properties

Product type	Gateways/Proxies
Type	Stand-Alone

Data management status

Article revision	03
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System properties

Processor	Arm®Cortex®-A8, 1x 600 MHz
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IoT capability: PROFICLOUD

IoT platform	PROFICLOUD
Supports cloud computing	yes

Electrical properties

Power consumption	typ. 5 W
Protective circuit	Polarity protection, surge protection
Transmission medium	Copper

Supply

Supply voltage (DC)	24 V DC -20 % / +15 %
Supply voltage range	18 V DC ... 30 V DC
Typical current consumption	200 mA

Real-time clock

Realtime clock	Yes
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Potentials

Supply voltage	24 V DC
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Connection data

Connection method	Push-in connection
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COMBICON connector

Connection method	Push-in connection
Conductor cross section, rigid	0.2 mm² ... 1.5 mm²
Conductor cross section, flexible	0.2 mm² ... 1.5 mm²
Conductor cross section AWG	24 ... 16
Stripping length	8 mm

Interfaces

Web server	yes
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RS-232

Connection method	COMBICON connectors
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Transmission physics	Copper
No. of channels	1
Protocols supported	Modbus/RTU (Master)

RS-485

Number of interfaces	1
Connection method	COMBICON connectors
Transmission physics	Copper
No. of channels	1
Protocols supported	Modbus/RTU

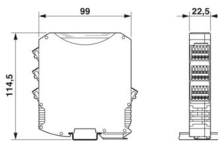
Ethernet

Number of interfaces	2
Connection method	RJ45
Transmission speed	100 Mbps
Transmission length	max. 100 m
Protocols supported	Modbus/TCP, HTTPS

Service

Number of interfaces	1
Connection method	USB type C
Note on the connection method	Female connector

Dimensions

Dimensional drawing	
Width	22.5 mm
Height	99 mm
Depth	114.5 mm

Material specifications

Color	gray
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20 (per manufacturer's declaration)
Ambient temperature (operation)	-25 °C ... 55 °C up to 2000 m above mean sea level
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	30 % ... 95 % (according to DIN EN 61131-2)
Permissible humidity (storage/transport)	5 % ... 95 %
Shock (operation)	10g (Bump endurance test according to DIN EN 60068-2-27)
Air pressure (operation)	70 kPa ... 106 kPa (up to 3000 m above sea level)

Air pressure (storage/transport)	58 kPa ... 106 kPa (up to 4500 m above mean sea level)
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EMC data

Conformance with EMC directives	Immunity test in accordance with EN 61000-6-2/IEC 61000-6-2 Electrostatic discharge (ESD)EN 61000-4-2/IEC 61000-4-2 Criterion B, ±6 kV contact discharge, ±8 kV air discharge
	Immunity test in accordance with EN 61000-6-2/IEC 61000-6-2 Electromagnetic fieldsEN 61000-4-3/IEC 61000-4-3 Criterion A, Field intensity: 10 V/m
	Immunity test in accordance with EN 61000-6-2/IEC 61000-6-2 Fast transients (burst)EN 61000-4-4/IEC 61000-4-4 Criterion B, ±2 kV
	Immunity test in accordance with EN 61000-6-2/IEC 61000-6-2 Transient overvoltage (surge)EN 61000-4-5/IEC 61000-4-5 Criterion B, DC supply lines: ±0.5 kV/±0.5 kV (symmetrical/asymmetrical), fieldbus cable shield: ±1 kV
	Immunity test in accordance with EN 61000-6-2/IEC 61000-6-2 Conducted interferenceEN 61000-4-6/IEC 61000-4-6 Criterion A, Test voltage 10 V
	Noise emission test in accordance with EN 61000-6-3/IEC 61000-6-3 Class B
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU

Mounting

Mounting type	DIN rail mounting
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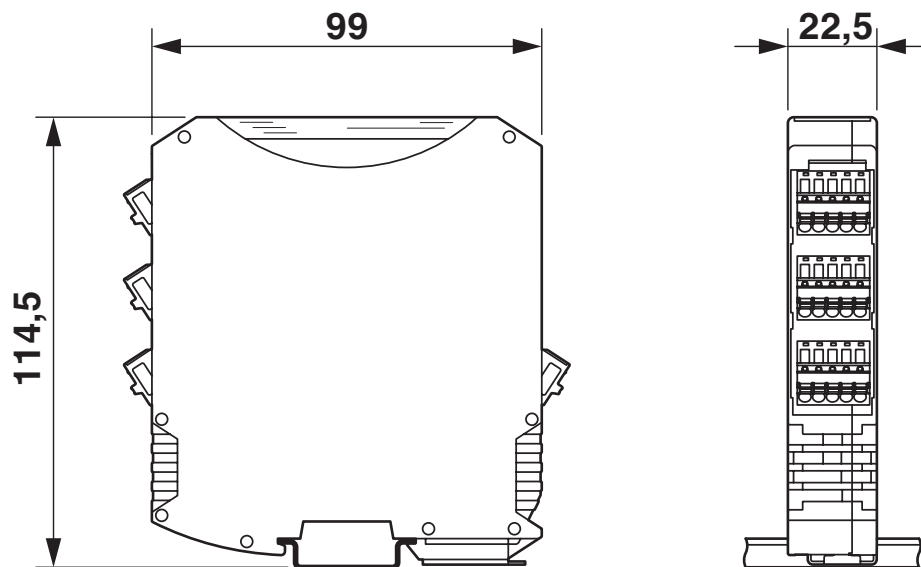
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Drawings

Dimensional drawing



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Approvals

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Classifications

ECLASS

ECLASS-11.0	27242608
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ETIM

ETIM 8.0	EC001604
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UNSPSC

UNSPSC 21.0	32151600
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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%