

Safety controller - RFC 480S PN 4TX - 2404577

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Remote Field Controller with 4 x 10/100/1000 Ethernet, PROFINET controller with integrated PROFIsafe safety controller, PROFINET device, IP20 degree of protection, pluggable parameterization memory

Your advantages

- ✓ Operation of devices with the latest PROFIsafe profile
- ✓ Modern communication with SCADA systems, thanks to OPC UA
- ✓ Communication in up to three separate subnets
- ✓ Rapid processing of CPU-intensive applications
- ✓ Convenient operation via the touch display



Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 443966
GTIN	4055626443966
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
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Dimensions

Width	122 mm
	122 mm

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Technical data

Dimensions

Height	182 mm
	220 mm
Depth	173 mm
	173 mm
Note on dimensions	without fan module
	With fan module

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	0 °C ... 60 °C up to 2000 m above mean sea level (from 40 °C only with fan module)
	0 °C ... 55 °C 2000 m to 3000 m above mean sea level (With fan module only)
	0 °C ... 50 °C 3000 m to 4000 m above mean sea level (With fan module only)
Ambient temperature (storage/transport)	-25 °C ... 70 °C
Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)
Air pressure (operation)	60 kPa ... 108 kPa (up to 4000 m above mean sea level)
Air pressure (storage/transport)	58 kPa ... 108 kPa (up to 4500 m above mean sea level)

Mechanical design

Weight	2840 g
Note on weight specifications	without fan module
Diagnostics display	yes
Controller redundancy	No
Safety function	yes

Data interfaces

Interface	USB
Number	1
Connection method	USB type A, male connector
Interface	Ethernet
Number	4
Connection method	RJ45 jack
Transmission speed	10/100/1000 Mbps (100 Mbps (LAN 3.1 and LAN 3.2), 1000 Mbps (LAN 1, LAN 2))

IEC 61131 runtime system

Engineering tool	PC WORX
Program memory	typ. 16 Mbyte

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Technical data

IEC 61131 runtime system

Mass storage	32 Mbyte
Retentive mass storage	2 Mbyte
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	max. 24 W

Fieldbus function

Number of supported devices	max. 256
Program memory	typ. 16 Mbyte

General data

Processor	Intel® Core™ i5-6300U 2x 2.4 GHz (Dual-Core)
Operating system	Windows® Embedded Compact 7

Standards and Regulations

Vibration (operation)	1g (according to EN 60068-2-6/IEC 60068-2-6)
Shock (operation)	20g (according to EN 60068-2-27/IEC 60068-2-27)

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Classifications

eCl@ss

eCl@ss 10.0.1	27242207
eCl@ss 11.0	27242207
eCl@ss 4.0	27240601
eCl@ss 4.1	27240601
eCl@ss 5.0	27242700
eCl@ss 5.1	27242700
eCl@ss 6.0	27242200

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Classifications

eCl@ss

eCl@ss 7.0	27242207
eCl@ss 9.0	27242207

ETIM

ETIM 2.0	EC000236
ETIM 3.0	EC000236
ETIM 4.0	EC000236
ETIM 6.0	EC000236
ETIM 7.0	EC000236

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	39122114
UNSPSC 18.0	39122114
UNSPSC 19.0	39122114
UNSPSC 20.0	39122114
UNSPSC 21.0	39122114

Approvals

Approvals

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Functional Safety / UL Listed / cUL Listed / UL Listed / cUL Listed / Functional Safety

Ex Approvals

Approval details

Functional Safety		01/205/5649.00/18
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Approvals

UL Listed		http://database.ul.com/cgi-bin/XYVV/template/LISEXT/1FRAME/index.htm	FILE E 238705
cUL Listed		http://database.ul.com/cgi-bin/XYVV/template/LISEXT/1FRAME/index.htm	FILE E 238705
UL Listed		http://database.ul.com/cgi-bin/XYVV/template/LISEXT/1FRAME/index.htm	FILE E 238705
cUL Listed		http://database.ul.com/cgi-bin/XYVV/template/LISEXT/1FRAME/index.htm	FILE E 238705
Functional Safety			01/205/5649.00/18

Accessories

Accessories

Documentation

Quick start guide - UM QS DE SAFETYPROG - 2888628



Quick Start Guide, German, for SafetyProg

Quick start guide - UM QS EN SAFETYPROG - 2888631



Quick Start Guide, English, for SafetyProg

Safety controller - RFC 480S PN 4TX - 2404577

Accessories

Drivers and interfaces

Software - AX OPC SERVER - 2985945



AX OPC SERVER, communication interface for OPC-capable visualization with PC WORX-based controls.

