

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.

Your advantages

- ✓ Engineering with PC Worx (IEC 61131-3)
- ✓ Integrated Ethernet interface
- ✓ Numerous protocols supported such as: HTTP, FTP, 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



Key Commercial Data

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Packing unit	1 pc
GTIN	 4 046356 174114
GTIN	4046356174114

Technical data

Note

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

Control system

Engineering tool	PC WORX
Programming languages supported	Programming in acc. with IEC 61131-3
Diagnostics tool	DIAG+, version 2.00 or higher

IEC 61131 runtime system

Engineering tool	PC WORX
Program memory	typ. 8 Mbyte
Mass storage	16 Mbyte
Retentive mass storage	240 kByte (NVRAM)
Number of control tasks	16
Realtime clock	Integrated (battery backup)

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

Data interfaces

Interface	Ethernet
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Technical data

Data interfaces

Number	2
Connection method	RJ45 socket
Transmission speed	10/100 Mbps
Interface	Ethernet
Number	1
Connection method	RJ45 socket
Transmission speed	10/100 Mbps
Interface	INTERBUS (Master)
Number	1
Connection method	D-SUB-9 female connector
Transmission speed	500 kBaud / 2 MBaud (can be switched)
Interface	Parameterization/operation/diagnostics
Number	1
Connection method	D-SUB 9 plug

PROFINET

Device function	PROFINET controller, PROFINET device
Specification	Version 1.1
Update rate	min. 1 ms

Direct I/Os

Input name	Digital inputs
Number of inputs	5
Connection method	14-pos. FLK pin strip
Connection technology	FLK cable connector (14-pos.)
Output name	Digital outputs
Number of outputs	3
Connection method	14-pos. FLK pin strip

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	max. 24 W

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

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Technical data

Mechanical design

Diagnostics display	yes
Controller redundancy	No
Safety function	No

General data

Processor	Intel® Celeron® 927 UE 1.5 GHz
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Standards and Regulations

Vibration (storage/transport)	1g, Criterion 1, according to IEC 60068-2-6
Shock	25g, Criterion 1, according to IEC 60068-2-27
Vibration (operation)	1g, Criterion 1, according to IEC 60068-2-6

Environmental Product Compliance

REACH SVHC	1,2-dimethoxyethane,ethylene glycol dimethyl ether (EGDME) 110-71-4
	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Approvals

Approvals

Approvals

UL Listed / cUL Listed / EAC / cULus Listed

Ex Approvals

Approval details

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324
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cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324
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EAC		RU *- DE.A*30.B.00238
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Approvals

cULus Listed



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