

RFC 450 ETH-IB - Controller



2730200

<https://www.phoenixcontact.com/us/products/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 |
|----------|---|

Product properties

| | |
|--------------|-------------|
| Product type | Controller |
| Type | Stand-alone |

Insulation characteristics

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

Display

| | |
|---------------------|-----|
| Diagnostics display | yes |
|---------------------|-----|

System properties

| | |
|------------------------|------------------|
| Retentive data storage | 96 kByte (NVRAM) |
|------------------------|------------------|

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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| | |
|---|---|
| | 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) |
|----------------|-----------------------------|

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 |
|-------------------|-----------------|

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) |
|-------|------------------|

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 |
|---------------|-------------------|

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. |
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EU REACH SVHC

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

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