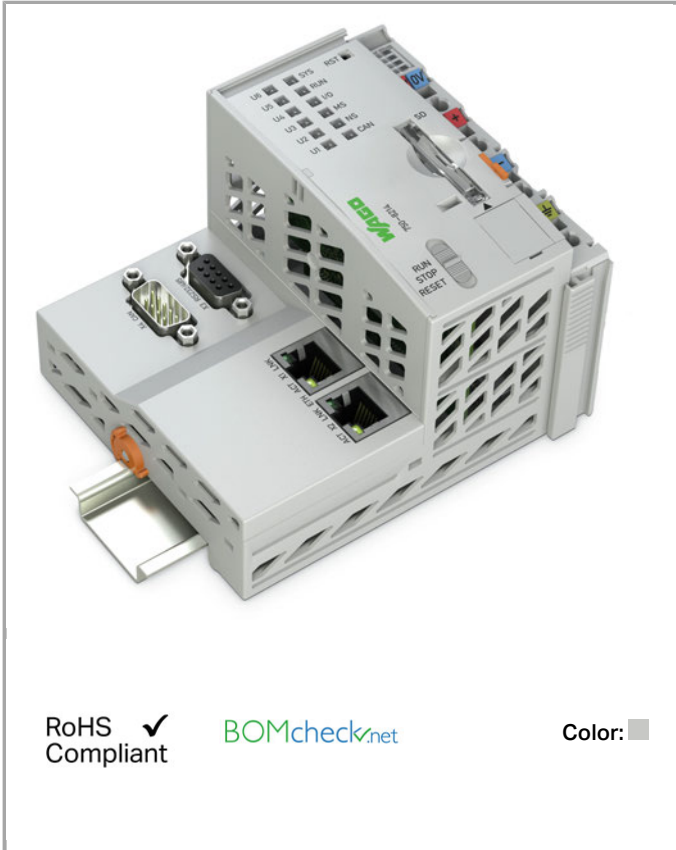


Data sheet | Item number: 750-8214

Controller PFC200; 2nd Generation; 2 x ETHERNET, RS-232/-485, CAN, CANopen; light gray



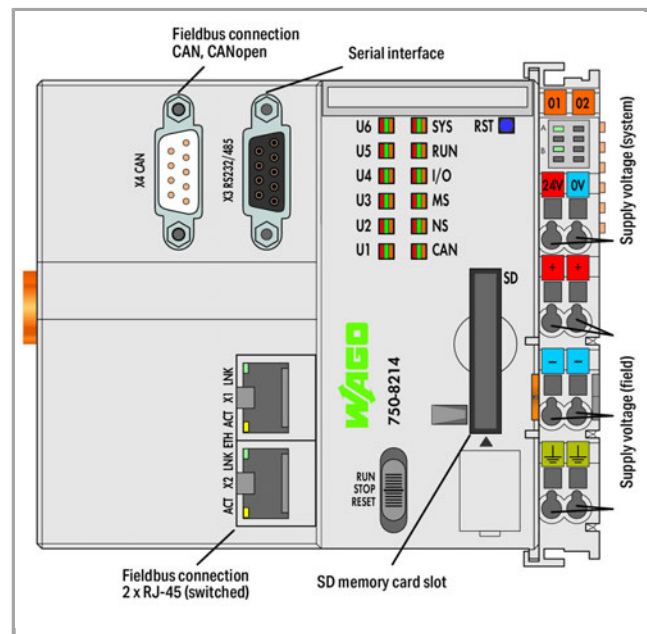
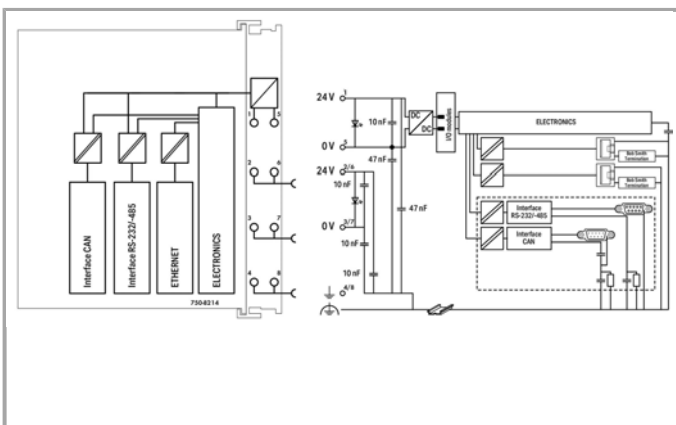
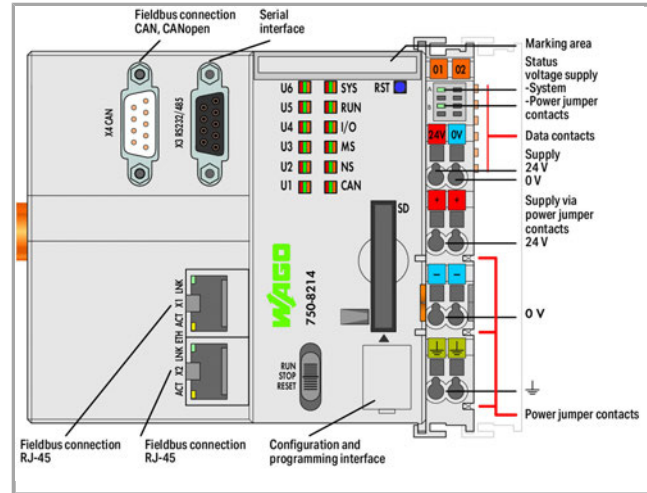
750-8214



RoHS  Compliant

[BOMcheck.net](https://www.bomcheck.net)

Color:





## 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 modules found within the 750/753 Series.

Two ETHERNET interfaces and an integrated switch enable line topology wiring.