Fan

Fan - RFC FAN MODULE - 2404085



Fan module for the RFC 480S PN 4TX and RFC 4072S Remote Field Controllers.

Parameterization memory

Memory - SD FLASH 512MB - 2988146



Program and configuration memory, plug-in, 512 Mbyte.

Program / configuration memory - SD FLASH 512MB APPLIC A - 2701799



Program and configuration memory for extending the internal Flash memory, plug-in, 512 MB with license key for function block libraries. For licensed function blocks, please refer to the documentation.

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Accessories

Memory - SD FLASH 512MB PDPI BASIC - 2701800



Program and configuration memory, plug-in, 512 MB with license key for licensing the PDPI - BASIC functional block for precise multi-channel controllers with self-optimization, e.g., for heating and cooling functions or hydraulic movements.

Memory - SD FLASH 512MB PDPI PRO - 2701801



Program and configuration memory, plug-in, 512 MB with license key for licensing the PDPI - PRO functional block for precise multi-channel controllers with self-optimization, additional functions: e.g., for setpoint processing, for heating and cooling functions.

Program / configuration memory - SD FLASH 2GB - 2988162



Program and configuration memory, for extending the internal flash memory, pluggable, 2 GB.

Program / configuration memory - SD FLASH 2GB APPLIC A - 2701190



Program and configuration memory for extending the internal Flash memory, plug-in, 2 GB with license key for function block libraries. For licensed function blocks, please refer to the documentation.

Programming

Software - PC WORX DEMO - 2985725



Software package for PC-based automation solutions. PC WORX DEMO contains all 5 IEC languages with MSFC compiler. Max. 16 bytes of input and output data can be used with the demo version. It is available free of charge and does not require a license key. It is part of the AUTOMATIONWORX Software Suite, which you can download under "Downloads".

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Accessories

Software - PC WORX BASIC LIC - 2985275



Software package for PC-based automation solutions, PC WORX BASIC license, contains all 5 IEC languages, without MSFC compiler, max. 2048 byte input and output data, version-specific license key

Software - PC WORX PRO LIC - 2985385



Software package for PC-based automation solutions, PC WORX PRO license, contains all 5 IEC languages, with MSFC compiler, max 128 kB input and output data, version-specific license key

Software - PC WORX PRO-MSFC LIC - 2985495



Software package for PC-based automation solutions, PC WORX PRO-MSFC license, contains all 5 IEC languages and MSFC compiler, max. 64 Kbytes IN, 64 Kbytes OUT, version-specific license key

Software - SAFETYPROG BASIC - 2700443



Programming software for INTERBUS-Safety systems and PROFIsafe controllers from Phoenix Contact, with graphical user interface according to IEC 61131-3 in function block diagram (FBD), ladder diagram (LD), and structured text (ST). One of the libraries from the corresponding PLCopen libraries (Basic_SF, MatHandling_SF, Muting_SF, SafeMode_SF, and TwoHand_SF) can be used per project.

Software - SAFETYPROG ADVANCED - 2700441



Programming software for INTERBUS-Safety systems and PROFIsafe controllers from Phoenix Contact, with graphical user interface according to IEC 61131-3 in function block diagram (FBD), ladder diagram (LD), and structured text (ST). Three of the libraries from the corresponding PLCopen libraries (Basic_SF, MatHandling_SF, Muting_SF, SafeMode_SF, and TwoHand_SF) can be used per project.

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Accessories

Software - SAFETYPROG PROFESSIONAL - 2700442



Programming software for INTERBUS-Safety systems and PROFIsafe controllers from Phoenix Contact, with graphical user interface according to IEC 61131-3 in function block diagram (FBD), ladder diagram (LD), and structured text (ST). All of the libraries from the corresponding PLCopen libraries (Basic_SF, MatHandling_SF, Muting_SF, SafeMode_SF, and TwoHand_SF) can be used per project.