

| Technical data | |
|--|--|
| Communications | 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 PREEMPT_RT 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 |
| Transmission 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 |
| Non-volatile software memory | 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.) | 250 |
| Number of modules without a bus extension (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 |
| Drift – system clock (25 °C) | 20 ppm |
| Drift – Real Time Clock (25 °C) | 3 ppm |
| RTC backup time (25 °C) | 30 days |
| 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 |
| Supply voltage (system) | 24 VDC (-25 ... +30 %); via pluggable connector (CAGE CLAMP® connection) |
| Input current (typ.) at nominal load (24 V) | 550 mA |
| Total current (system supply) | 1700 mA |
| Supply voltage (field) | 24 VDC (-25 ... +30 %); via power jumper contacts |

Technical data

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|---|--------------------|
| Current carrying capacity (power jumper contacts) | 10 A |
| Number of outgoing power jumper contacts | 3 |
| Isolation | 500 V system/field |

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 | 6 x CAGE CLAMP® |
| Connectable conductor materials | Copper |
| Connection type | System/field supply |
| Solid conductor | 0.08 ... 2.5 mm ² / 28 ... 14 AWG |
| Fine-stranded conductor | 0.08 ... 2.5 mm ² / 28 ... 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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|---------------|-------------|
| Mounting type | DIN-35 rail |
|---------------|-------------|

Material data

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|--------------------|------------------------------|
| Housing material | Polycarbonate; polyamide 6.6 |
| Fire load | 2.108 MJ |
| Weight | 216.2 g |
| Conformity marking | CE |

Environmental requirements

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|--|---|
| Ambient temperature (operation) | -20 ... +60 °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.) |
| Mounting position | Horizontal left, horizontal right, horizontal top, horizontal bottom, vertical top and vertical bottom |
| Relative humidity (without condensation) | 95 % |
| Vibration resistance | 4g per IEC 60068-2-6 |
| Shock resistance | 15g per IEC 60068-2-27 |
| EMC immunity to interference | per EN 61000-6-2, marine applications |
| EMC emission of interference | per EN 61000-6-3, marine applications |
| Exposure to pollutants | per IEC 60068-2-42 and IEC 60068-2-43 |
| Permissible H ₂ S contaminant concentration at a relative humidity 75 % | 10 ppm |
| Permissible SO ₂ contaminant concentration at a relative humidity 75 % | 25 ppm |

Commercial data

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|-----------------------|---------------|
| PU (SPU) | 1 pcs |
| Packaging type | Box |
| Country of origin | DE |
| GTIN | 4055143981156 |
| Customs tariff number | 85371091990 |

Product Classification

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|-----------|----------------------|
| UNSPSC | 32151705 |
| ETIM 9.0 | EC000236 |
| ETIM 10.0 | EC000236 |
| ECCN | NO US CLASSIFICATION |

Environmental Product Compliance

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|---|--|
| 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) | 1fb11c43-d0eb-4d24-9c77-732e0b0a4a4d |
| SCIP notification number (Belgium) | fa7bc339-ed12-4bf2-b748-ffd41a52be8c |
| SCIP notification number (Bulgaria) | 8a609291-f9d9-450a-b26b-29bddc9074d7 |
| SCIP notification number (Czech Republic) | 8022f9bf-d398-4393-9d82-f15b261addd0 |
| SCIP notification number (Denmark) | fd511ae9-edeb-4e1a-92af-78e5510fd3ef |
| SCIP notification number (Finland) | 1e027263-a1a5-428a-bc19-bcc75a3e40f3 |
| SCIP notification number (France) | c1889adb-d510-49c1-aea0-57d89cf6832 |
| SCIP notification number (Germany) | 24686e9c-93ec-4b17-8f96-fbd2f1be1da3 |
| SCIP notification number (Hungary) | 09ea0929-a414-46c2-b23c-8b13f78cfaec |
| SCIP notification number (Italy) | f7c2317e-190b-4da8-b321-d5216e4f0105 |
| SCIP notification number (Netherlands) | c9870d6b-1328-4939-83ee-9c91aff2e17d |
| SCIP notification number (Poland) | 1cf268d3-8e51-47bd-8f10-ca2c05c5f245 |
| SCIP notification number (Romania) | 57faaa0d-5e3e-4871-8240-4eb7a74901fe |
| SCIP notification number (Sweden) | ee6d693e-bb79-42ae-a072-3701eed8117e |

