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Remote field controller with 3 x 10/100 Ethernet, INTERBUS master, PROFINET controller with integrated PROFIsafe safety controller, PROFINET device, IP20 protection, plug-in parameterization memory

Your advantages

- ☑ Engineering with PC Worx (IEC 61131-3)
- Mumerous protocols supported such as: HTTP, FTP, SNTP, SNMP, SMTP, SQL, MySQL, etc.
- ☑ Integrated PROFINET controller and PROFINET device

- Integrated web server for visualization with WebVisit
- Safe analog value processing with SAFE AI and other components



Key Commercial Data

| Packing unit | 1 pc |
|--------------|-----------------|
| GTIN | 4 046356 436045 |
| GTIN | 4046356436045 |

Technical data

Note

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

Dimensions

| Width | 124 mm |
|--------|--------|
| | 124 mm |
| Height | 185 mm |
| | 210 mm |



Technical data

Dimensions

| Depth | 190 mm |
|--------------------|--------------------|
| | 190 mm |
| Note on dimensions | without fan module |
| | With fan module |

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) | 10 % 95 % (non-condensing) |
| Permissible humidity (storage/transport) | 5 % 95 % (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) |

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) |
|--|---|
| Number of supported devices | max. 512 (of which 254 are remote bus devices/bus segments) |
| Number of devices with parameter channel | max. 126 |
| Program memory | typ. 8 Mbyte |

Data interfaces

| 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 |
| Interface | Ethernet |
| Number | 3 |



Technical data

Data interfaces

| Connection method | RJ45 jack |
|--------------------|-------------|
| Transmission speed | 10/100 Mbps |

PROFINET

| Device function | PROFINET-Controller |
|-----------------|---------------------|
| 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 |
| Connection technology | FLK cable connector (14-pos.) |

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

| Weight | 2000 g |
|-------------------------------|--------------------|
| Note on weight specifications | without fan module |
| Weight | 2200 g |
| Note on weight specifications | with fan module |
| Diagnostics display | yes |
| Controller redundancy | No |
| Safety function | yes |

General data

| Processor | Intel® Celeron® 927 UE 1.5 GHz |
|-----------|--------------------------------|
|-----------|--------------------------------|

Standards and Regulations

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

Environmental Product Compliance

| REACh SVHC | Lead 7439-92-1 |
|------------|--|
| China RoHS | Environmentally Friendly Use Period = 50 years |



Technical data

Environmental Product Compliance

| For details about hazardous substances go to tab "Downloads", |
|---|
| Category "Manufacturer's declaration" |

Classifications

eCl@ss

| eCl@ss 10.0.1 | 27242207 |
|---------------|----------|
| eCl@ss 4.0 | 27240400 |
| eCl@ss 4.1 | 27240400 |
| eCI@ss 5.0 | 27242700 |
| eCl@ss 5.1 | 27242700 |
| eCl@ss 6.0 | 27242200 |
| eCl@ss 7.0 | 27242207 |
| eCl@ss 8.0 | 27242207 |
| eCl@ss 9.0 | 27242207 |

ETIM

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

Approvals

Functional Safety / UL Listed / cUL Listed / Functional Safety / EAC / cULus Listed



Approvals

Ex Approvals

Approval details

Functional Safety IFA 1003001

UL Listed

UL LISTED

http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm

FILE E 140324

cUL Listed



http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm

FILE E 140324

Functional Safety IFA 1001017

EAC



RU *-DE.A*30.B.00238

cULus Listed



Accessories

Accessories

Adapter

Adapter - PSM-AD-D9-NULLMODEM - 2708753



V.24 (RS-232) zero modem connector

Documentation



Accessories

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

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 DUAL-FAN - 2730239



Fan module for Remote Field Controllers RFC 430 ETH-IB / RFC 450 ETH-IB

Interface module

Passive module - FLKMS 14/8IM/LA/PLC - 2284536



VARIOFACE sensor module, for connecting 8 p-n-p sensors, with LED



Accessories

Memory - CF FLASH 256MB - 2988780



Program and configuration memory, plug-in, 256 MB

Memory - CF FLASH 256MB APPLIC A - 2988793



Program and configuration memory, plug-in, 256 MB with license key for function block libraries, e.g., for SNMP, SQL, wireless, motion functions, etc.

