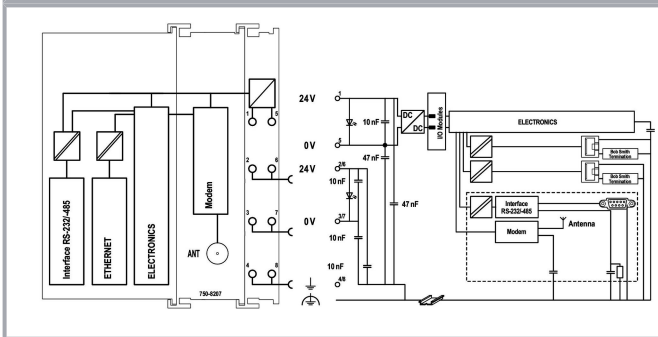
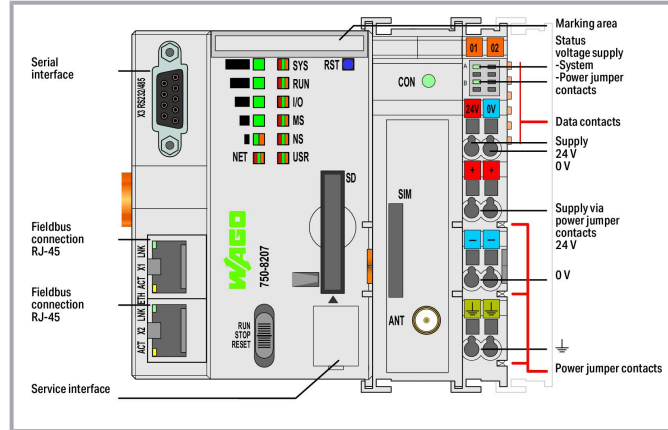


Controller PFC200; 2 x ETHERNET, RS-232/-485, Mobile Radio Module;  
Telecontrol technology; Ext. Temperature

[www.wago.com/750-8207/025-001](http://www.wago.com/750-8207/025-001)



Color:



**X** This item has been discontinued.

### Item description

The PFC200 Controller is a compact PLC for the modular WAGO I/O System. Besides network and fieldbus interfaces, the controller supports all digital, analog and specialty I/O modules found within the 750/753 Series.

Subject to changes. Please also observe the further product documentation!

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Two ETHERNET interfaces and an integrated switch enable line topology wiring. The controller's mobile radio module sends and receives SMS and provides wireless Internet connectivity.

An integrated Webserver provides user configuration options, while displaying PFC200 status information.

Besides standard machinery and equipment control, as well as building automation, typical applications for the PFC200 include decentralized data logging for the process industry.

Programming per IEC 61131-3

- Programmable via WAGO-I/O-PRO V2.3
- Direct connection of WAGO's I/O modules
- 2 x ETHERNET (configurable), RS-232/485
- Linux operating system with RT-Preempt patch
- Configuration via CODESYS or Web-Based Management interface
- Maintenance-free

## Data

### Technical data

|                                       |  |
|---------------------------------------|--|
| Communication                         | Modbus (TCP, UDP)<br>ETHERNET<br>Modbus® RTU<br>RS-232 serial interface<br>RS-485 interface<br>Telecontrol protocols<br>MQTT |
| ETHERNET protocols                    | DHCP<br>DNS<br>NTP<br>FTP<br>FTPS<br>SNMP<br>HTTP<br>HTTPS<br>SSH  |
| Telecontrol protocols                 | IEC 60870-5-101/-103/-104<br>IEC 61400-25<br>IEC 61850-7<br>DNP3   |
| Visualization                         | Web-Visu   |
| Operating system                      | Real-time Linux (with RT-Preempt patch)  |
| CPU                                   | Cortex A8; 600 MHz   |
| Programming languages per IEC 61131-3 | Instruction List (IL)<br>Ladder Diagram (LD)   |

Subject to changes. Please also observe the further product documentation!



