

| Technical data | |
|--|--|
| Communication | Modbus TCP master/slave Modbus (UDP), WagoAppPlcModbus Library Modbus (RTU), WagoAppPlcModbus Library ETHERNET EtherNet/IP™ Adapter (slave) EtherNet/IP™ Scanner EtherCAT® Master OPC UA Server/Client OPC UA Pub/Sub (can be installed later) MQTT BACnet/IP, requires an additional license Telecontrol protocols, requires an additional license |
| ETHERNET protocols | DHCP DNS NTP FTP FTPS SNMP HTTP HTTPS SSH |
| Telecontrol protocols | IEC 60870 (additional license as slave or master) IEC 61850 (additional license as Client or Server) DNP3 (additional license as Slave or Master) |
| Visualization | Web-Visu |
| Operating system | Real-time Linux (with RT-Preempt patch) |
| CPU | Cortex A8; 1 GHz |
| Programming languages per IEC 61131-3 | Instruction List (IL) Ladder Diagram (LD) Function Block Diagram (FBD) Continuous Function Chart (CFC) Structured Text (ST) Sequential Function Chart (SFC) |
| Programming environment | CODESYS V3.5, Firmware Release 23 or higher e! COCKPIT (based on CODESYS V3) up to Firmware Release 22 WAGO-I/O-PRO V2.3 (based on CODESYS V2.3), up to Firmware Release 22 |
| Configuration options | CODESYS V3 e! COCKPIT WAGO-I/O-CHECK Web-Based Management e! RUNTIME library CODESYS Library |
| Baud rate (communication/fieldbus 1) | 10/100 Mbit/s |
| Baud rate | ETHERNET: 10/100 Mbit/s |
| Transmission medium (communication/fieldbus) | ETHERNET: Twisted pair S-UTP; 100 Ω; Cat. 5; 100 m maximum cable length |
| Main memory (RAM) | 512 MB |
| Internal memory (flash) | 4096 MB |
| Non-volatile hardware memory | 128 KB |
| Program memory | CODESYS V2: 16 MB; CODESYS V3: 32 MB |
| Data memory | CODESYS V2: 64 MB; CODESYS V3: 128 MB |
| Non-volatile software memory | 128 KB 128 KB |
| Type of memory card | SD and SDHC up to 32 GB (all guaranteed properties only valid with WAGO's memory card) |
| Memory card slot | Push-push mechanism; cover lid (sealable) |
| Number of modules per node (max.) | 64 |
| Input and output process image (internal) max. | 1000 words/1000 words |
| Input and output process image (Modbus®) max. | CODESYS V2: 1000 words/1000 words; CODESYS V3: 32000 words/32000 words |
| Indicators | LED (SYS, RUN, I/O, U1 ... U7) red/green/orange: Status of system, program, local data bus, status programmable by user (can be used via CODESYS library); LED (A, C) green: Status of system power supply, field supply |
| Derating | Derating (supply voltage): Ambient temperatures under laboratory conditions: (-25 ... +30 %); for -40 ... +55 °C: 24 V (-25 ... +20 %); for +55 ... +70 °C: 24 V (-25 ... +10 %); Lower limit in all temperature ranges: -27.5 % (including 15 % residual ripple) |
| Supply voltage (system) | 24 VDC; via pluggable connector (CAGE CLAMP® connection); Derating must be observed! |
| Input current (typ.) at nominal load (24 V) | 500 mA |
| Total current (system supply) | 1700 mA |

Technical data

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|---|---|
| Supply voltage (field) | 24 VDC; Power supply via pluggable connector (CAGE CLAMP® connection); Transmission via power jumper contacts; Derating must be observed! |
| Current carrying capacity (power jumper contacts) | 10 A |
| Number of outgoing power jumper contacts | 2 |
| Rated surge voltage | 1 kV |

Connection data

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|---|--|
| Connection technology: communication/fieldbus | Modbus (TCP, UDP): 4 x RJ-45 |
| Connection technology: system supply | 2 x CAGE CLAMP® |
| Connection technology: field supply | 4 x CAGE CLAMP® |
| Connection type 1 | System/field supply |
| Solid conductor | 0.25 ... 2.5 mm ² / 24 ... 14 AWG |
| Fine-stranded conductor | 0.25 ... 2.5 mm ² / 24 ... 14 AWG |
| Strip length | 8 ... 9 mm / 0.31 ... 0.35 inches |
| Connection technology: device configuration | 1 x Male connector; 4-pole |