Memory - CF FLASH 256MB PDPI BASIC - 2700549



Program and configuration memory, plug-in, 256 MB with license key for licensing the PDPI - BASIC function block for precise multi-channel controllers with self-optimization, additional functions: e.g., for heating and cooling functions or hydraulic movements.

Memory - CF FLASH 256MB PDPI PRO - 2700550



Program and configuration memory, plug-in, 256 MB with license key for licensing the PDPI - PRO function block for precise multi-channel controllers with self-optimization, additional functions: e.g., for setpoint processing, for heating and cooling functions.

Programming

Software - PC WORX DEMO - 2985725





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 - 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.

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.

Programming cable



Accessories

Connecting cable - IBS PRG CAB - 2806862



Connection cable, to connect the controller boards to the PC (RS-232-C), length 3 m

Software library

Function block - SAFE AI - 2400057



Function block library for safety-related analog value acquisition with standard I/O modules. Please contact the safety hotline (+49 5281 9-462777) before ordering the SAFE AI article.

Software add-on - PC WORX TARGET FOR SIMULINK - 2400041



Software add-on for integration and execution of MATLAB/Simulink models on Remote Field and Axioline controllers

Storage medium

USB memory stick - USB FLASH DRIVE - 2402809



USB memory stick, 8 GB

System cable

Cable - FLK 14/EZ-DR/ 200/KONFEK - 2288930



Round cable set; connection 1: IDC/FLK socket strip (1x 14-position); connection 2: IDC/FLK socket strip (1x 14-position); cable length: 2 m



Accessories

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

Function block - SAFETYPROG2.X PLCOPEN BASIC - 2876067



Software library PLCopen Basic, PLCopen-conforming function block library to support the basic functionalities of safety engineering.

Software - SAFETYPROG2.X PLCOPEN TWOHAND - 2916846



Software library PLCopen TwoHand, PLCopen-compliant function block library, supports two-handed applications in safety engineering

Function block - SAFETYPROG 2.X MATHANDLING SF - 2985932



Function blocks for the conveying technology with the INTERBUS Safety system.

Software - SAFETYPROG2.X PLCOPEN MUTING - 2916862



Software library PLCopen Muting, PLCopen-conforming function block library to support the functionality of Muting of the safety engineering.



Accessories

Software - SAFETYPROG2.X PLCOPEN OSSD - 2916859



Software library PLCopen OSSD, PLCopen-conforming function block library, supports the electro-sensitive safety equipment in safety engineering

Software - SAFETYPROG2.X PLCOPEN SAFEMODE - 2916875



Software library PLCopen SafeMode, PLCopen-conforming function block library to support the functionality of SafeMode in safety engineering.

Necessary add-on products

Memory - CF FLASH 256MB - 2988780



Program and configuration memory, plug-in, 256 MB

Memory - CF FLASH 256MB APPLIC A - 2988793



Program and configuration memory, plug-in, 256 MB with license key for function block libraries, e.g., for SNMP, SQL, wireless, motion functions, etc.

Memory - CF FLASH 2GB - 2701185



Program and configuration memory, plug-in, 2 Gbytes.



Accessories

Memory - CF FLASH 2GB APPLIC A - 2701189



Program and configuration memory, plug-in, 2 Gbytes with license key for function block libraries, e.g., for: SNMP, SQL, wireless, motion functions, etc.

Memory - CF FLASH 256MB PDPI BASIC - 2700549



Program and configuration memory, plug-in, 256 MB with license key for licensing the PDPI - BASIC function block for precise multi-channel controllers with self-optimization, additional functions: e.g., for heating and cooling functions or hydraulic movements.

Memory - CF FLASH 256MB PDPI PRO - 2700550



Program and configuration memory, plug-in, 256 MB with license key for licensing the PDPI - PRO function block for precise multi-channel controllers with self-optimization, additional functions: e.g., for setpoint processing, for heating and cooling functions.

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