|  |  |
|--|--|
|  | Function Block Diagram (FBD)<br>Structured Text (ST)<br>Sequential Function Chart (SFC)  |
| Programming environment                          | WAGO-I/O-PRO V2.3 (based on CODESYS V2.3)<br><i>e!COCKPIT</i> (based on CODESYS V3)  |
| Configuration options                            | <i>e!COCKPIT</i><br>WAGO-I/O-CHECK<br>Web-Based Management<br><i>e!RUNTIME</i> library<br>CODESYS Library  |
| Security encryption                              | OpenVPN, IPsec, firewall   |
| Services   | SMS (bidirectional)<br>GPRS connection to Internet   |
| Radio technology                                 | GSM/Edge/UMTS/HSPA+  |
| Frequency band                                   | GSM quad-band  |
| 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)                                | 256 MB   |
| Internal memory (flash)                          | 256 MB   |
| Non-volatile hardware memory                     | 128 Kbytes   |
| Program memory                                   | 16 MB  |
| Data memory                                      | 64 MB  |
| Non-volatile software memory                     | 128 Kbytes   |
| Type of memory card                              | SD and SDHC up to 32 GB (all guaranteed properties only valid with WAGO 758-879/000-001 Memory Card)   |
| Memory card slot                                 | Push-push mechanism; Cover lid (sealable)  |
| SIM card type                                    | Mini-SIM   |
| SIM card slot                                    | Push-push mechanism  |
| 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  |
| Indicators                                       | LED (SYS, RUN, I/O, USR, S1–S5, NET) red/green/orange: System status, program, local data bus, status programmable by user (can be used via CODESYS library); signal strength S1–S5, network status; LED (CON, A, B) green: Mobile network status, system power supply status, field supply status |
| Supply voltage (system)                          | 24 VDC (-25 ... +30 %); via pluggable connector (CAGE CLAMP® connection)   |

Subject to changes. Please also observe the further product documentation!



|   |   |
|---|---|
| Input current (typ.) at nominal load (24 V)       | 550 mA  |
| Total current (system supply)                     | 700 mA  |
| Supply voltage (field)                            | 24 VDC (-25 ... +30 %); via power jumper contacts |
| Current carrying capacity (power jumper contacts) | 10 A  |
| Number of outgoing power jumper contacts          | 3   |
| Isolation   | 500 V system/field                                |

## Connection data

|   |   |
|---|---|
| Connection technology: communication/fieldbus | Modbus (TCP, UDP): 2 x RJ-45; Modbus® RTU: 1 x D-sub 9 socket; RS-232 serial interface: 1 x D-sub 9 socket; RS-485 interface: 1 x D-sub 9 socket; Telecontrol protocol IEC 60870-5-101/-103: 1 x D-sub 9 socket; Telecontrol protocol IEC 60870-5-104: 1 x RJ-45; Telecontrol protocol IEC 61850: 1 x RJ-45; Telecontrol protocol DNP3: 1 x RJ-45 or D-sub 9 socket |
| Connection technology: system supply          | 2 x CAGE CLAMP®   |
| Connection technology: field supply           | 6 x CAGE CLAMP®   |
| Connection type 1                             | System/field supply   |
| Solid conductor                               | 0.08 ... 2.5 mm <sup>2</sup> / 28 ... 14 AWG  |
| Fine-stranded conductor                       | 0.08 ... 2.5 mm <sup>2</sup> / 28 ... 14 AWG  |
| Strip length                                  | 8 ... 9 mm / 0.31 ... 0.35 inches   |
| Connection technology: antenna                | 1 x SMA socket  |
| Connection technology: device configuration   | 1 x Male connector; 4-pole  |

## Physical data

|                                   |                         |
|-----------------------------------|-------------------------|
| Width                             | 102.5 mm / 4.035 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

|                    |                              |
|--------------------|------------------------------|
| Weight             | 284 g                        |
| Color              | light gray                   |
| Housing material   | Polycarbonate; polyamide 6.6 |
| Conformity marking | CE                           |

## Environmental requirements

|                                 |                |
|---------------------------------|----------------|
| Ambient temperature (operation) | -20 ... +60 °C |
|---------------------------------|----------------|

Subject to changes. Please also observe the further product documentation!



|  |   |
|--|---|
| 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 3K6/IEC EN 60721-3-3 and E-DIN 40046-721-3, accounting for a temperature range of -20 to +60 °C (except for wind-driven precipitation, water and ice formation) |
| Mounting position  | any   |
| Mounting type  | DIN-35 rail   |
| Vibration resistance   | 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   |
| Fire load  | 3.965 MJ  |
| Permissible H <sub>2</sub> S contaminant concentration at a relative humidity 75 % | 10 ppm  |
| Permissible SO <sub>2</sub> contaminant concentration at a relative humidity 75 %  | 25 ppm  |

## Commercial data

|                       |               |
|-----------------------|---------------|
| eCl@ss 10.0           | 27-24-26-07   |
| eCl@ss 9.0            | 27-24-26-07   |
| ETIM 8.0              | EC000236      |
| ETIM 7.0              | EC000236      |
| PU (SPU)              | 1 pcs         |
| Packaging type        | box           |
| Country of origin     | DE            |
| GTIN                  | 4055143349758 |
| Customs tariff number | 85371091990   |

## Approvals / Certificates

### General approvals





| Logo | Approval | Additional Approval Text | Certificate name  |
|------|----------|--------------------------|-------------------|
|      | CCC      | CNCA-C23-01              | 2020312310000213  |
|      | CNEX     |                          | (Ex ec IIC T4 Gc) |

Subject to changes. Please also observe the further product documentation!