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

Besides the processing industry and building automation, typical applications for the PFC200 include standard machinery and equipment control (e. g., packaging, bottling and manufacturing systems, as well as textile, metal and wood processing machines).

Programming per IEC 61131-3

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

## Data

### Technical Data

|                                       |   |
|---------------------------------------|---|
| Communication                         | CANopen<br>Modbus (TCP, UDP)<br>Ethernet<br>Modbus RTU<br>RS-232 serial interface<br>RS-485 interface<br>EtherNet/IP adapter (slave), Library for e!RUNTIME<br>EtherCAT-Master (mit Zusatzlizenz)<br>MQTT |
| Ethernet protocol                     | DHCP<br>DNS<br>NTP<br>FTP<br>FTPS<br>SNMP<br>HTTP<br>HTTPS<br>SSH   |
| 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)<br>Ladder Diagram (LD)<br>Function Block Diagram (FBD), Continuous Function Chart (CFC)<br>Structured Text (ST)<br>Sequential Function Chart (SFC)                                  |



|  |   |
|--|---|
| Programming environment                                | e!COCKPIT (based on CODESYS V3)<br>WAGO-I/O-PRO V2.3 (based on CODESYS V2.3)  |
| Configuration options                                  | e!COCKPIT<br>WAGO-I/O-CHECK<br>Web-based management<br>e!RUNTIME library<br>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; Line length (max.):<br>100 m   |
| Main memory (RAM)                                      | 512 MB  |
| Internal memory (flash)                                | 4000 MB   |
| Hardware non-volatile memory                           | 128 Kbytes  |
| Program memory   | CODESYS V2: 16 MB; e!RUNTIME: 60 MB (Program and data memory<br>(dynamically distributed))  |
| Data memory  | CODESYS V2: 64 MB; e!RUNTIME: 60 MB Program and data memory<br>(dynamically distributed)  |
| Software non-volatile memory                           | 128 Kbytes  |
| Type of memory card                                    | SD and SDHC up to 32 GB (All guaranteed properties are only valid<br>in connection with the WAGO 758-879/000-001 memory card.)  |
| Memory card slot                                       | Push-push mechanism, sealable cover lid   |
| Number of modules per node max.                        | 250   |
| Number of I/O modules without bus extension max.       | 64  |
| Input and output process image (internal) max.         | 1000 Worte/1000 Worte   |
| Input and output process image (MODBUS) max.           | 1000 Worte/1000 Worte   |
| Input and output process image (CAN) max.              | 2000 Worte/2000 Worte   |
| Indicators   | LED (SYS, RUN, I/O, U1 U6) red/green/orange: Status system,<br>program, internal data bus, CANopen, status programmable by user<br>(can be used via CODESYS library); LED (A, B) green: System power<br>supply status, field supply |
| System supply voltage                                  | DC 24 V (-25 +30 %); via wiring level (CAGE CLAMP® connection)  |
| Input current typ. at rated load (24 V)                | 550 mA  |
| Total current for system supply                        | 1700 mA   |
| Field supply voltage                                   | DC 24 V (-25 +30 %); via power jumper contacts  |
| Current carrying capacity of the power jumper contacts | 10 A  |
| Number of outgoing power jumper contacts               | 3   |
| Isolation  | 500 V system/supply   |

## Connection data

|   |  |
|---|--|
| Connection technology: communication/fieldbus | CANopen: 1 x D-Sub 9 connector; Modbus TCP/UDP: 2 x RJ-<br>45; Modbus RTU: 1 x D-Sub 9 socket; RS-232 serial interface: 1 x D-<br>Sub 9 socket; RS-485 interface: 1 x 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 inch              |
| Connection technology: Device configuration | 1 x 4-pole male connector            |

### Geometrical Data

|                                       |                      |
|---------------------------------------|----------------------|
| Width                                 | 112 mm / 4.409 inch  |
| Height                                | 71.9 mm / 2.831 inch |
| Height from upper-edge of DIN-35 rail | 64.7 mm / 2.547 inch |
| Depth                                 | 100 mm / 3.937 inch  |

### Mechanical data

|                    |                              |
|--------------------|------------------------------|
| Weight             | 256.858 g                    |
| Color              | light gray                   |
| Housing material   | Polycarbonate, polyamide 6.6 |
| Conformity marking | CE                           |

### Environmental Requirements

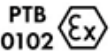


|  |  |
|--|--|
| Surrounding air (operating) temperature  | 0 55 °C  |
| Surrounding air (storage) temperature  | -40 85 °C  |
| Protection class   | IP20   |
| Degree of pollution (5)  | 2 per IEC 61131-2  |
| Operating altitude   | without temperature derating: 0 2000 m; with temperature derating: 2000 5000 m (0.5 K/100 m); max.: 5000 m |
| Relative air humidity (no condensation)  | 95 %   |
| Mounting position  | any  |
| Type of mounting   | DIN-35 rail  |
| Vibration resistance   | 4g per IEC 60068-2-6   |
| Shock resistance   | 15g per IEC 60068-2-27   |
| EMC immunity to interference   | acc. to EN 61000-6-2, marine applications  |
| EMC emission of interference   | acc. to EN 61000-6-3, marine applications  |
| Exposure to pollutants   | Per IEC 60068-2-42 and IEC 60068-2-43  |
| 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


|                    |               |
|--------------------|---------------|
| Country of origin  | DE            |
| GTIN               | 4055143759762 |
| Customs Tariff No. | 85371091990   |