Physical data

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|-----------------------------------|------------------------|
| Width | 78.6 mm / 3.094 inches |
| Height | 100 mm / 3.937 inches |
| Depth | 71.9 mm / 2.831 inches |
| Depth from upper-edge of DIN-rail | 64.7 mm / 2.547 inches |

Mechanical data

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|--------------------|------------------------------|
| Weight | 226.3 g |
| Housing material | Polycarbonate; polyamide 6.6 |
| Conformity marking | CE |

Environmental requirements

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| Ambient temperature (operation) | -40 ... +70 °C |
| Ambient temperature (storage) | -40 ... +85 °C |
| Protection type | IP20 |
| Pollution degree | 2 per IEC 61131-2 |
| Operating altitude | without temperature derating: 0 ... 2000 m; with temperature derating: 2000 ... 5000 m (0.5 K/100 m); 5000 m (max.) |
| Relative humidity (without condensation) | 95 % |
| Relative humidity (with condensation) | Short-term condensation per Class 3K7/IEC EN 60721-3-3 and E-DIN 40046-721-3 (except for wind-driven precipitation, water and ice formation) |
| Mounting position | horizontal (standing/lying); vertical |
| Mounting type | DIN-35 rail |
| Vibration resistance | per IEC 60068-2-6 (acceleration: 5g), EN 60870-2-2, IEC 60721-3-1, -3, EN 50155; EN 61373 |
| Shock resistance | per IEC 60068-2-27 (15g/11 ms/half-sine/1,000 shocks; 25g/6 ms/1,000 shocks), EN 50155, EN 61373 |
| EMC immunity to interference | per EN 61000-6-1, -2; EN 61131-2; marine applications; EN 50121-3-2; EN 50121-4, -5; EN 60255-26; EN 60870-2-1; EN 61850-3; IEC 61000-6-5; IEEE 1613; VDEW: 1994 |
| EMC emission of interference | per EN 61000-6-3, -4, EN 61131-2, EN 60255-26, marine applications, EN 60870-2-1, EN 61850-3, EN 50121-3-2, EN 50121-4, -5 |
| Exposure to pollutants | per IEC 60068-2-42 and IEC 60068-2-43 |
| Fire load | 2.541 MJ |

Commercial data

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|-----------------------|---------------|
| ETIM 8.0 | EC000236 |
| ETIM 7.0 | EC000236 |
| PU (SPU) | 1 pcs |
| Country of origin | DE |
| GTIN | 4066966054019 |
| Customs tariff number | 85371091990 |

Environmental Product Compliance

| | |
|---|--|
| CAS-No. | 1303-86-2 1317-36-8 693-98-1 7439-92-1 79-94-7 |
| REACH Candidate List Substance | 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol 2-methylimidazole Diboron trioxide Lead Lead monoxide Perfluorobutane sulfonic acid (PFBS) and its salts |
| RoHS Compliance Status | Compliant,With Exemption |
| RoHS Exemption | 6(c) 7(a) 7(c)-I 7(c)-II |
| SCIP notification number (Austria) | ad05bb10-3826-40ee-82c0-756ee1ee428a |
| SCIP notification number (Belgium) | 4e5e27e4-c11b-4bf2-b3cd-fc55ff910f23 |
| SCIP notification number (Bulgaria) | 9b75d2fd-a8b6-4e80-822f-de625140435f |
| SCIP notification number (Czech Republic) | 6dbfe2f5-fb9f-4826-be5f-2f04060dfefb |
| SCIP notification number (Denmark) | cd71dcf2-0d38-4698-8fa1-ed5483f439f2 |
| SCIP notification number (Finland) | 6e3ba2ec-443a-4687-a63f-bb4eb54b034d |
| SCIP notification number (France) | 298f84eb-81c1-44c7-9db5-f352be9f8acc |
| SCIP notification number (Germany) | 07d63bca-e41b-402e-a011-701a5a4bff68 |
| SCIP notification number (Hungary) | 80a60acd-223b-4ffa-9756-e094846dc4ea |
| SCIP notification number (Italy) | 645b8ad8-9bd8-4fc6-bbf5-7c88fad18c7f |
| SCIP notification number (Netherlands) | c8022f8a-d0cd-4d1f-9d75-339943d8c53a |
| SCIP notification number (Poland) | 9ded8546-6489-4d70-9410-8bd4ed48fb56 |
| SCIP notification number (Romania) | b21ba00c-0df2-4115-ab15-5c1b10a90382 |
| SCIP notification number (Sweden) | a0b3b48a-17bd-42a2-a960-fe2e90440c32 |