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|  |  |                             |   |
|--|--|-----------------------------|---|
|    | EAC<br>Brjansker Zertifizierungsstelle                       | TP TC 020/2011              | EAC RU C-DE.AM02.<br>B.00087/19                         |
|    | EAC<br>Brjansker Zertifizierungsstelle                       | TP TC 012/2011              | EAC RU C-DE.AZ58.<br>B.2173-21 e (2Ex e<br>IIC T4 Gc X) |
|  | IEC<br>DNV GL Netherlands B.V.                               | IEC 60870-5-104 ed.2 Server | 10017175-OPE/INC<br>16-2021                             |
|  | IEC<br>DNV GL Netherlands B.V.                               | IEC 60870-5-104 ed.2 Client | 10035055-INC 17-<br>1995                                |
|  | KC<br>National Radio Research Agency                         | Article 58-2, Clause 3      | MSIP-REM-W43-<br>PFC750                                 |
|    | UL<br>Underwriters Laboratories Inc. (ORDINARY<br>LOCATIONS) | UL 61010-2-201              | E175199   |
|  | UL<br>Underwriters Laboratories Inc. (ORDINARY<br>LOCATIONS) | -                           | E175199   |

## Declarations of conformity and manufacturer's declarations

| Logo   | Approval   | Additional Approval Text | Certificate name |
|--|--|--------------------------|------------------|
|  | EU-Declaration of Conformity<br>WAGO GmbH & Co. KG | -                        | -                |

## Approvals for marine applications

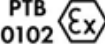





| Logo   | Approval                      | Additional Approval Text | Certificate name             |
|--|-------------------------------|--------------------------|------------------------------|
|  | DNV GL<br>KEMA Nederland B.V. | -                        | 10035055-<br>INC 17-<br>1995 |

## Approvals for hazardous areas

Subject to changes. Please also observe the further product documentation!

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| Logo  | Approval   | Additional Approval Text | Certificate name                               |
|---|--|--------------------------|--|
|   | ATEX<br>TUEV Nord Cert GmbH                                | EN 60079-0               | TUEV_14_ATEX_148929_X (II 3 G Ex ec IIC T4 Gc) |
|   | CCC<br>CNEX  | CNCA-C23-01              | 2020312310000213 (Ex ec IIC T4 Gc)             |
|   | IECEX<br>TUEV Nord Cert GmbH                               | IEC 60079-0              | IECEX TUN 14.0035 X (Ex ec IIC T4 Gc)          |
|   | INMETRO<br>TÜV Rheinland do Brasil Ltda.                   | IEC 60079-0              | BR-Ex_TÜV 12.1297 X                            |
|   | UKEx<br>WAGO GmbH & Co. KG                                 | EN 60079-0               | UKCA_WAGO22UKEX003X_ec                         |
|  | UL<br>Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS) | UL 121201                | E198726 Sec.1                                  |

## Optional accessories

### Antenna

#### Antenna



Item no.: 758-966

Theft-proof combination antenna; with 2.5m cable and SMA straight plug; GSM UMTS; 850/ 900/ 1800/ 1900/ 2100 MHz [www.wago.com/758-966](http://www.wago.com/758-966)



Item no.: 758-961

Self-adhesive antenna; with 2.5m cable and SMA straight plug; GSM/ UMTS/ LTE/ Bluetooth®/ WLAN; 699-960, 1710-2690 MHz [www.wago.com/758-961](http://www.wago.com/758-961)

### Cables and pluggable connectors

#### Connector plug



Item no.: 750-975

ETHERNET RJ-45 connector, IP20; ETHERNET 10/100 Mbit/s; for field assembly

[www.wago.com/750-975](http://www.wago.com/750-975)



Item no.: 750-978/000-012

Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22; Strain relief

[www.wago.com/750-978/000-012](http://www.wago.com/750-978/000-012)

Subject to changes. Please also observe the further product documentation!

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

[www.wago.com/750-979/000-012](http://www.wago.com/750-979/000-012)



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

[www.wago.com/750-978/000-021](http://www.wago.com/750-978/000-021)



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

[www.wago.com/750-979/000-022](http://www.wago.com/750-979/000-022)



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

[www.wago.com/750-978/000-022](http://www.wago.com/750-978/000-022)



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

[www.wago.com/750-979/000-011](http://www.wago.com/750-979/000-011)



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

[www.wago.com/750-979/000-021](http://www.wago.com/750-979/000-021)



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

[www.wago.com/750-977/000-011](http://www.wago.com/750-977/000-011)



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

[www.wago.com/750-978/000-011](http://www.wago.com/750-978/000-011)



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

[www.wago.com/750-977/000-022](http://www.wago.com/750-977/000-022)



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

[www.wago.com/750-977/000-012](http://www.wago.com/750-977/000-012)



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

[www.wago.com/750-977/000-021](http://www.wago.com/750-977/000-021)

## Communication

Communication cable



**Item no.: 750-923**  
Configuration cable; USB connector; Length: 2.5 m

[www.wago.com/750-923](http://www.wago.com/750-923)

Subject to changes. Please also observe the further product documentation!





