

RFC 450 ETH-IB - Controller



2730200

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Remote Field Controller with 1x10/100 Ethernet, INTERBUS-Master, IP20 degree of protection, pluggable parameterization memory (MC FLASH)

Product description

Remote Field Controllers for Ethernet networks

When it comes to distributed, modular automation, Remote Field Controllers (RFCs) with IEC 61131 control intelligence and network connection are the ideal solution. As compact industrial PCs, Remote Field Controllers provide networked, PC-based control performance locally on the DIN rail. Integrated Ethernet connection

The integrated Ethernet network connection (via twisted pair) ensures Ethernet connectivity, an increasingly important factor.

The "DIN rail PCs" can be accessed remotely via Ethernet and TCP/IP. Programming, operation, and visualization via the network enable innovative and cost-effective automation solutions.

When using the INTERBUS OPC server, a standardized coupling to the various visualization packages is also available via Ethernet.

IEC 61131 control performance

Remote Field Controllers are based on the international PC/104 standard for embedded PC systems. All Remote Field Controllers are configured and programmed consistently according to IEC 61131 using the PC Worx automation software. PC Worx can be operated locally on the 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

The integrated communication functions of the RFC ... ETH-IB modules enable direct and effective data exchange via Ethernet. The Ethernet TCP/IP protocol provides universal options for communicating with the Remote Field Controllers. The standardized transport protocol TCP/IP is used worldwide and is available for all computer architectures and operating systems.

With the INTERBUS OPC server, data is available in the Ethernet network in a standardized format.

Using the TCP/IP send and receive communication blocks according to standard IEC 61131-5, information such as necessary coupling variables can be exchanged between two Remote Field Controllers via Ethernet. This enables distributed, modular automation solutions to be configured.

Time synchronization is also possible via the Ethernet network.

Your advantages

- Complete fieldbus master (8192 I/O points)
- Flash file system
- Engineering with PC Worx (IEC 61131-3)
- Integrated Ethernet interface

Commercial data

Item number	2730200
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DR10
Product key	DRAABA
GTIN	4017918190316

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Weight per piece (including packing)	1,881.1 g
Weight per piece (excluding packing)	1,592.07 g
Customs tariff number	85371091
Country of origin	DE

Technical data

Notes

Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area
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Product properties

Product type	Controller
Type	Stand-alone

Insulation characteristics

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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Display

Diagnostics display	yes
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System properties

Retentive data storage	96 kByte (NVRAM)
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IEC 61131 runtime system

Program memory	typ. 8 Mbyte
Data storage system	16 Mbyte
Number of control tasks	16

INTERBUS-Master

Amount of process data	max. 8192 bit (INTERBUS-Master)
Amount of process data (INTERBUS input/output data max.)	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

Function

Diagnostics display	yes
Redundancy function	no

Local diagnostics

Designation	LINK, TRAFFIC (Ethernet)
Monitored function	Higher-level network
Optical representation	Diagnostics display

System requirements

Diagnostics tool	DIAG+ from version 1.14
Application interface	Device driver interface via TCP/IP sockets

Electrical properties

Local diagnostics	LINK, TRAFFIC (Ethernet) Higher-level network Diagnostics display
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RFC 450 ETH-IB - Controller



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	FCRUN, FCDBG IEC 61131 runtime system Diagnostics display
	INTERBUS Via four-line LCD
Maximum power dissipation for nominal condition	max. 20 W (Without fan module)
Transmission medium	Copper
Maximum power dissipation for nominal condition	max. 20 W (Without fan module)

Supply

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (including ripple)
Power supply connection	Screw terminal blocks, plug-in
Residual ripple	±5 %
Typical current consumption	1.5 A

Real-time clock

Realtime clock	Integrated (battery backup)
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Input data

Digital:

Input name	Digital inputs
Number of inputs	5
Connection method	Inline potential distributor
Connection technology	2-, 3-, 4-conductor

Output data

Digital:

Output name	Digital outputs
Connection method	Spring-cage connection
Connection technology	2-, 3-, 4-conductor
Number of outputs	3
Output voltage	24 V DC
Maximum output current per channel	500 mA

Connection data

Connection method	FLK14 pin strip
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Interfaces

INTERBUS (Master)

Bus system	RS-422
Number of interfaces	1
Connection method	D-SUB-9 female connector
Transmission speed	500 kBaud / 2 MBaud (can be switched)

Parameterization/operation/diagnostics

Bus system	RS-232
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Number of interfaces	1
Connection method	D-SUB 9 plug
Transmission physics	Copper
No. of channels	2

Ethernet

Bus system	RJ45
Number of interfaces	1
Connection method	RJ45 jack
Transmission speed	10/100 Mbps
No. of channels	1

Serial (RS-232)

Bus system	RS-232
Number of interfaces	1
Connection method	D-SUB 9 plug
Transmission speed	10/100 Mbps
Transmission physics	Copper

Dimensions

External dimensions

Width / Height / Depth	124 mm / 185 mm / 190 mm (without fan module)
	124 mm / 210 mm / 190 mm (With fan module)

Material specifications

Color	green (RAL 6021)
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Environmental and real-life conditions

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

Mounting

Mounting type	DIN rail mounting
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Environmental product compliance

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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