

RESYGATE 1000 - Protocol converter



2400128

<https://www.phoenixcontact.com/us/products/2400128>

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Protocol converter for up to 500 PV (process variables) for converting serial communication to Ethernet-based communication for modernizing or combining networks.

Product description

Resygate 1000 is a protocol converter for up to 500 PV (process variables). It converts serial and/or TCP-based remote control protocols into standard IEC 60870-5-104 and IEC 60870-5-101 Balanced protocols. Resygate functions as a universal protocol converter with network-capable process connection. In addition, it can be used as a protocol converter or substation for network-isolated connections between control systems.

Your advantages

- Protocol converter for 500 process variables
- 3 serial interfaces
- Connection of stations via GSM or UMTS
- Connect up to 18 serial terminal devices (depending on protocol)
- Converts the protocols IEC 60870-5-104, IEC 60870-5-101, Modbus/RTU, Modbus/TCP to IEC 60870-5-104 or IEC 60870-5-101
- Fail-safe thanks to four-fold software redundancy (one converter, four different control systems)
- Use IP address ranges more effectively by forming sub-networks
- Configure local stations easily using pre-installed software with automatic plausibility check

Commercial data

Item number	2400128
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DR12
Product key	DRBAAA
GTIN	4046356956208
Weight per piece (including packing)	1,876.6 g
Weight per piece (excluding packing)	1,400 g
Customs tariff number	84715000
Country of origin	TW

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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	Industrial PC
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Computer data

Processor	Intel® Atom™ N455 1.66 GHz
Operating system	Linux
RAM	2 GB DDR3 SODIMM
Data storage system	CompactFlash®, 4 GB
Cooling	passive
Slots	without slots
Optical drive	without drive

Display

Display type	without display
Screen resolution	without
Touch technology	Without touch technology
Display lighting type	without

System properties

Function

Supported remote control protocols	IEC 60870–5–101 Balanced Mode
	IEC 60870–5–101 Unbalanced Mode
	IEC 60870–5–104 Client
	IEC 60870–5–104 Server, max. 4 Client
	Modbus RTU Master
	Modbus TCP Master

Electrical properties

Service life of battery	5 years (typical)
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Supply

Power supply unit	24 V DC ±20 %
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Real-time clock

Realtime clock	Yes (battery-backed)
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Supply

Power consumption	12.48 W (typical, at 24 V)
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Interfaces

Interfaces	1x COM (RS-232/422/485)
	2x COM (RS-232)
	4x USB 2.0
Monitor output	1x VGA
Network	2x Ethernet (10/100/1000 Mbps), RJ45
LAN chipset	Realtek® 8111D PCI-E

Dimensions

Width	155 mm
Height	145 mm
Depth	49 mm

External dimensions

Width / Height / Depth	155 mm / 145 mm / 49 mm
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	0 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)
Shock	15g, 11 ms in accordance with IEC 60068-2-27
Vibration (operation)	DIN EN 60068-2-6

Mounting

Mounting type	DIN rail
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Environmental product compliance

EU REACH SVHC

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