Approvals / Certificates

General approvals



| Approval | Standard | Certificate Name |
|---|------------------------|---------------------------------|
| EAC Brjansker Zertifizierungs- stelle | TP TC 020/2011 | EAC RU C-DE.AM02. B.00087/19 |
| KC National Radio Research Agency | Article 58-2, Clause 3 | MSIP-REM-W43-PFC750 |
| UL Underwriters Laboratories Inc. (ORDINARY LOCATI- ONS) | - | E175199 |

Declarations of conformity and manufacturer's declarations

| Approval | Standard | Certificate Name |
|---|----------|------------------|
| EU-Declaration of Confor- mity WAGO GmbH & Co. KG | - | - |

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product
Compliance
750-8210/040-000



Documentation

Manual

Product Manual 1.9.0 / FW 25 pdf
PFC200; G2; 4ETH; XTR 23.06.2023 4527.97 KB



System Description

Controller PFC200 XTR, pdf
General Product Infor- 489.22 KB
mation



Additional Information

WAGO OPC UA Server V 1.1.0 pdf
28.01.2021 1132.87 KB



Bid Text

750-8210/040-000 xml
11.00 KB



750-8210/040-000 docx
19.14 KB



CAD/CAE-Data

CAD data

2D/3D Models
750-8210/040-000



CAE data

EPLAN Data Portal
750-8210/040-000



ZUKEN Portal
750-8210/040-000



Engineering-Software

Configuration and Commissioning Software

(759-316) WAGO Ether- 06.18.01.01 zip
net Settings / Serie 750 02.09.2021 26678.54 KB



WAGOUpload 1.16.1.0 zip
02.02.2022 12111.45 KB



Runtime Software

Firmware

Image Update (SD Kar- V 22 SP1 zip
te) PFC100/200 für Co- 12.12.2022 205815.20 KB
desys V2.3 u. Elcockpit



PFC200, Firmware Up- V 23 zip
date für CoDeSys V3.5 24.02.2023 167985.38 KB



WUP Update (WAGOU- V 22 SP1 zip
ploadTool) PFC100/200 12.12.2022 203580.70 KB
Codesys V2.3 u. El
cockpit



1 Compatible Products

1.1 Optional Accessories

1.1.1 Communication

1.1.1.1 Communication cable



Item No.: 750-923

Configuration cable; USB connector;
Length: 2.5 m

Item No.: 750-923/000-001

Configuration cable; USB connector;
Length: 5 m

1.1.2 DIN-rail

1.1.2.1 Mounting accessories



Item No.: 210-196

Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored

Item No.: 210-198

Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored

Item No.: 210-508

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715; silver-colored

Item No.: 210-197

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored



Item No.: 210-506

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715; silver-colored

Item No.: 210-114

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored

Item No.: 210-118

Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored

Item No.: 210-115

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 18 mm; silver-colored



Item No.: 210-112

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 25 mm; silver-colored

Item No.: 210-504

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715; silver-colored

Item No.: 210-113

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored

Item No.: 210-505

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715; silver-colored

1.1.3 Marking

1.1.3.1 Group marker carrier



Item No.: 750-107

Group marker carrier

1.1.3.2 Marker



Item No.: 2009-145/000-006

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue

Item No.: 2009-145/000-007

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray

Item No.: 2009-145/000-023

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green

Item No.: 2009-145/000-012

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange



Item No.: 2009-145/000-005

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red

Item No.: 2009-145/000-024

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet

Item No.: 2009-145

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

Item No.: 2009-145/000-002

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow



Item No.: 248-501/000-006

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; blue

Item No.: 248-501/000-007

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; gray

Item No.: 248-501/000-023

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; green

Item No.: 248-501/000-017

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; light green

1.1.3.2 Marker



Item No.: 248-501/000-012

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; orange



Item No.: 248-501/000-005

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; red



Item No.: 248-501/000-024

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; violet



Item No.: 248-501

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white



Item No.: 248-501/000-002

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow

1.1.3.3 Marker carrier



Item No.: 750-103

Group marker carrier

1.1.4 Memory card

1.1.4.1 Memory card



Item No.: 758-879/000-2108

Memory Card SD; pSLC-NAND; 8 GB; Temperature range: -40 to 90°C



Item No.: 758-879/000-001

Memory Card SD; SLC-NAND; 2 GByte; Temperature from -40 to 90 °C

1.1.5 Shield termination

1.1.5.1 Shield clamping saddles



Item No.: 790-108

Shield clamping saddle; 11 mm wide; diameter of compatible conductor; 3 ... 8 mm



Item No.: 790-208

Shield clamping saddle; 12.4 mm wide; 3 ... 8 mm



Item No.: 790-116

Shield clamping saddle; 19 mm wide; diameter of compatible conductor; 7 ... 16 mm