## Approvals / Certificates




### Ex-Approvals

| Logo  | Approval   | Additional Approval Text | Certificate name      |
|---|--|--------------------------|-----------------------|
|   | ATEX<br>TUEV Nord Cert GmbH                                | EN 60079                 | TUEV_14_ATEX_148929_X |
|   | ATEX<br>TUEV Nord Cert GmbH                                | IEC 60079-0              | IECEx_TUN_14.0035_X   |
|  | UL<br>Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS) | ANSI/ISA 12.12.01        | E198726 Sec.1         |

### Country specific Approvals

| Logo   | Approval                             | Additional Approval Text | Certificate name    |
|--|--------------------------------------|--------------------------|---------------------|
|  | KC<br>National Radio Research Agency | Article 58-2, Clause 3   | MSIP-REM-W43-PFC750 |

### Ship Approvals

| Logo  | Approval   | Additional Approval Text | Certificate name |
|---|--|--------------------------|------------------|
|   | ABS<br>American Bureau of Shipping               | -                        | 19-HG1821926     |
|   | DNV GL<br>Det Norske Veritas, Germanischer Lloyd | -                        | TAA0000194       |
|  | LR<br>Lloyds Register                            | -                        | 02/20026 (E6)    |



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Polski Rejestr Statków

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RINA  
RINA Germany GmbH

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



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














### UL-Approvals
















| Logo   | Approval  | Additional Approval Text | Certificate name |
|--|---|--------------------------|------------------|
|  | UL<br>Underwriters Laboratories Inc. (ORDINARY LOCATIONS) | UL 61010-2-201           | E175199<br>Sec11 |

### Compatible products
















#### Carrier rail

|  |  |         |
|--|--|---------|
|  | <b>Item no.: 210-112</b><br>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 25 mm   | 210-112 |
|  | <b>Item no.: 210-113</b><br>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715                    | 210-113 |
|  | <b>Item no.: 210-114</b><br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715                     | 210-114 |
|  | <b>Item no.: 210-115</b><br>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 18 mm   | 210-115 |
|  | <b>Item no.: 210-118</b><br>Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715                   | 210-118 |
|  | <b>Item no.: 210-196</b><br>Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored | 210-196 |
|  | <b>Item no.: 210-197</b><br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715                       | 210-197 |
|  | <b>Item no.: 210-198</b><br>Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored  | 210-198 |
|  | <b>Item no.: 210-504</b>   |         |

|  |   |                     |
|--|---|---------------------|
|    | Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715                               | 210-504             |
|    | <b>Item no.: 210-505</b><br>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715 | 210-505             |
|    | <b>Item no.: 210-506</b><br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715  | 210-506             |
|    | <b>Item no.: 210-508</b><br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715    | 210-508             |
| <b>General accessories</b>   |   |                     |
|    | <b>Item no.: 750-921</b><br>Bluetooth® Adapter; light gray  | 750-921             |
|    | <b>Item no.: 750-923</b><br>Configuration cable; USB connector; Length: 2.5 m; black  | 750-923             |
|    | <b>Item no.: 750-923/000-001</b><br>Configuration cable; USB connector; Length: 5 m   | 750-923<br>/000-001 |
| <b>wiring and connectors</b>   |   |                     |
|    | <b>Item no.: 750-963</b><br>Fieldbus Connector CANopen; with D-sub female connector; 9-pole; light gray                         | 750-963             |
|  | <b>Item no.: 750-975</b><br>ETHERNET RJ-45 connector, IP20; ETHERNET 10/100 Mbit/s; for field assembly; light gray              | 750-975             |
|  | <b>Item no.: 750-977/000-011</b><br>Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22                            | 750-977<br>/000-011 |
|  | <b>Item no.: 750-977/000-012</b><br>Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22                            | 750-977<br>/000-012 |
|  | <b>Item no.: 750-977/000-021</b><br>Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24                            | 750-977<br>/000-021 |
|  | <b>Item no.: 750-977/000-022</b><br>Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24                            | 750-977<br>/000-022 |
|  | <b>Item no.: 750-978/000-011</b><br>Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22; Strain relief             | 750-978<br>/000-011 |
|  | <b>Item no.: 750-978/000-012</b><br>Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22; Strain relief             | 750-978<br>/000-012 |
|  | <b>Item no.: 750-978/000-021</b><br>Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24; Strain relief             | 750-978<br>/000-021 |

