

## Data sheet | Item number: 750-8212

Controller PFC200; 2nd Generation; 2 x ETHERNET, RS-232/-485

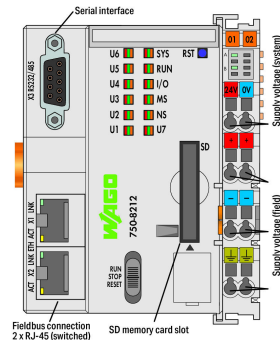
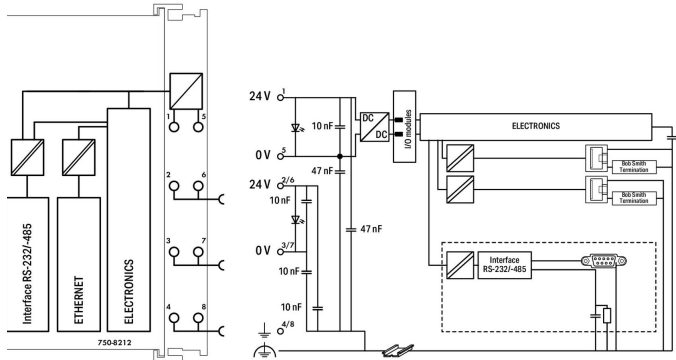
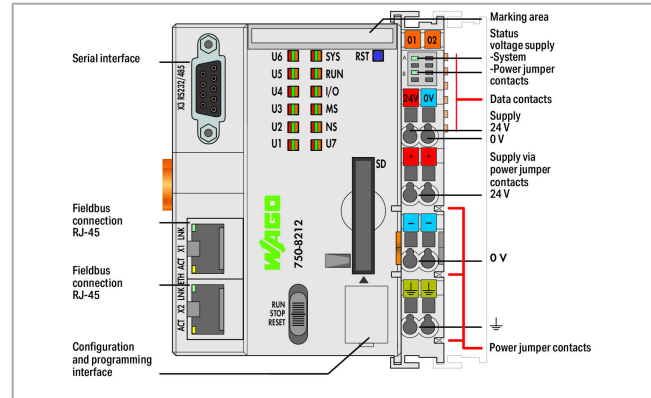
[www.wago.com/750-8212](http://www.wago.com/750-8212)



RoHS  
Compliant

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).

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

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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
- Linux operating system with RT-Preempt patch
- Configuration via CODESYS, *e!COCKPIT* or Web-Based Management interface
- Maintenance-free

## Data

### Technical data

|                                       |                                                                                                                                                                                                                                                                                            |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Communication                         | Modbus® RTU<br>EtherCAT Master (requires an additional license)<br>Modbus (TCP, UDP)<br>Ethernet<br>Modbus RTU<br>RS-232 serial interface<br>RS-485 Serial Interface<br><br>EtherNet/IP™ Adapter (slave), library for e!RUNTIME<br>EtherCAT Master, requires an additional license<br>MQTT |
| ETHERNET protocols                    | 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               | <i>e!COCKPIT</i> (based on CODESYS V3)<br>WAGO-I/O-PRO V2.3 (based on CODESYS V2.3)                                                                                                                                                                                                        |
| Configuration options                 | <i>e!COCKPIT</i><br>WAGO-I/O-CHECK<br>Web-based management                                                                                                                                                                                                                                 |

