

RESYGATE 3000 - Protocol converter



2400129

<https://www.phoenixcontact.com/us/products/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
- 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
- 3 serial interfaces
- Connect up to 18 serial terminal devices (depending on protocol)
- Connection of stations via GSM or UMTS
- Fail-safe thanks to four-fold software redundancy (one converter, four different control systems)
- Configure local stations easily using pre-installed software with automatic plausibility check
- Use IP address ranges more effectively by forming sub-networks

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2400129 |
| Packing unit | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | DR12 |
| Product key | DRBABA |
| GTIN | 4046356956215 |
| Weight per piece (including packing) | 1.947 g |
| Weight per piece (excluding packing) | 1.9 g |
| Customs tariff number | 84715000 |
| Country of origin | TW |

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Technical data

Product properties

| | |
|--------------|---------------|
| Product type | Industrial PC |
|--------------|---------------|

Computer data

| | |
|---------------------|---|
| Processor | Intel® Celeron® N2930 1.83 GHz/2.16 GHz |
| Operating system | Linux |
| RAM | 2 GB DDR3 SODIMM |
| Data storage system | CFast®, 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) |
|-------------------------|-------------------|

Supply

| | |
|-------------------|---------------|
| Power supply unit | 24 V DC ±20 % |
|-------------------|---------------|

Real-time clock

| | |
|----------------|----------------------|
| Realtime clock | Yes (battery-backed) |
|----------------|----------------------|

Supply

| | |
|-------------------|---------|
| Power consumption | typical |
|-------------------|---------|

Interfaces

| | |
|------------|-------------------------|
| Interfaces | 1x COM (RS-232/422/485) |
| | 2x COM (RS-232) |
| | 3x USB 2.0 |

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| | |
|----------------|--------------------------------------|
| | 1x USB 3.0 |
| Monitor output | 2x DisplayPort |
| Network | 2x Ethernet (10/100/1000 Mbps), RJ45 |
| LAN chipset | Intel® 82573L |

Dimensions

| | |
|--------|----------|
| Width | 162 mm |
| Height | 146.2 mm |
| Depth | 49 mm |

Environmental and real-life conditions

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

Mounting

| | |
|---------------|-------------------|
| Mounting type | DIN rail mounting |
|---------------|-------------------|

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Classifications

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 43211508 |
|-------------|----------|

Environmental product compliance

EU RoHS

| | |
|---|--------|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 7(c)-I |

China RoHS

| | |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

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