Approvals / Certificates

General approvals

| | | |
|--|--|---------|
| | General approvals UL Underwriters Laboratories Inc. (ORDINARY LOCATI- ONS) | E175199 |
|--|--|---------|

| Approval | Standard | Certificate Name |
|---|------------------------|---------------------|
| EAC GZO Almaty Standart | TP TC 020/2011 | EAC CoC 03083 |
| KC National Radio Research Agency | Article 58-2, Clause 3 | MSIP-REM-W43-PFC750 |

Declarations of conformity and manufacturer's declarations

| Approval | Standard | Certificate Name |
|--|----------|------------------|
| EU-Declaration of Conformity WAGO GmbH & Co. KG | - | - |
| UK-Declaration of Conformity WAGO GmbH & Co. KG | - | - |

Approvals for marine applications



| Approval | Standard | Certificate Name |
|---|-----------------------|-------------------|
| BSH Bundesamt fuer Seeschifffahrt und Hydrographie | - | 1104 |
| DNV DNV Germany GmbH | DNV-CG-0339, Aug.2021 | TAA00001J4 |
| PRS Polski Rejestr Statków | - | TE/1102/880590/23 |

Downloads

Environmental Product Compliance

| Compliance Search |
|--|
| Environmental Product Compliance 750-8210/025-000 ↓ |

Documentation

| Manual | | | |
|---|--|-------------------|-------------------|
| Function Manual for PFC100 2nd Generation, PFC200 2nd Generation and PFC300 | 3621366155 5 en-US 2026-02-03 07:08 06.02.2026 | pdf 2460.24 KB | ↓ |
| Product Manual PFC200; G2; 4ETH | 2324826635 2 en-US 8/6/2024 10:00 07.08.2024 | pdf 3335.59 KB | ↓ |
| System Manual Series 750/753 ↓ | | | |
| Product Manual OPC UA Mapping Editor | V 1.1.0 11.03.2022 | pdf 3314.23 KB | ↓ |
| OPC-UA Mapping Editor ↓ | | | |
| Migration Guide | 2023631499 9 en-US 2026-01-15 14:41 20.01.2026 | pdf 2705.60 KB | ↓ |
| Migrationsleitfaden von e!COCKPIT-Projekten zu CODESYS V3.5 ↓ | | | |

| System Description | | |
|--|------------------|-------------------|
| Overview on WAGO-I/O-SYSTEM 750 approvals | pdf 770.48 KB | ↓ |
| Controller PFC100/200, General Product Information | pdf 578.66 KB | ↓ |

Additional Information

| | | | |
|--------------------|-----------------------|-------------------|-------------------|
| WAGO OPC UA Server | V 1.1.0 28.01.2021 | pdf 1132.87 KB | ↓ |
|--------------------|-----------------------|-------------------|-------------------|

Bid Text

| | | |
|------------------|------------------|-------------------|
| 750-8210/025-000 | xml 10.07 KB | ↓ |
| 750-8210/025-000 | docx 18.68 KB | ↓ |

CAD/CAE-Data

| CAD data | CAE data |
|----------------------------------|---------------------------------------|
| 2D/3D Models 750-8210/025-000 | EPLAN Data Portal 750-8210/025-000 |
| | ZUKEN Portal 750-8210/025-000 |

Engineering-Software

| Configuration and Commissioning Software | | | |
|---|---------------------------|---------------------|--|
| CODESYS V3.5 | | png 315.13 KB | |
| WAGO-IO-PRO Demo-Version (759-912) / Serie 750, 758 und 762 | V 2.3.9.68 17.02.2022 | zip 122524.17 KB | |
| (759-316) WAGO Ethernet Settings / Serie 750 | 06.18.01.01 02.09.2021 | zip 26678.54 KB | |
| WAGOupload | 1.16.1.0 02.02.2022 | zip 12111.45 KB | |