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

[www.wago.com/750-923/000-001](http://www.wago.com/750-923/000-001)

### System housing

#### System enclosure



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

[www.wago.com/850-814/002-000](http://www.wago.com/850-814/002-000)



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

[www.wago.com/850-815/002-000](http://www.wago.com/850-815/002-000)



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

[www.wago.com/850-816/002-000](http://www.wago.com/850-816/002-000)



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

[www.wago.com/850-817/002-000](http://www.wago.com/850-817/002-000)



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

[www.wago.com/850-825](http://www.wago.com/850-825)



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

[www.wago.com/850-826](http://www.wago.com/850-826)



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

[www.wago.com/850-827](http://www.wago.com/850-827)



**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

[www.wago.com/850-827/002-000](http://www.wago.com/850-827/002-000)



**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

[www.wago.com/850-826/002-000](http://www.wago.com/850-826/002-000)



**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

[www.wago.com/850-828/002-000](http://www.wago.com/850-828/002-000)



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

[www.wago.com/850-828](http://www.wago.com/850-828)



**Item no.: 850-834**  
IP65 enclosure; Polyester (RAL 7032); WxHxD (164x100x164 mm); 9 x M12, 4 x M20

[www.wago.com/850-834](http://www.wago.com/850-834)

**Item no.: 850-835**

Subject to changes. Please also observe the further product documentation!



IP65 enclosure; Polyester (RAL 7032); WxHxD (244x100x164 mm); 4 x M20, 4 x M16, 14 x M12 cable grip

[www.wago.com/850-835](http://www.wago.com/850-835)



**Item no.: 850-836**

IP65 enclosure; Polyester (RAL 7032); WxHxD (324x100x164 mm); 4 x M20, 8 x M16, 17 x M12 cable grip

[www.wago.com/850-836](http://www.wago.com/850-836)

### Carrier rail

#### Mounting accessories



**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

[www.wago.com/210-197](http://www.wago.com/210-197)



**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

[www.wago.com/210-198](http://www.wago.com/210-198)



**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

[www.wago.com/210-504](http://www.wago.com/210-504)



**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

[www.wago.com/210-505](http://www.wago.com/210-505)



**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

[www.wago.com/210-506](http://www.wago.com/210-506)



**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

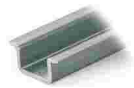
[www.wago.com/210-508](http://www.wago.com/210-508)



**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

[www.wago.com/210-113](http://www.wago.com/210-113)



**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

[www.wago.com/210-118](http://www.wago.com/210-118)



**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

[www.wago.com/210-112](http://www.wago.com/210-112)



**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

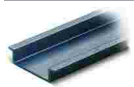
[www.wago.com/210-114](http://www.wago.com/210-114)



**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

[www.wago.com/210-115](http://www.wago.com/210-115)



**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

[www.wago.com/210-196](http://www.wago.com/210-196)

### Memory card

Memory card

Subject to changes. Please also observe the further product documentation!

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**Item no.: 758-879/000-001**  
Memory Card SD; SLC-NAND; 2 GByte; Temperature from -40 to 90 °C

[www.wago.com/758-879/000-001](http://www.wago.com/758-879/000-001)



**Item no.: 758-879/000-2108**  
Memory Card SD; pSLC-NAND; 8 GB; Temperature range: -40 to 90°C

[www.wago.com/758-879/000-2108](http://www.wago.com/758-879/000-2108)

## Software

### Basic version



**Item no.: 759-333**  
WAGO-I/O-PRO

[www.wago.com/759-333](http://www.wago.com/759-333)



**Item no.: 759-333/000-923**  
WAGO-I/O-PRO; USB-Set

[www.wago.com/759-333/000-923](http://www.wago.com/759-333/000-923)

## Marking accessories

### Marker carrier



**Item no.: 750-103**  
Group marker carrier

[www.wago.com/750-103](http://www.wago.com/750-103)

### 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

[www.wago.com/2009-145/000-006](http://www.wago.com/2009-145/000-006)



**Item no.: 2009-145**  
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

[www.wago.com/2009-145](http://www.wago.com/2009-145)



**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

[www.wago.com/2009-145/000-002](http://www.wago.com/2009-145/000-002)



**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

[www.wago.com/2009-145/000-007](http://www.wago.com/2009-145/000-007)



