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	

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

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approvals submitted

Approval details

UL Listed

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Approvals

cUL Listed

cULus Listed

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