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



|                                                   | 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; 100 m maximum cable length                                                                                                                                                  |
| Main memory (RAM)                                 | 512 MB                                                                                                                                                                                                                   |
| Internal memory (flash)                           | 4096 MB                                                                                                                                                                                                                  |
| Non-volatile hardware memory                      | 128 Kbytes                                                                                                                                                                                                               |
| Program memory                                    | CODESYS V2: 16 MB; e!RUNTIME: 32 MB                                                                                                                                                                                      |
| Data memory                                       | CODESYS V2: 64 MB; e!RUNTIME: 128 MB                                                                                                                                                                                     |
| Non-volatile software memory                      | 128 Kbytes                                                                                                                                                                                                               |
| Non-volatile software memory                      | 128. Kbytes                                                                                                                                                                                                              |
| Memory card type                                  | SD and SDHC up to 32 GB (all guaranteed properties only valid with WAGO Memory Card)<br>SD and SDHC up to 32 GB (All guaranteed properties are only valid in connection with the WAGO 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 (internal) process image (max.)  | 1000 Worte/1000 Worte                                                                                                                                                                                                    |
| Input and output (MODBUS) process image (max.)    | CODESYS V2: 1000 Worte/1000 Worte; e!RUNTIME: 32000 Worte /32000 Worte                                                                                                                                                   |
| 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, B) green: Status of system power supply, field supply |
| Supply voltage (system)                           | 24 VDC (-25 ... +30 %); via pluggable connector (CAGE CLAMP® connection)<br>DC 24 V (-25 ... +30 %); via pluggable connector (CAGE CLAMP® connection)                                                                    |
| Input current (typ.) at nominal load (24 V)       | 550 mA                                                                                                                                                                                                                   |
| Total current (system supply)                     | 1,700 mA                                                                                                                                                                                                                 |
| Supply voltage (field)                            | 24 VDC (-25 ... +30 %); via power jumper contacts<br>DC 24 V (-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                                                                                                                                                                                                       |

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



## 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 serial 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 mm² / 28 ... 14 AWG                                                                                                                    |
| Fine-stranded conductor                       | 0.08 ... 2.5 mm² / 28 ... 14 AWG                                                                                                                    |
| Strip length                                  | 8 ... 9 mm / 0.31 ... 0.35 inch                                                                                                                     |
| Connection technology: device configuration   | 1 x Male connector; 4-pole                                                                                                                          |

## Physical data

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

## Mechanical data

|                    |                                                              |
|--------------------|--------------------------------------------------------------|
| Weight             | 214.8 g                                                      |
| Color              | light gray                                                   |
| Housing material   | Polycarbonate; polyamide 6.6<br>Polycarbonate, polyamide 6.6 |
| Conformity marking | CE                                                           |

## Environmental requirements

|                                          |                                                                                                                     |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Surrounding air temperature (operation)  | 0 ... 55 °C                                                                                                         |
| Surrounding air temperature (storage)    | -40 ... 85 °C                                                                                                       |
| Protection type                          | IP20                                                                                                                |
| Pollution degree (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); 5000 m (max.) |
| Relative humidity (without condensation) | 95 %                                                                                                                |
| Mounting position                        | any                                                                                                                 |
| Mounting type                            | DIN-35 rail                                                                                                         |
| Vibration resistance                     | 4g per IEC 60068-2-6                                                                                                |

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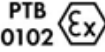
|                                                                                    |                                       |
|------------------------------------------------------------------------------------|---------------------------------------|
| Shock resistance                                                                   | 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                                                                          | 1.517 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

|                       |               |
|-----------------------|---------------|
| Packaging type        | BOX           |
| Country of origin     | DE            |
| GTIN                  | 4055143758789 |
| Customs tariff number | 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           |
| <br>Ex nA IIC T4 Gc | CCCEX<br>CQST/CNEx                                         | CNCA-C23-01              | 2020312310000213                |
|                      | EAC<br>Brjansker Zertifizierungsstelle                     | TP TC 012/2011           | EAC RU C-DE.AM02.B.<br>00163/19 |
|                      | IECEX<br>TUEV Nord Cert GmbH                               | IEC 60079-0              | IECEX_TUN_14.0035_X             |
|                      | UL<br>Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS) | UL 121201                | E198726 Sec.1                   |

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## Country specific Approvals

| Logo                                                                             | Approval                                      | Additional Approval Text | Certificate name                    |
|----------------------------------------------------------------------------------|-----------------------------------------------|--------------------------|-------------------------------------|
|  | <b>EAC</b><br>Brjansker Zertifizierungsstelle | TP TC 012/2011           | EAC RU C-DE.AM02.<br>B.00163<br>/19 |
|  | <b>KC</b><br>National Radio Research Agency   | Article 58-2, Clause 3   | MSIP-<br>REM-W43-<br>PFC750         |