**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

[www.wago.com/2009-145/000-005](http://www.wago.com/2009-145/000-005)



**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









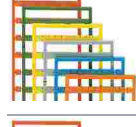



[www.wago.com/2009-145/000-012](http://www.wago.com/2009-145/000-012)









**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

[www.wago.com/2009-145/000-023](http://www.wago.com/2009-145/000-023)

Subject to changes. Please also observe the further product documentation!

|  |   |  |
|--|---|--|
|    | <b>Item no.: 2009-145/000-024</b><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet | <a href="http://www.wago.com/2009-145/000-024">www.wago.com/2009-145/000-024</a> |
|    | <b>Item no.: 248-501/000-006</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; blue                                    | <a href="http://www.wago.com/248-501/000-006">www.wago.com/248-501/000-006</a>   |
|    | <b>Item no.: 248-501/000-007</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; gray                                    | <a href="http://www.wago.com/248-501/000-007">www.wago.com/248-501/000-007</a>   |
|    | <b>Item no.: 248-501/000-002</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow                                  | <a href="http://www.wago.com/248-501/000-002">www.wago.com/248-501/000-002</a>   |
|    | <b>Item no.: 248-501/000-012</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; orange                                  | <a href="http://www.wago.com/248-501/000-012">www.wago.com/248-501/000-012</a>   |
|    | <b>Item no.: 248-501</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white   | <a href="http://www.wago.com/248-501">www.wago.com/248-501</a>                   |
|   | <b>Item no.: 248-501/000-017</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; light green                             | <a href="http://www.wago.com/248-501/000-017">www.wago.com/248-501/000-017</a>   |
|  | <b>Item no.: 248-501/000-005</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; red                                     | <a href="http://www.wago.com/248-501/000-005">www.wago.com/248-501/000-005</a>   |
|  | <b>Item no.: 248-501/000-024</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; violet                                  | <a href="http://www.wago.com/248-501/000-024">www.wago.com/248-501/000-024</a>   |
|  | <b>Item no.: 248-501/000-023</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; green                                   | <a href="http://www.wago.com/248-501/000-023">www.wago.com/248-501/000-023</a>   |
| Group marker carrier   |   |  |
|  | <b>Item no.: 750-107</b><br>Group marker carrier  | <a href="http://www.wago.com/750-107">www.wago.com/750-107</a>                   |
| <b>Shield termination</b>  |   |  |
| Shield clamping saddles  |   |  |
|  | <b>Item no.: 790-116</b><br>Shield clamping saddle; 19 mm wide; diameter of compatible conductor; 7 ... 16 mm                                     | <a href="http://www.wago.com/790-116">www.wago.com/790-116</a>                   |

Subject to changes. Please also observe the further product documentation!

|   |   |  |
|---|---|--|
|  | <b>Item no.: 790-124</b><br>Shield clamping saddle; 27 mm wide; diameter of compatible conductor; 6 ... 24 mm | <a href="http://www.wago.com/790-124">www.wago.com/790-124</a> |
|  | <b>Item no.: 790-108</b><br>Shield clamping saddle; 11 mm wide; diameter of compatible conductor; 3 ... 8 mm  | <a href="http://www.wago.com/790-108">www.wago.com/790-108</a> |
|  | <b>Item no.: 790-140</b><br>Shield clamping saddle; diameter of compatible conductor                          | <a href="http://www.wago.com/790-140">www.wago.com/790-140</a> |
|  | <b>Item no.: 790-216</b><br>Shield clamping saddle; 21.8 mm wide; 6 ... 16 mm                                 | <a href="http://www.wago.com/790-216">www.wago.com/790-216</a> |
|  | <b>Item no.: 790-220</b><br>Shield clamping saddle; 30 mm wide; 6 ... 20 mm                                   | <a href="http://www.wago.com/790-220">www.wago.com/790-220</a> |
|  | <b>Item no.: 790-208</b><br>Shield clamping saddle; 12.4 mm wide; 3 ... 8 mm                                  | <a href="http://www.wago.com/790-208">www.wago.com/790-208</a> |