|  |   |                     |
|--|---|---------------------|
|    | <b>Item no.: 750-978/000-022</b><br>Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24; Strain relief                     | 750-978<br>/000-022 |
|    | <b>Item no.: 750-979/000-011</b><br>Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568A; AWG 22; Strain relief                       | 750-979<br>/000-011 |
|    | <b>Item no.: 750-979/000-012</b><br>Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 22; Strain relief                       | 750-979<br>/000-012 |
|    | <b>Item no.: 750-979/000-021</b><br>Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568A; AWG 24; Strain relief                       | 750-979<br>/000-021 |
|    | <b>Item no.: 750-979/000-022</b><br>Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 24; Strain relief                       | 750-979<br>/000-022 |
| <b>system box</b>  |   |                     |
|    | <b>Item no.: 850-804</b><br>IP65 enclosure; Stainless steel; WxHxD (400x123x200 mm); 4 x M20, 16 x M16, 28 x M12 cable grip             | 850-804             |
|    | <b>Item no.: 850-804/000-001</b><br>IP65 enclosure; Stainless steel; WxHxD (400x123x200 mm); 2 x M20, 13 x M16, 32 x M12 cable grip     | 850-804<br>/000-001 |
|  | <b>Item no.: 850-805</b><br>IP65 enclosure; Stainless steel; WxHxD (600x123x200 mm); 4 x M20, 19 x M16, 67 x M12 cable grip             | 850-805             |
|  | <b>Item no.: 850-814/002-000</b><br>IP65 enclosure; Sheet steel (RAL 7035); WxHxD (200x120x200 mm); without flange plate                | 850-814<br>/002-000 |
|  | <b>Item no.: 850-815/002-000</b><br>IP65 enclosure; Sheet steel (RAL 7035); WxHxD (300x120x200 mm); without flange plate                | 850-815<br>/002-000 |
|  | <b>Item no.: 850-816/002-000</b><br>IP65 enclosure; Sheet steel (RAL 7035); WxHxD (400x120x200 mm); without flange plate                | 850-816<br>/002-000 |
|  | <b>Item no.: 850-817/002-000</b><br>IP65 enclosure; Sheet steel (RAL 7035); WxHxD (600x120x200 mm); without flange plate                | 850-817<br>/002-000 |
|  | <b>Item no.: 850-825</b><br>IP65 enclosure; Aluminium (RAL 7032); WxHxD (160x100x160 mm); 9 x M12, 4 x M20                              | 850-825             |
|  | <b>Item no.: 850-826</b><br>IP65 enclosure; Aluminium (RAL 7032); WxHxD (240x100x160 mm); 4 x M20, 4 x M16, 14 x M12 cable grip         | 850-826             |
|  | <b>Item no.: 850-826/002-000</b><br>IP65 enclosure; Aluminium (RAL 7035); WxHxD (240x100x160 mm); 4 x M20, 4 x M16, 14 x M12 cable grip | 850-826<br>/002-000 |
| <b>Item no.: 850-827</b>   |   |                     |



|  |  |            |          |
|--|--|------------|----------|
|    | IP65 enclosure; Aluminium (RAL 7032); WxHxD (320x100x160 mm); 4 x M20, 8 x M16, 17 x M12 cable grip                                      |            | 850-827  |
|    | <b>Item no.: 850-827/002-000</b><br>IP65 enclosure; Aluminium (RAL 7035); WxHxD (320x100x160 mm); 4 x M20, 8 x M16, 17 x M12 cable grip  | /002-000   | 850-827  |
|    | <b>Item no.: 850-828</b><br>IP65 enclosure; Aluminium (RAL 7032); WxHxD (480x100x160 mm); 4 x M20, 10 x M16, 35 x M12 cable grip         |            | 850-828  |
|    | <b>Item no.: 850-828/002-000</b><br>IP65 enclosure; Aluminium (RAL 7035); WxHxD (480x100x160 mm); 4 x M20, 10 x M16, 35 x M12 cable grip | /002-000   | 850-828  |
|    | <b>Item no.: 850-834</b><br>IP65 enclosure; Polyester (RAL 7032); WxHxD (164x100x164 mm); 9 x M12, 4 x M20                               |            | 850-834  |
|    | <b>Item no.: 850-835</b><br>IP65 enclosure; Polyester (RAL 7032); WxHxD (244x100x164 mm); 4 x M20, 4 x M16, 14 x M12 cable grip          |            | 850-835  |
|    | <b>Item no.: 850-836</b><br>IP65 enclosure; Polyester (RAL 7032); WxHxD (324x100x164 mm); 4 x M20, 8 x M16, 17 x M12 cable grip          |            | 850-836  |
| <b>memory card</b>   |  |            |          |
|   | <b>Item no.: 758-879/000-001</b><br>Memory Card SD; SLC-NAND; 2 GByte; Temperature from -40 to 90 °C                                     | /000-001   | 758-879  |
| <b>software</b>  |  |            |          |
|  | <b>Item no.: 2759-101/1110-2002</b><br>e!COCKPIT; Workstation License  | /1110-2002 | 2759-101 |
|  | <b>Item no.: 2759-101/1110-2005</b><br>e!COCKPIT; Multi-User License; 05 pcs   | /1110-2005 | 2759-101 |
|  | <b>Item no.: 2759-101/1110-2010</b><br>e!COCKPIT; Multi-User License; 10 pcs   | /1110-2010 | 2759-101 |
|  | <b>Item no.: 2759-101/1110-2015</b><br>e!COCKPIT; Multi-User License; 15 pcs   | /1110-2015 | 2759-101 |
|  | <b>Item no.: 2759-101/1110-2020</b><br>e!COCKPIT; Multi-User License; 20 pcs   | /1110-2020 | 2759-101 |
|  | <b>Item no.: 2759-101/1110-3000</b><br>e!COCKPIT; Site License   | /1110-3000 | 2759-101 |
|  | <b>Item no.: 2759-101/1110-4000</b><br>e!COCKPIT; Buy-out License  | /1110-4000 | 2759-101 |