Item No.: 790-216

Shield clamping saddle; 21.8 mm wide; 6 ... 16 mm



Item No.: 790-124

Shield clamping saddle; 27 mm wide; diameter of compatible conductor; 6 ... 24 mm



Item No.: 790-220

Shield clamping saddle; 30 mm wide; 6 ... 20 mm



Item No.: 790-140

Shield clamping saddle; diameter of compatible conductor

1.1.6 Software

1.1.6.1 Basic version



Item No.: 2759-101/1110-4000

e!COCKPIT; Buy-out License



Item No.: 2759-101/1110-2005

e!COCKPIT; Multi-User License; 05 pcs



Item No.: 2759-101/1110-2010

e!COCKPIT; Multi-User License; 10 pcs



Item No.: 2759-101/1110-2015

e!COCKPIT; Multi-User License; 15 pcs



Item No.: 2759-101/1110-2020

e!COCKPIT; Multi-User License; 20 pcs



Item No.: 2759-101/1110-3000

e!COCKPIT; Site License



Item No.: 2759-101/1110-2002

e!COCKPIT; Workstation License



Item No.: 759-333

WAGO-I/O-PRO



Item No.: 759-333/000-923

WAGO-I/O-PRO; USB-Set

1.1.6.2 Software application



Item No.: 2759-2015/260-1000
Application Grid Gateway; Single License

Item No.: 2759-2015/261-1000
Application Grid Gateway; Single License;
Online activation

Item No.: 2759-120/1121-1000
e!COCKPIT MTP; Single License; Online
activation

Item No.: 2759-245/211-1000
Library Controller Redundancy Master;
Single License; Online activation



Item No.: 2759-208/211-1000
Library MTP; Single License; Online activa-
tion

1.1.7 System enclosure

1.1.7.1 System enclosure



Item No.: 850-825
IP65 enclosure; Aluminium (RAL 7032);
WxHxD (160x100x160 mm); 9 x M12, 4 x
M20



Item No.: 850-826
IP65 enclosure; Aluminium (RAL 7032);
WxHxD (240x100x160 mm); 4 x M20, 4 x
M16, 14 x M12 cable grip



Item No.: 850-827
IP65 enclosure; Aluminium (RAL 7032);
WxHxD (320x100x160 mm); 4 x M20, 8 x
M16, 17 x M12 cable grip



Item No.: 850-828
IP65 enclosure; Aluminium (RAL 7032);
WxHxD (480x100x160 mm); 4 x M20, 10 x
M16, 35 x M12 cable grip



Item No.: 850-826/002-000
IP65 enclosure; Aluminium (RAL 7035);
WxHxD (240x100x160 mm); 4 x M20, 4 x
M16, 14 x M12 cable grip



Item No.: 850-827/002-000
IP65 enclosure; Aluminium (RAL 7035);
WxHxD (320x100x160 mm); 4 x M20, 8 x
M16, 17 x M12 cable grip



Item No.: 850-828/002-000
IP65 enclosure; Aluminium (RAL 7035);
WxHxD (480x100x160 mm); 4 x M20, 10 x
M16, 35 x M12 cable grip



Item No.: 850-834
IP65 enclosure; Polyester (RAL 7032); Wx-
HxD (164x100x164 mm); 9 x M12, 4 x M20



Item No.: 850-835
IP65 enclosure; Polyester (RAL 7032); Wx-
HxD (244x100x164 mm); 4 x M20, 4 x
M16, 14 x M12 cable grip



Item No.: 850-836
IP65 enclosure; Polyester (RAL 7032);
WxHxD (324x100x164 mm); 4 x M20, 8 x
M16, 17 x M12 cable grip



Item No.: 850-814/002-000
IP65 enclosure; Sheet steel (RAL 7035);
WxHxD (200x120x200 mm); without flan-
ge plate



Item No.: 850-815/002-000
IP65 enclosure; Sheet steel (RAL 7035);
WxHxD (300x120x200 mm); without flan-
ge plate



Item No.: 850-816/002-000
IP65 enclosure; Sheet steel (RAL 7035);
WxHxD (400x120x200 mm); without flan-
ge plate



Item No.: 850-817/002-000
IP65 enclosure; Sheet steel (RAL 7035);
WxHxD (600x120x200 mm); without flan-
ge plate