## Downloads

### Documentation

#### Manual

|  |                        |               |          |
|--|------------------------|---------------|----------|
| System Manual WAGO I/O System 750/753<br>Decentralized Automation Technology                                     | V 3.3.0<br>2023 May 4  | pdf<br>8.8 MB | Download |
| Product Manual Configure IEC 61850<br>with Telecontrol Configurator and e!COCKPIT                                | V 1.3.0<br>2022 Sep 14 | pdf<br>6.8 MB | Download |
| PFC200 CS 2ETH RS 3G<br>Controller PFC200; 2 x ETHERNET, RS-232/-485, Mobile Radio Module                        | 1.12.0<br>2022 Aug 29  | pdf<br>7.6 MB | Download |
| Product Manual Configure IEC 60870<br>with Telecontrol Configurator and e!COCKPIT                                | V 1.2.0<br>2022 Jul 22 | pdf<br>9.0 MB | Download |
| Product Manual Configure DNP3<br>with Telecontrol Configurator and e!COCKPIT                                     | V 1.2.0<br>2022 Jul 22 | pdf<br>7.4 MB | Download |
| Cyber Security for Controller PFC100 / PFC200  | V 1.0.0<br>2019 Oct 31 | pdf<br>4.9 MB | Download |
| Product Manual WAGO DNP3 Solution<br>for programmable Controls of Telecontrol Technology                         | V 1.5.1                | pdf<br>5.2 MB | Download |
| Product Manual WAGO MODBUS Master Configurator<br>for configuration of MODBUS networks in WAGO-I/O-PRO (CODESYS) | V 1.1.0                | pdf<br>1.8 MB | Download |

Subject to changes. Please also observe the further product documentation!



|   |                    |                 |          |
|---|--------------------|-----------------|----------|
| Product Manual WAGO IEC 61850 Solution<br>for programmable Controls of Telecontrol Technology   | V 1.8.0            | pdf<br>19.7 MB  | Download |
| Product Manual WAGO IEC 60870 Solution<br>for programmable Controls of Telecontrol Technology   | V 1.8.0            | pdf<br>6.0 MB   | Download |
| System Manual Series 750/753<br>Online HTML   |                    | URL             | Download |
| <b>Bid Text</b>   |                    |                 |          |
| 750-8207/025-001<br>X81 - Datei   | 2019 Feb 19        | xml<br>8.5 kB   | Download |
| 750-8207/025-001<br>docx - Datei  | 2019 Jan 23        | docx<br>20.8 kB | Download |
| <b>Instruction Leaflet</b>  |                    |                 |          |
| CCC Ex (Additional information)<br>WAGO-I/O-SYSTEM *750-****/*  | 2023 Apr 26        | pdf<br>163.6 kB | Download |
| <b>Tutorial</b>   |                    |                 |          |
| Set IP address with Ethernet Settings<br>In this video we are demonstrating how you can set a IP address with Ethernet Settings. Content: 00:27 – Chapter #1 Download and install software; 00:56 – Chapter #2 Open Ethernet Settings; 01:10 – Chapter #3 Establish serial Connection; 01:34 – Chapter #4 Set IP address; 02:10 – Chapter #5 Check IP address | 3.0<br>2017 Dec 18 | mp4<br>88.3 MB  | Download |
| Establish connection to a controller using SSH<br>In this video we are demonstrating how to establish a SSH connection with a controller using for example PuTTY to be able to work with the LINUX console. Contents: 0:21 Download and install the SSH client; 0:40 Establish the SSH connection; 0:50 Log on to the Controller                              | 1.0<br>2017 Aug 5  | mp4<br>29.0 MB  | Download |
| WAGO IEC 61400-25 solution (Windmill)   | 1.0<br>2012 Jun 1  | wmv<br>20.4 MB  | Download |
| WAGO IEC 61850 solution (Transformer)   | 1.0<br>2012 Jun 1  | wmv<br>20.0 MB  | Download |
| Tutorial WAGO IEC 61850 / 61400 solution  | 1.0<br>2012 Jun 1  | wmv<br>45.4 MB  | Download |

**System Description**

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 We are always happy to take your call at +49 (571) 887-44222.



|   |                        |                 |          |
|---|------------------------|-----------------|----------|
| Controller PFC100/200, General Product Information                                  |                        | pdf<br>592.5 kB | Download |
| Overview on WAGO-I/O-SYSTEM 750 approvals   |                        | pdf<br>789.0 kB | Download |
| <b>Additional Information</b>   |                        |                 |          |
| Disposal and Recycling<br>Electrical and electronic equipment, Batteries, Packaging | V 1.1.0<br>2022 Aug 18 | pdf<br>2.2 MB   | Download |
| WAGO OPC UA Server  | V 1.1.0<br>2021 Jan 28 | pdf<br>1.2 MB   | Download |