**Item no.: 2759-247/210-1000**  
e!RUNTIME; Sparkplug; Single License

2759-247  
/210-1000



**Item no.: 2759-263/210-1000**  
e!RUNTIME; EtherCAT Master; 300; Single License

2759-263  
/210-1000



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

759-333



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

759-333  
/000-923



**Item no.: 759-911**  
WAGO-I/O-PRO; CD

759-911

#### shield connection



**Item no.: 790-108**  
Shield clamping saddle; 11 mm wide; diameter of compatible conductor

790-108



**Item no.: 790-116**  
Shield clamping saddle; 19 mm wide; diameter of compatible conductor; 7 ... 16 mm

790-116



**Item no.: 790-124**  
Shield clamping saddle; 27 mm wide; diameter of compatible conductor; 6 ... 24 mm

790-124



**Item no.: 790-140**  
Shield clamping saddle; diameter of compatible conductor

790-140



**Item no.: 790-208**  
Shield clamping saddle; 12.4 mm wide; 3 ... 8 mm

790-208



**Item no.: 790-216**  
Shield clamping saddle; 21.8 mm wide; 6 ... 16 mm

790-216



**Item no.: 790-220**  
Shield clamping saddle; 30 mm wide; 6 ... 20 mm

790-220

#### Marking accessories



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

2009-145



**Item no.: 2009-145/000-002**  
Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type; yellow

2009-145  
/000-002



**Item no.: 2009-145/000-005**  
Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type; red

2009-145  
/000-005

















**Item no.: 2009-145/000-006**  
Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type; blue

2009-145  
/000-006



**Item no.: 2009-145/000-007**  
Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type; gray

2009-145  
/000-007

|  |   |                      |
|--|---|----------------------|
|    | <b>Item no.: 2009-145/000-012</b><br>Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type; orange | 2009-145<br>/000-012 |
|    | <b>Item no.: 2009-145/000-023</b><br>Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type; green  | 2009-145<br>/000-023 |
|    | <b>Item no.: 2009-145/000-024</b><br>Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type; violet | 2009-145<br>/000-024 |
|    | <b>Item no.: 248-501</b><br>Miniature WSB Quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card          | 248-501              |
|    | <b>Item no.: 248-501/000-002</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow                      | 248-501<br>/000-002  |
|    | <b>Item no.: 248-501/000-005</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white                       | 248-501<br>/000-005  |
|    | <b>Item no.: 248-501/000-006</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white                       | 248-501<br>/000-006  |
|  | <b>Item no.: 248-501/000-007</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white                       | 248-501<br>/000-007  |
|  | <b>Item no.: 248-501/000-012</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white                       | 248-501<br>/000-012  |
|  | <b>Item no.: 248-501/000-017</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white                       | 248-501<br>/000-017  |
|  | <b>Item no.: 248-501/000-023</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white                       | 248-501<br>/000-023  |
|  | <b>Item no.: 248-501/000-024</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white                       | 248-501<br>/000-024  |
|  | <b>Item no.: 750-103</b><br>Group marker carrier  | 750-103              |
|  | <b>Item no.: 750-107</b><br>Group marker carrier  | 750-107              |

## Downloads

## Documentation

## 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 |
| PFC200 G2 2ETH RS CAN<br>2 x ETHERNET, RS-232 / RS-485, CAN, CANopen  | V 1.2.0<br>Jul 25, 2019   | pdf<br>5.5 MB   | Download |
| Cyber Security for Controller PFC100 / PFC200   | V 1.2.0                   | pdf<br>8.3 MB   | Download |
| e!RUNTIME EtherCAT® Master  | V 1.1.1<br>Jul 23, 2019   | pdf<br>879.5 kB | Download |
| e!COCKPIT Application Note WAGO Gateway Application<br>The WAGO Gateway Application for the WAGO 750-8212 PFC200 2nd Generation enables communication between different bus and/or communication systems and shortens the integration time. The user-friendly web interface allows the user to exchange information and measured values between different systems. The pre-configured application shortens startup times, especially in building technology. The WAGO Gateway Application currently enables communication with Modbus RTU, Modbus IP (TCP/UDP) and KNX-TP devices. Every conceivable combination is possible. | V 1.0.0.0<br>Apr 25, 2019 | pdf<br>8.7 MB   | Download |
| <b>Bid Text</b>   |                           |                 |          |
| 750-8214  |                           | doc<br>41.5 kB  | Download |
| <b>Tutorial</b>   |                           |                 |          |
| 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>Aug 5, 2017        | mp4<br>29.0 MB  | Download |
| 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>Dec 18, 2017       | mp4<br>88.3 MB  | Download |
| <b>Additional Information</b>   |                           |                 |          |
| Disposal; Electrical and electronic equipment, Packaging  | V 1.0.0                   | pdf<br>265.8 kB | Download |



|                            |                         |                 |          |
|----------------------------|-------------------------|-----------------|----------|
| e!RUNTIME EtherCAT® Master | V 1.1.1<br>Jul 23, 2019 | pdf<br>879.5 kB | Download |
|----------------------------|-------------------------|-----------------|----------|

### System Description

|  |  |                 |          |
|--|--|-----------------|----------|
| Controller PFC100/200, General Product Information |  | pdf<br>591.2 kB | Download |
|--|--|-----------------|----------|

|   |  |                 |          |
|---|--|-----------------|----------|
| Overview on WAGO-I/O-SYSTEM 750 approvals |  | pdf<br>780.2 kB | Download |
|---|--|-----------------|----------|

|  |         |               |          |
|--|---------|---------------|----------|
| Design Notes<br>Basic conditions and recommendations for higher operational safety | V 2.0.0 | pdf<br>1.5 MB | Download |
|--|---------|---------------|----------|