## Ship Approvals

| Logo                                                                                | Approval                                                | Additional Approval Text | Certificate name      |
|-------------------------------------------------------------------------------------|---------------------------------------------------------|--------------------------|-----------------------|
|     | <b>ABS</b><br>American Bureau of Shipping               | -                        | 19-<br>HG1821926      |
|    | <b>DNV GL</b><br>Det Norske Veritas, Germanischer Lloyd | -                        | TAA0000194            |
|  | <b>LR</b><br>Lloyds Register                            | -                        | 02/20026<br>(E6)      |
|  | <b>PRS</b><br>Polski Rejestr Statków                    | -                        | TE/2236<br>/880590/19 |

## UL-Approvals

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

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

## Compatible products

### Marking accessories

|                                                                                    |                                                                                                                                                   |                                                                                  |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
|    | <b>Item no.: 2009-145</b><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white          | <a href="http://www.wago.com/2009-145">www.wago.com/2009-145</a>                 |
|    | <b>Item no.: 2009-145/000-002</b><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow | <a href="http://www.wago.com/2009-145/000-002">www.wago.com/2009-145/000-002</a> |
|    | <b>Item no.: 2009-145/000-005</b><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red    | <a href="http://www.wago.com/2009-145/000-005">www.wago.com/2009-145/000-005</a> |
|    | <b>Item no.: 2009-145/000-006</b><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue   | <a href="http://www.wago.com/2009-145/000-006">www.wago.com/2009-145/000-006</a> |
|    | <b>Item no.: 2009-145/000-007</b><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray   | <a href="http://www.wago.com/2009-145/000-007">www.wago.com/2009-145/000-007</a> |
|    | <b>Item no.: 2009-145/000-012</b><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange | <a href="http://www.wago.com/2009-145/000-012">www.wago.com/2009-145/000-012</a> |
|   | <b>Item no.: 2009-145/000-023</b><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green  | <a href="http://www.wago.com/2009-145/000-023">www.wago.com/2009-145/000-023</a> |
|  | <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</b><br>Miniature WSB Quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card                      | <a href="http://www.wago.com/248-501">www.wago.com/248-501</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.: 248-501/000-005</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.: 248-501/000-006</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>   |

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**Item no.: 248-501/000-012**

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

[www.wago.com/248-501/000-012](http://www.wago.com/248-501/000-012)**Item no.: 248-501/000-017**

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

[www.wago.com/248-501/000-017](http://www.wago.com/248-501/000-017)**Item no.: 248-501/000-023**

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

[www.wago.com/248-501/000-023](http://www.wago.com/248-501/000-023)**Item no.: 248-501/000-024**

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

[www.wago.com/248-501/000-024](http://www.wago.com/248-501/000-024)**Item no.: 750-103**

Group marker carrier; transparent

[www.wago.com/750-103](http://www.wago.com/750-103)**Item no.: 750-107**

Group marker carrier; transparent

[www.wago.com/750-107](http://www.wago.com/750-107)**software****Item no.: 2759-101/1110-2002**

e!COCKPIT; Workstation License

[www.wago.com/2759-101/1110-2002](http://www.wago.com/2759-101/1110-2002)**Item no.: 2759-101/1110-2005**

e!COCKPIT; Multi-User License; 05 pcs

[www.wago.com/2759-101/1110-2005](http://www.wago.com/2759-101/1110-2005)**Item no.: 2759-101/1110-2010**

e!COCKPIT; Multi-User License; 10 pcs

[www.wago.com/2759-101/1110-2010](http://www.wago.com/2759-101/1110-2010)**Item no.: 2759-101/1110-2015**

e!COCKPIT; Multi-User License; 15 pcs

[www.wago.com/2759-101/1110-2015](http://www.wago.com/2759-101/1110-2015)**Item no.: 2759-101/1110-2020**