## Application Notes

### Application Note CoDeSys 2.3

|   |                           |               |          |
|---|---------------------------|---------------|----------|
| Application note Cloud Connectivity<br>This application note explains how the WAGO controllers PFC100 and PFC200 can communicate with cloud services like Microsoft Azure (WAGO Cloud), Amazon AWS and IBM Bluemix. Data could be send to the cloud and commands could receive from the cloud. The libraries WagoLibCloud for WAGO-I/O-PRO V2.3 and WagoAppCloud for eCOCKPIT are used.   | 2019-09-17<br>2019 Sep 17 | zip<br>4.1 MB | Download |
| Application note for installing a MySQL-Server on a PFC-Controller<br>This Application Note explains how a MySQL-Server can be set up and used on a PFC 200. The Application shows how measurement values of the 3-Phase Power Measurement Module can be written into a database.   | 1.0.4<br>2019 May 16      | zip<br>4.5 MB | Download |
| HART Tool Routing via ETHERNET with 750-820x/750-88x and CODESYS 2.3 (a116120)<br>This application note describes how to set up asset management systems, which facilitate simple, efficient configuration of HART field devices. With the Cerabar PMC51 (Endress+Hauser) as an example, a connection is established from any HART sensor to a WAGO PROFIBUS Controller and a WAGO ETHERNET Fieldbus Coupler. The configuration is made with the asset management software WAGOframe, PACTware und FieldCare. | 1.0.0<br>2019 Mar 22      | pdf<br>3.9 MB | Download |
| Using the web visualization with Java™ runtime environment (JRE, JVM) 7 update 51 (7u51) (a500690)<br>Oracle announced an update (7u51) for their Java™ runtime environment for the 14th of January 2014 which might have an impact on the use of the WAGO web visualization with Controller, PERSPECTO CP devices and WAGO-IO-IPCs. For more details please have a look into our application note.   | 1.2.4<br>2019 Feb 26      | zip<br>5.0 MB | Download |

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Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.



**Application Note e!COCKPIT**

|   |            |        |          |
|---|------------|--------|----------|
| e!COCKPIT application note WagoAppCloud   | 2022-11-04 | zip    | Download |
| This application note explains how the WAGO controllers PFC100 and PFC200 can communicate with cloud services like Microsoft Azure (WAGO Cloud), Amazon AWS and IBM Bluemix. Data could be send to the cloud and commands could receive from the cloud. The library WagoAppCloud for e!COCKPIT is used. | 2022 Nov 4 | 2.7 MB |          |

|  |             |        |          |
|--|-------------|--------|----------|
| SNMP Communication (a500850)   | 1.1.0       | zip    | Download |
| This application note explains how the WAGO controllers PFC100 and PFC200 can communicate via SNMP: Sending traps / inform notifications, creating an MIB and using the controller as an SNMP agent. To do so, the SNMP-specific libraries for WAGO-I/O-PRO V2.3 and e!COCKPIT are used. | 2020 Feb 20 | 3.8 MB |          |

|   |            |        |          |
|---|------------|--------|----------|
| eCOCKPIT application note installation MySQL-Server   | 1.0.3      | pdf    | Download |
| This Application Note explains how a MySQL-Server can be set up and used on a PFC 200. The Application shows how measurement values of the 3-Phase Power Measurement Module can be written into a database. | 2019 Sep 9 | 1.9 MB |          |

|   |             |        |          |
|---|-------------|--------|----------|
| HART Tool Routing via ETHERNET with 750-820x and e!RUNTIME (a116130)  | 1.0.0       | pdf    | Download |
| This application note describes how to set up asset management systems, which facilitate simple, efficient configuration of HART field devices. With the Cerabar PMC51 (Endress+Hauser) as an example, a connection is established from any HART sensor to a WAGO PROFIBUS Controller and a WAGO ETHERNET fieldbus coupler. The configuration is made with the asset management software WAGOframe, PACTware und FieldCare. | 2019 Mar 22 | 2.9 MB |          |

|                                |             |        |          |
|--------------------------------|-------------|--------|----------|
| <b>Application note, other</b> | 1.0.0       | pdf    | Download |
|                                | 2021 Apr 27 | 2.2 MB |          |

**Libraries**

**WAGOAppRTU\_Slaves Library**

|  |             |        |          |
|--|-------------|--------|----------|
| WAGOAppRTU_Slaves Library  | 1.9.0.0     | ZIP    | Download |
| Library for the IEC-60870 connection of customer systems in the German electricity network area of the network operators E.ON, Westnetz, EWE and Netz BW; the number and power of the generating plants (EZA) is increasing. In order to ensure network stability, distribution system operators require that customer facilities become controllable and switchable. This means considerable programming effort for corresponding interfaces in the network connection point (NAP). For system integrators who use WAGO telecontrol technology, however, this work is not necessary, because with the library WAGOAppRTU_Slaves they can use ready-made communication libraries - as a free download for the network areas of the E.ON and EWE, networks BW and for Westnetz. | 2023 Jan 18 | 2.1 MB |          |