### Application Notes

#### Application Note CoDeSys 2.3

|   |       |                 |          |
|---|-------|-----------------|----------|
| WagoConfigToolLIB<br>The library WagoConfigToolLIB.lib library provides function blocks for accessing the device configuration (e.g., network settings, data and time, ongoing services). | 1.0.0 | pdf<br>349.1 kB | Download |
|---|-------|-----------------|----------|

|  |                     |               |          |
|--|---------------------|---------------|----------|
| ModuleAccess_01.lib<br>The ModuleAccess_01 library provides both module configuration and access to its process data within a CoDeSys project without the use of WAGO I/O Check. | 1.7<br>Jan 18, 2018 | zip<br>1.5 MB | Download |
|--|---------------------|---------------|----------|

|  |              |                 |          |
|--|--------------|-----------------|----------|
| Connection of Thermokon Multi-function room control units WRF 08<br>The fundamental way of carrying out the communication between the WAGO I/O System and the multi-function room operating panel (WRF08 RS485 Modbus) from Thermokon is described in this application note. | Apr 10, 2019 | zip<br>876.4 kB | Download |
|--|--------------|-----------------|----------|

|  |                            |                 |          |
|--|----------------------------|-----------------|----------|
| Application Note: DMX_02<br>This application note describes how a DMX master for DMX device control can be performed via 750-652 serial interface. | 26.04.2017<br>Apr 26, 2017 | zip<br>751.0 kB | 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.<br>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>Mar 22, 2019 | pdf<br>3.9 MB | Download |
|--|-----------------------|---------------|----------|

|  |              |               |          |
|--|--------------|---------------|----------|
| Application Note Library ModuleAccess_01<br>These instructions describe the use of the ModuleAccess_01.lib library using 4 examples. | Jan 29, 2016 | zip<br>1.0 MB | Download |
|--|--------------|---------------|----------|

|                                    |                         |               |          |
|------------------------------------|-------------------------|---------------|----------|
| Application Note: MpBus_03 Library | V 1.0.2<br>Apr 13, 2018 | zip<br>1.4 MB | Download |
|------------------------------------|-------------------------|---------------|----------|



This Application Note explains how a WAGO fieldbus controller sets up communication to the MP-bus actuators via the MP-bus master module (750-643).

|   |                                     |                         |                 |
|---|-------------------------------------|-------------------------|-----------------|
| <p>Application note Cloud Connectivity</p> <p>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 e!COCKPIT are used.</p> | <p>2019-07-17<br/>Jul 17, 2019</p>  | <p>zip<br/>4.1 MB</p>   | <p>Download</p> |
| <p>Application Note PowerMeasurement_03 Library</p> <p>This application note describes how current, voltage, effective power, power factor and energy consumption can be measured using 3-phase power measurement modules (750-493).</p>  | <p>19.01.2011<br/>Mar 19, 2012</p>  | <p>zip<br/>954.5 kB</p> | <p>Download</p> |
| <p>Application Note for the 750-494 3-Phase Power Measurement Module</p> <p>The application note for the 3-Phase Power Measurement Module 750-494 shows how the measured values of the power measurement module can be read. It is also shown how the power module can be configured using the WAGO-I/O-PRO- V2.3 visualization tool.</p>   | <p>24.01.2014<br/>Nov 11, 2014</p>  | <p>zip<br/>1.7 MB</p>   | <p>Download</p> |
| <p>Connection of Thermokon Multi-function room control units WRF 06</p> <p>The fundamental method of setting up communication between the WAGO I/O System and the multi-function room operating panel (WRF06 RS485 Modbus) from Thermokon is described in this application note.</p>  | <p>Apr 8, 2016</p>                  | <p>zip<br/>845.9 kB</p> | <p>Download</p> |
| <p>Connection of a Thermokon Thanos SR L MODBUS room control unit to the WAGO-I/O-SYSTEM</p> <p>The fundamental method of setting up communication between the WAGO I/O System and the Thanos SR L MODBUS room operating panel from Thermokon is described in this application note.</p>  | <p>02.05.2013<br/>May 13, 2013</p>  | <p>zip<br/>313.2 kB</p> | <p>Download</p> |
| <p>GRUNDFOS GENIbus interface, application note</p> <p>This application note describes how communication between the WAGO-I/O-SYSTEM and the Grundfos MAGNA series circulation pumps can be performed via GENIbus interface.</p>  | <p>20.03.2017<br/>Mar 20, 2017</p>  | <p>zip<br/>286.6 kB</p> | <p>Download</p> |
| <p>Application Note Data Plotter</p> <p>The Data Plotter is a Web application that can be used as a visualization tool for the data logger. It allows the user to graphically display data captured by the data logger library (WAGO_Datalogger_02.lib for CODESYS V2.3 and WagoAppDatalogger for e!COCKPIT from V1.2.100.6023).</p>  | <p>V 2019-07-04<br/>Jul 5, 2019</p> | <p>zip<br/>7.4 MB</p>   | <p>Download</p> |
| <p>HVAC System Macros</p> <p>WAGO provides system macros for HVAC applications that are based on Building_HVAC_03.lib.</p>  | <p>10.03.2017<br/>Mar 15, 2019</p>  | <p>zip<br/>13.6 MB</p>  | <p>Download</p> |
| <p>Application Note Connecting with an iPod Touch</p> <p>This Application Note explains the basic procedures for access to the WAGO Ethernet Controller 750-8xx or the WAGO Ethernet Coupler 750-3xx using an iPod Touch.</p>   | <p>30.03.2011<br/>Oct 28, 2011</p>  | <p>zip<br/>439.1 kB</p> | <p>Download</p> |