Runtime Software

| Firmware | | | |
|--|------------------------|---------------------|--|
| Image Update (SD Karte) PFC100/200 für Codesys V2.3 u. Elcockpit | V 22 SP1 12.12.2022 | zip 205815.20 KB | |
| PFC200, Firmware Update für CoDeSys V3.5 | V 23 24.02.2023 | zip 167985.38 KB | |
| WUP Update (WAGOuploadTool) PFC100/200 Codesys V2.3 u. Elcockpit | V 22 SP1 12.12.2022 | zip 203580.70 KB | |

1 Compatible Products

1.1 Product Expansions

1.1.1 Runtime software

| | | | |
|--|--|--|---|
| Item No.: 2759-2283/211-1000 Runtime; BACnet; 300; M; Single License; Online activation | Item No.: 2759-2273/211-1000 Runtime; BACnet; 300; S; Single License; Online activation | Item No.: 2759-283/211-1000 Runtime; BACnet; 300; Single License; Online activation | Item No.: 2759-2293/211-1000 Runtime; DNP3 Master; M; Single License; Online activation |
| Item No.: 2759-2290/211-1000 Runtime; DNP3 Slave; Single License; Online activation | Item No.: 2759-293/211-1000 Runtime; IEC60870 Master; M; Single License; Online activation | Item No.: 2759-290/211-1000 Runtime; IEC60870 Slave; Single License; Online activation | Item No.: 2759-2243/211-1000 Runtime; IEC61850 Client; M; Single License; Online activation |
| Item No.: 2759-2240/211-1000 Runtime; IEC61850 Server; Single License; Online activation | Item No.: 2759-248/211-1000 Runtime; Multi Cloud Connectivity; Single License; Online activation | Item No.: 2759-247/211-1000 Runtime; Sparkplug; Single License; Online activation | |

1.2 Optional Accessories

1.2.1 Cables and connectors

1.2.1.1 Connector plug



Item No.: 750-979/000-011
Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568A; AWG 22; Strain relief



Item No.: 750-979/000-021
Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568A; AWG 24; Strain relief



Item No.: 750-979/000-012
Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 22; Strain relief



Item No.: 750-979/000-022
Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 24; Strain relief



Item No.: 750-977/000-011
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22



Item No.: 750-978/000-011
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22; Strain relief



Item No.: 750-977/000-021
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24



Item No.: 750-978/000-021
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24; Strain relief



Item No.: 750-977/000-012
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22



Item No.: 750-978/000-012
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22; Strain relief



Item No.: 750-977/000-022
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24



Item No.: 750-978/000-022
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24; Strain relief



Item No.: 750-975
ETHERNET RJ-45 connector, IP20; ETHERNET 10/100 Mbit/s; for field assembly

1.2.2 Communication

1.2.2.1 Communication cable



Item No.: 750-923/000-001
Configuration cable; USB connector; Length: 5 m

1.2.3 DIN-rail

1.2.3.1 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.: 210-197
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored



Item No.: 210-114
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.: 210-113
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored

1.2.4 Marking

1.2.4.1 Group marker carrier



Item No.: 750-107
Group marker carrier

1.2.4.2 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



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



1.2.4.3 Marker carrier



Item No.: 750-103
Group marker carrier

1.2.5 Memory card

1.2.5.1 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

1.2.6 Shield termination

1.2.6.1 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

1.2.7 Software

1.2.7.1 Software Application



Item No.: 2759-2015/261-1000

Application Grid Gateway; Single License; Online activation



Item No.: 2759-245/211-1000

Library Controller Redundancy Master; Single License; Online activation

1.2.8 System enclosure

1.2.8.1 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); WxHxD (164x100x164 mm); 9 x M12, 4 x M20



Item No.: 850-835

IP65 enclosure; Polyester (RAL 7032); WxHxD (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 flange plate



Item No.: 850-815/002-000

IP65 enclosure; Sheet steel (RAL 7035); WxHxD (300x120x200 mm); without flange plate



Item No.: 850-816/002-000

IP65 enclosure; Sheet steel (RAL 7035); WxHxD (400x120x200 mm); without flange plate



Item No.: 850-817/002-000

IP65 enclosure; Sheet steel (RAL 7035); WxHxD (600x120x200 mm); without flange plate