

# 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 $\pm 20$ %
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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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