|   |                                    |                         |                 |
|---|------------------------------------|-------------------------|-----------------|
| <p>HLK-Anlagenmakros für TRIC</p> <p>In dieser Zip-Datei finden Sie Vorlagen und Makros für die Planungssoftware TRIC. TRIC ist ein Werkzeug für Planer und Errichter von HLK-Anlagen, das den Richtlinien der VOB, VDI und DIN EN ISO entspricht.</p>  | <p>Jul 10, 2015</p>                | <p>zip<br/>76.8 MB</p>  | <p>Download</p> |
| <p>Application Note Library WagoDatalogger_02</p> <p>This application note describes the use of the WagoDatalogger_02.lib library. Up to 80 analog or digital signals can be recorded.</p>  | <p>10.03.2016<br/>Apr 4, 2016</p>  | <p>zip<br/>1.3 MB</p>   | <p>Download</p> |
| <p>e!COCKPIT application note WagoLibCloud</p> <p>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 e!COCKPIT are used.</p> | <p>2019-07-17<br/>Jul 17, 2019</p> | <p>zip<br/>4.0 MB</p>   | <p>Download</p> |
| <p>Application Note: EnOcean_06 Library</p> <p>This application note describes how communication between the WAGO-I/O-SYSTEM and different EnOcean wireless sensors can be implemented using the EnOcean_06.lib library.</p>  | <p>30.11.2016<br/>Nov 30, 2016</p> | <p>zip<br/>842.0 kB</p> | <p>Download</p> |
| <p>Anbindung der HKW-Elektronik Wetterprognose-Station WS-K xx T ModBus</p> <p>Dieser Anwendungshinweis beschreibt, wie die Kommunikation zwischen dem WAGO-I/O-System und einer HKW-Elektronik Wettterprognose-Station Kompakt realisiert werden kann.</p>   | <p>V 1.1<br/>Jul 7, 2017</p>       | <p>zip<br/>781.1 kB</p> | <p>Download</p> |
| <p>Application Note Weather Station Elsner P03 Modbus</p> <p>This application note describes how communication can be set up between the WAGO I/O System and the ELSNER P03/3 weather station with a Modbus interface.</p>  | <p>01.12.2011<br/>Oct 28, 2011</p> | <p>zip<br/>275.6 kB</p> | <p>Download</p> |
| <p>Application Note Scheduler_03.lib</p> <p>This application note describes different applications of the Scheduler_03.lib library.</p>   | <p>May 20, 2011</p>                | <p>zip<br/>1.8 MB</p>   | <p>Download</p> |
| <p>Anwendungshinweis für die Steuerung eines Iigus robotlink</p> <p>Der Anwendungshinweis beschreibt anhand einer Demoapplikation die Steuerung eines Iigus robotlink® Roboterarms mit sechs Achsen. Als Steuerung wird ein Wago PFC200 (Art.-Nr. 750-8202) verwendet.</p>  | <p>12.11.2015<br/>Nov 12, 2015</p> | <p>zip<br/>1.3 MB</p>   | <p>Download</p> |
| <p>Connection of DMX devices to the WAGO-I/O-SYSTEM via the ArtNet-DMX STAGE-PROFI 1.1</p> <p>This application note describes connecting the ArtNet-DMX STAGE-PROFI 1.1 to the WAGO-I/O-SYSTEM. The ArtNet-DMX STAGE-PROFI 1.1 can be operated as a DMX master and a DMX slave.</p>   | <p>11.01.2013<br/>Jan 11, 2013</p> | <p>zip<br/>1.5 MB</p>   | <p>Download</p> |
| <p>Application Note for the 750-495 3-Phase Power Measurement Module</p> <p>The application note for the 3-Phase Power Measurement Module 750-495 shows how the measured values of the power measurement module can be read. It is also shown how the power module can be configured using the WAGO-I/O-PRO- V2.3 visualization tool.</p>   | <p>24.01.2014<br/>Jan 24, 2014</p> | <p>zip<br/>1.8 MB</p>   | <p>Download</p> |



|   |                                    |                       |                 |
|---|------------------------------------|-----------------------|-----------------|
| <p>HART Tool Routing via PROFIBUS with 750-833 and 750-333 (a116140)</p> <p>This application note describes how to set up asset management systems, which facilitate simple, efficient configuration of HART field devices.</p> <p>Using the Cerabar PMC51 (Endress+Hauser) as an example, connecting any HART sensor to a WAGO PROFIBUS controller and a WAGO PROFIBUS Coupler is explained. The cyclic PROFIBUS Master (750-8208) realizes the data exchange. As an acyclic master, a TH LINK PROFIBUS provides access for the plant asset management applications WAGOframe, PACTware and FieldCare.</p> | <p>1.0.0<br/>Mar 22, 2019</p>      | <p>pdf<br/>5.3 MB</p> | <p>Download</p> |
| <p>Application note for installing a MySQL-Server on a PFC-Controller</p> <p>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.</p>  | <p>V 1.0.4<br/>May 16, 2019</p>    | <p>zip<br/>4.5 MB</p> | <p>Download</p> |
| <p><b>Application Note e!COCKPIT</b></p>  |                                    |                       |                 |
| <p>SNMP Communication (a500850)</p> <p>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.</p>   | <p>V1.1.0<br/>Aug 19, 2019</p>     | <p>zip<br/>4.0 MB</p> | <p>Download</p> |
| <p>HART Tool Routing via ETHERNET with 750-820x and e!RUNTIME (a116130)</p> <p>This application note describes how to set up asset management systems, which facilitate simple, efficient configuration of HART field devices.</p> <p>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.</p>   | <p>1.0.0<br/>Mar 22, 2019</p>      | <p>pdf<br/>2.9 MB</p> | <p>Download</p> |
| <p>e!COCKPIT application note WagoLibCloud</p> <p>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 e!COCKPIT are used.</p>   | <p>2019-07-17<br/>Jul 17, 2019</p> | <p>zip<br/>4.0 MB</p> | <p>Download</p> |
| <p>eCOCKPIT application note installation MySQL-Server</p> <p>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.</p>   | <p>2019-07-10<br/>Jul 10, 2019</p> | <p>pdf<br/>1.9 MB</p> | <p>Download</p> |

