

## Controller - RFC 470 PN 3TX - 2916600

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Remote Field Controller with 3x10/100 Ethernet, INTERBUS-Master, PROFINET-Controller, PROFINET device, IP20 degree of protection, pluggable parameterization memory

### Product description

#### Remote Field Controllers for Ethernet networks

When it comes to distributed, modular automation, Remote Field Controllers (RFC) with IEC 61131 control system intelligence and network connection are the ideal solution. Remote Field Controllers are compact, industrial PCs that provide networked, PC-based control performance on site with DIN rail mounting.

#### Integrated Ethernet connection

The integrated Ethernet network connections in RJ45 format ensure the important Ethernet connectivity.

The "DIN rail PCs" can be reached via Ethernet and TCP/IP by means of remote operation. Programming, operation, and visualization via the network enable innovative and cost-effective automation solutions.

When using the AX OPC server, standardized coupling with various visualization packages is also available via Ethernet.

Java Applet based user interfaces are created with WebVisit. The ready user interfaces are directly saved on the controller and can then be used with a web browser for operating a system or a machine. IEC 61131 controller performance

All Remote Field Controllers are seamlessly configured and programmed according to IEC 61131 using the PC WORX automation software. PC WORX can be operated locally at a serial interface or via the network (Ethernet).

The powerful processor can be programmed in all five IEC 61131 programming languages and ensures quick control task processing.

#### Ethernet communication

Using the IP communication blocks Send and Receive, information, e.g. necessary coupling variables, can be exchanged via Ethernet. The TCP and UDP protocols are supported. This enables distributed, modular automation solutions to be configured. Even time synchronization is possible via the Ethernet network.

#### PROFINET communication

The RFC has an integrated PROFINET controller. It can operate up to 100 lower-level PROFINET devices. It can also be operated as a PROFINET device in a higher-level system.

#### Diagnostic display

The large and clear display can be used to configure settings and diagnose error states in detail.

### Product Features

- ✓ Engineering with PC Worx (IEC 61131-3)
- ✓ Integrated Ethernet interface
- ✓ Numerous protocols supported such as: HTTP, FTP, SNTP, SNMP, SMTP, SQL, MySQL, etc.
- ✓ Integrated PROFINET controller and PROFINET device
- ✓ Complete fieldbus master (8192 I/O points)
- ✓ Flash file system
- ✓ FTP server
- ✓ Integrated web server for visualization with WebVisit

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### Key commercial data

|                                      |            |
|--------------------------------------|------------|
| Packing unit                         | 1 pc       |
| Weight per Piece (excluding packing) | 2180.0 GRM |
| Custom tariff number                 | 85371091   |
| Country of origin                    | Germany    |

### Technical data

#### Note

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

#### Dimensions

|        |        |
|--------|--------|
| Width  | 124 mm |
| Height | 185 mm |
| Depth  | 190 mm |

#### Ambient conditions

|  |   |
|--|---|
| Degree of protection                     | IP20  |
| Ambient temperature (operation)          | 0 °C ... 55 °C (from 45°C only with fan module)   |
| Ambient temperature (storage/transport)  | -25 °C ... 70 °C                                  |
| Permissible humidity (operation)         | 5 % ... 90 % (non-condensing)                     |
| Permissible humidity (storage/transport) | 5 % ... 90 % (non-condensing)                     |
| Air pressure (operation)                 | 80 kPa ... 108 kPa (up to 2000 m above sea level) |
| Air pressure (storage/transport)         | 66 kPa ... 108 kPa (up to 3000 m above sea level) |
| Shock                                    | 25g, Criterion 1, according to IEC 60068-2-27     |
| Vibration (operation)                    | 1g, Criterion 1, according to IEC 60068-2-6       |

#### Mechanical design

|                               |  |
|-------------------------------|--|
| Format                        | 124 x 185 x 190 mm (W x H x D without fan) |
|                               | 124 x 210 x 190 mm (W x H x D with fan)    |
| Weight                        | 1870 g                                     |
| Note on weight specifications | Without fan module                         |
| Weight                        | 2010 g                                     |
| Note on weight specifications | With fan module                            |

#### Data interfaces

|                   |                          |
|-------------------|--------------------------|
| Interface         | INTERBUS (Master)        |
| Connection method | D-SUB-9 female connector |

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## Technical data

### Data interfaces

|                    |   |
|--------------------|---|
| Transmission speed | 500 kBaud / 2 MBaud umschaltbar                                       |
| Interface          | Parameterization/operation/diagnostics                                |
| Connection method  | V.24 (RS-232-C), D-SUB male connector, 10/100 Ethernet (RJ45), 2x USB |
| Interface          | Ethernet  |
| Connection method  | 3x RJ45 sockets   |
| Transmission speed | 10/100 MBit/s   |

### IEC 61131 runtime system

|                            |  |
|----------------------------|--|
| Programming tool           | PC WORX                                |
| Processing speed           | 0.005 ms (1 K mix instructions)        |
|                            | 1 µs (1 K bit instructions)            |
| Program memory             | typ. 8 Mbyte (680 K instructions (IL)) |
| Mass storage               | 16 Mbyte                               |
| Retentive mass storage     | 240 kByte (NVRAM)                      |
| Number of data blocks      | depends on mass storage                |
| Number of timers, counters | depends on mass storage                |
| Number of control tasks    | 16                                     |
| Realtime clock             | Integrated (battery backup)            |

### Power supply

|                             |  |
|-----------------------------|--|
| Power supply connection     | Screw terminal blocks, plug-in           |
| Typical current consumption | 1 A                                      |
| Supply voltage              | 24 V DC                                  |
| Supply voltage range        | 19.2 V DC ... 30 V DC (including ripple) |
| Power dissipation           | <p></p>                                  |

### Fieldbus function

|  |   |
|--|---|
| Amount of process data                   | max. 8192 Bit (INTERBUS-Master)                             |
| Number of supported devices              | max. 512 (of which 254 are remote bus devices/bus segments) |
| Number of devices with parameter channel | max. 126  |
| Module classification                    | INTERBUS master   |
| Processing speed                         | 0.005 ms  |

### Direct I/Os

|                   |                       |
|-------------------|-----------------------|
| Input name        | Digital inputs        |
| Number of inputs  | 5                     |
| Connection method | 14-pos. FLK pin strip |
| Output name       | Digital outputs       |
| Number of outputs | 3                     |

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## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27240601 |
| eCl@ss 4.1 | 27240601 |
| eCl@ss 5.0 | 27242215 |
| eCl@ss 5.1 | 27242207 |
| eCl@ss 6.0 | 27242207 |
| eCl@ss 7.0 | 27242207 |

### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000236 |
| ETIM 3.0 | EC000236 |
| ETIM 4.0 | EC000236 |
| ETIM 5.0 | EC000236 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 43172015 |
| UNSPSC 7.0901 | 43201404 |
| UNSPSC 11     | 43172015 |
| UNSPSC 12.01  | 43201404 |
| UNSPSC 13.2   | 43201404 |

## Approvals

### Approvals

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Approvals

UL Listed / cUL Listed / cULus Listed

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Ex Approvals

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Approvals submitted

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### Approval details

|   |
|---|
| UL Listed  |
|---|

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### Approvals

cUL Listed 

cULus Listed 



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

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- Поставка более 17-ти миллионов наименований электронных компонентов;
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- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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