

# Protocol converter - RESYGATE 3000 - 2400129

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Protocol converter for up to 4000 PV (process variables) for converting serial communication to Ethernet-based communication for modernizing or combining networks.

## Product Description

Resygate 3000 is a protocol converter for up to 4000 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 4000 process variables
- ✔ 3 serial interfaces
- ✔ 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
- ✔ Connection of stations via GSM or UMTS
- ✔ Connect up to 18 serial terminal devices (depending on protocol)
- ✔ Configure local stations easily using pre-installed software with automatic plausibility check
- ✔ Use IP address ranges more effectively by forming sub-networks
- ✔ Fail-safe thanks to four-fold software redundancy (one converter, four different control systems)



## Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4046356956215

## Technical data

### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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### Display

Display	without display
Screen resolution	for without

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## Technical data

### Display

Backlighting	without
Touch technology	without

### Computer data

Processor	Intel® Celeron® N2930 1.83 GHz/2.16 GHz
Cooling	passive
Operating systems	Linux
RAM	2 GB DDR3 SODIMM
Mass storage	4 GB CFast® card
Network	2x Ethernet (10/100/1000 Mbps), RJ45
Interfaces	1x COM (RS-232/422/485)
	2x COM (RS-232)
	3x USB 2.0
	1x USB 3.0
Monitor output	2x DisplayPort
Slots	without slots
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
Optical drive	without drive
Realtime clock	Yes (battery-backed)
Service life of battery	5 years (typical)

### General

Mounting type	DIN rail mounting
Weight	1.4 kg

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-20 °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)
Vibration (operation)	DIN EN 60068-2-6
Shock	15g, 11 ms in accordance with IEC 60068-2-27

### Device supply

Power consumption	typical
Power supply unit	24 V DC ±20 %

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## Technical data

### Standards and Regulations

Shock	15g, 11 ms in accordance with IEC 60068-2-27
Vibration (operation)	DIN EN 60068-2-6

### Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Classifications

### eCl@ss

eCl@ss 5.1	27240601
eCl@ss 6.0	19200102
eCl@ss 7.0	19200102
eCl@ss 8.0	19200102
eCl@ss 9.0	19200101

### ETIM

ETIM 4.0	EC001413
ETIM 5.0	EC001413
ETIM 6.0	EC001413

### UNSPSC

UNSPSC 13.2	43211509
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## Approvals

### Approvals

#### Approvals

UL Listed / cUL Listed / cULus Listed

#### Ex Approvals

### Approval details

UL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 238705
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### Approvals

cUL Listed



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm> FILE E 238705

cULus Listed



### Accessories

#### Spare parts

Printed-circuit board connector - MSTB 2,5/ 3-STF - 1786844

PCB connector, nominal current: 12 A, rated voltage (III/2): 320 V, nominal cross section: 2.5 mm<sup>2</sup>, number of positions: 3, pitch: 5 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Tin



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