## Libraries

|   |              |                         |                 |
|---|--------------|-------------------------|-----------------|
| <p>Library</p> <p>WagoConfigToolLIB</p> <p>The library WagoConfigToolLIB.lib library provides function blocks for accessing the device configuration (e.g., network settings, data and time, ongoing services).</p> | <p>1.0.0</p> | <p>pdf<br/>349.1 kB</p> | <p>Download</p> |
|---|--------------|-------------------------|-----------------|





|   |       |     |          |
|---|-------|-----|----------|
| WagoLibLed  | 1.0.0 | pdf | Download |
| This library contains function blocks that can be used for control and querying of the user LEDs and for querying of the status LEDs. Depending on the device design, not all of the user or status LEDs may be provided. |       |     |          |

516.5 kB

|   |       |     |          |
|---|-------|-----|----------|
| WagoLibNetSnmpManager   | 1.1.0 | pdf | Download |
| The "WagoLibNetSnmpManager.lib" library is used to implement SNMP manager functions. This makes it possible to access other SNMP agents as well as call and modify OIDs via an IEC program. |       |     |          |

1.1 MB

|  |       |     |          |
|--|-------|-----|----------|
| WagoLibDiagnosticIDs   | 1.0.0 | pdf | Download |
| This library is used to take part in an internal diagnostics protocol via an IEC-61131 application. You can define your own IDs and provide your own texts for this. You can also transmit your own diagnostics IDs. Diagnostics generated in this manner are saved in the system log and displayed in text form, for example, in the WBM. |       |     |          |

298.2 kB

|   |       |     |          |
|---|-------|-----|----------|
| WagoLibCpuUsage   | 1.0.0 | pdf | Download |
| This library enables you to determine the CPU load (usage). |       |     |          |

265.7 kB

|   |     |     |          |
|---|-----|-----|----------|
| ModuleAccess_01.lib   | 1.7 | zip | Download |
| The ModuleAccess_01 library provides both module configuration and access to its process data within a CoDeSys project without the use of WAGO I/O Check. |     |     |          |

Jan 18, 2018

1.5 MB

|  |     |     |          |
|--|-----|-----|----------|
| WAGO_Datalogger_02.lib   | 2.4 | zip | Download |
| The FbDatalogger function block logs entries from up to 80 channels at an interval of min. one second in a CSV file. |     |     |          |

Nov 13, 2017

678.0 kB

|   |        |     |          |
|---|--------|-----|----------|
| Library WagoLibCloud_02.lib   | V2.2.3 | 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. |        |     |          |

Apr 29, 2019

57.1 kB

## Engineering-Software

### e!COCKPIT

|  |         |     |          |
|--|---------|-----|----------|
| <i>e!COCKPIT</i>   | V 1.5.1 | ZIP | Download |
| Register at no cost and test our engineering software for 30 days. |         |     |          |

Jul 10, 2019

2.8 GB

### Configuration and Commissioning Software

|   |          |     |          |
|---|----------|-----|----------|
| WAGO-IO-PRO Demo-Version (759-912) / Serie 750, 758 und 762 | 2.3.9.55 | zip | Download |
|   |          |     |          |

Jul 3, 2015

108.3 MB

## Runtime Software

### Linux® Toolchain



## Linux® Board Support Package (BSP)

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

2018.2.8.FW(11)35  
Aug 27, 2018

TXT  
14.1 kB

[Download](#)

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

---

**Firmware**

Firmware: 750-8214 Controller PFC200; 2nd Generation; 2 x ETHERNET, RS-232/-485, CAN, CANopen; light gray

13  
Jul 11, 2019

zip  
83.4 MB

[Download](#)

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**IoT/ Cloud**
**Cloud Connectivity**

Cloud Connectivity beta version

Jun 4, 2019

ZIP  
8.7 MB

[Download](#)

Since January 2018, cloud connectivity has been a component of Firmware 11. Thus, all WAGO PFCs are inherently IoT-ready, so they can send data from the field level to the cloud via MQTT. Here, the data can be aggregated and used for analysis. New features are provided as beta versions. Register here at no cost to test the latest beta functions.

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**"Remote Access" Beta Software**

"Remote Access" Beta Software

V 0.9.0.2  
Jul 25, 2019

ZIP  
1.3 MB

[Download](#)

Register for the beta version of "Remote Access" for the WAGO Cloud.

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**CAD/CAE - Smart Data**
**CAD data**

3D Download 750-8214

URL

[Download](#)

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**Device Files**
**Device Description File**

750-914; EDS file for CANopen / 750, 752 and 767 Series

XR

zip

[Download](#)



Jul 30, 2019

1.7 MB

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#### Device Driver

750-914; EDS file for CANopen / 750, 752 and 767 Series

XR

zip

Download

Jul 30, 2019

1.7 MB

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#### Product family

**Controller 750**

Show all products from the family

Subject to changes.

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