**Library**

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|   |             |         |          |
|---|-------------|---------|----------|
| Library WagoLibCloud_02.lib   | 2.2.4       | zip     | Download |
| Die Bibliothek dient zur Kommunikation des WAGO Controller PFC100 und PFC200 mit Cloud Diensten wie Microsoft Azure (WAGO Cloud), Amazon AWS and IBM Bluemix. Daten können zur Cloud gesendet und Kommandos von der Cloud empfangen werden. | 2020 Jan 21 | 57.6 kB |          |

## Engineering-Software

### e!COCKPIT

|  |             |        |          |
|--|-------------|--------|----------|
| e!COCKPIT  | 1.11.2.0    | zip    | Download |
| Register at no cost and test our engineering software for 30 days. | 2023 Apr 24 | 4.1 GB |          |

### WAGO Telecontrol Configurator

|   |             |          |          |
|---|-------------|----------|----------|
| WAGO Telecontrol Configurator   | 1.2.31.0    | ZIP      | Download |
| The WAGO Telecontrol Configurator is an stand-alone software for easy configuration and commissioning of WAGO controllers for telecontrol technology. | 2021 Dec 16 | 111.2 MB |          |

Without the help of additional software, this configurator can be used alone to configure communication between WAGO-I/O-SYSTEM controllers and a DNP3 and IEC 60870-5-101/104 control system. Data from digital and analog input modules, as well as the 3-phase power measurement modules can be sent to the control system. The control system can send commands and setpoints to the digital and analog output modules. The telecontrol configurator cannot further process the data in the decentralized controller. WAGO provides the *e!COCKPIT* automation software for programming a decentralized automation task. The telecontrol configurators for DNP3 and IEC 60870-5-101/104 are integrated in the same way in *e!COCKPIT*.

### Configuration and Commissioning Software

|   |             |          |          |
|---|-------------|----------|----------|
| WAGO-IO-PRO Demo-Version (759-912) / Serie 750, 758 und 762             | V 2.3.9.68  | zip      | Download |
| Für ein Firmwareupdate können Sie sich jederzeit an den Support wenden. | 2022 Feb 17 | 125.5 MB |          |

## Runtime Software

### GitHub: Linux® Toolchain

|   |     |          |
|---|-----|----------|
| GitHub: Linux® Software Development Kit (SDK) | URL | Download |
|---|-----|----------|

With the PFC SDK, WAGO offers Linux® enthusiasts the opportunity to compile the PFC firmware themselves, and to expand it according to their own wishes.

The WAGO PFC SDK includes a Pengutronix build environment, optimized for the PFC, and the OSELAS Toolchain, which open up the following possibilities, among others:

- Expanding the firmware functions using open source packages like: Python, SQLite3, PHP, etc.
- Compiling their own C/C++ applications with direct or indirect bus access to the local bus, CANopen, or PROFIBUS.

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- Compiling external libraries using CODESYS V2 to expand the PLC applications.
- There are detailed instructions for many of these tasks and ideas (see WAGO GitHub HowTo's).

### Firmware

|  |                         |                 |          |
|--|-------------------------|-----------------|----------|
| Image Update (SD Karte) PFC100/200<br>WAGO_FW0750-8xxx_V031010_IX22_SP1_I        | V 22 SP1<br>2022 Dec 12 | zip<br>210.8 MB | Download |
| WUP Update (WAGOUpluploadTool) PFC100/200<br>WAGO_FW0750-8xxx_V031010_IX22_SP1_W | V 22 SP1<br>2022 Dec 12 | zip<br>208.5 MB | Download |

### IoT/ Cloud

#### "Remote Access" Beta Software

|   |                          |               |          |
|---|--------------------------|---------------|----------|
| "Remote Access" Beta Software<br>Register for the beta version of "Remote Access" for the WAGO Cloud. | V 0.12.0.0<br>2020 Dec 6 | ZIP<br>2.1 MB | Download |
|---|--------------------------|---------------|----------|

### CAD/CAE-Data

#### CAD data

|                               |     |          |
|-------------------------------|-----|----------|
| 2D/3D Models 750-8207/025-001 | URL | Download |
|-------------------------------|-----|----------|

#### CAE data

|                                    |     |          |
|------------------------------------|-----|----------|
| EPLAN Data Portal 750-8207/025-001 | URL | Download |
| WSCAD Universe 750-8207/025-001    | URL | Download |
| ZUKEN Portal 750-8207/025-001      | URL | Download |
| EPLAN Data Portal 750-8207/025-001 | URL | Download |
| WSCAD Universe 750-8207/025-001    | URL | Download |

### Environmental Product Compliance

#### Compliance Search

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[URL](#)

[Download](#)

Environmental Product Compliance 750-8207/025-001

Controller PFC200; 2 x ETHERNET, RS-232/-485, Mobile Radio Module; Telecontrol technology; Ext. Temperature

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## Installation Notes

## Product family

**Controller 750**

[Show all products from the family](#)

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