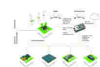
e!COCKPIT; Multi-User License; 20 pcs

[www.wago.com/2759-101/1110-2020](http://www.wago.com/2759-101/1110-2020)**Item no.: 2759-101/1110-3000**

e!COCKPIT; Site License

[www.wago.com/2759-101/1110-3000](http://www.wago.com/2759-101/1110-3000)**Item no.: 2759-101/1110-4000**

e!COCKPIT; Buy-out License

[www.wago.com/2759-101/1110-4000](http://www.wago.com/2759-101/1110-4000)**Item no.: 2759-203/211-1000**

Library Power Plant Control; VDE-AR-N 4110 / 4120; Single License; Online activation

[www.wago.com/2759-203/211-1000](http://www.wago.com/2759-203/211-1000)

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**Item no.: 2759-204/261-1000**

Application Lighting Management; Single License; Online activation

[www.wago.com/2759-204/261-1000](http://www.wago.com/2759-204/261-1000)
**Item no.: 2759-206/261-1000**

Application Energy Data Management; Single License; Online activation

[www.wago.com/2759-206/261-1000](http://www.wago.com/2759-206/261-1000)
**Item no.: 2759-207/271-1000**

Visualization Energy Data Management; Single License; Online activation

[www.wago.com/2759-207/271-1000](http://www.wago.com/2759-207/271-1000)
**Item no.: 2759-208/211-1000**

Library MTP; Single License; Online activation

[www.wago.com/2759-208/211-1000](http://www.wago.com/2759-208/211-1000)
**Item no.: 2759-2101/271-1000**

Visualization Lighting Management; S; Single License; Online activation

[www.wago.com/2759-2101/271-1000](http://www.wago.com/2759-2101/271-1000)
**Item no.: 2759-2102/271-1000**

Visualization Lighting Management; M; Single License; Online activation

[www.wago.com/2759-2102/271-1000](http://www.wago.com/2759-2102/271-1000)
**Item no.: 2759-2103/271-1000**

Visualization Lighting Management; L; Single License; Online activation

[www.wago.com/2759-2103/271-1000](http://www.wago.com/2759-2103/271-1000)
**Item no.: 2759-2110/261-1000**

Application flexROOM; Single License; Online activation

[www.wago.com/2759-2110/261-1000](http://www.wago.com/2759-2110/261-1000)
**Item no.: 2759-2283/211-1000**

e!RUNTIME; BACnet; 300; M; Single License; Online activation

[www.wago.com/2759-2283/211-1000](http://www.wago.com/2759-2283/211-1000)
**Item no.: 2759-241/261-1000**

Application Weather Station; Single License; Online activation

[www.wago.com/2759-241/261-1000](http://www.wago.com/2759-241/261-1000)
**Item no.: 2759-247/211-1000**

e!RUNTIME; Sparkplug; Single License; Online activation

[www.wago.com/2759-247/211-1000](http://www.wago.com/2759-247/211-1000)
**Item no.: 2759-263/211-1000**

e!RUNTIME; EtherCAT Master; 300; Single License; Online activation

[www.wago.com/2759-263/211-1000](http://www.wago.com/2759-263/211-1000)
**Item no.: 2759-283/211-1000**

e!RUNTIME; BACnet; 300; Single License; Online activation

[www.wago.com/2759-283/211-1000](http://www.wago.com/2759-283/211-1000)

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

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**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)



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

[www.wago.com/759-911](http://www.wago.com/759-911)

#### memory card



**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)

#### Carrier rail



**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; [www.wago.com/210-112](http://www.wago.com/210-112)  
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 [www.wago.com/210-113](http://www.wago.com/210-113)



**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; [www.wago.com/210-115](http://www.wago.com/210-115)  
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 [www.wago.com/210-118](http://www.wago.com/210-118)



**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)



**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; [www.wago.com/210-505](http://www.wago.com/210-505)  
silver-colored

**Item no.: 210-506**

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



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)

**shield connection**



**Item no.: 790-108**

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

[www.wago.com/790-108](http://www.wago.com/790-108)



**Item no.: 790-116**

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

[www.wago.com/790-116](http://www.wago.com/790-116)



**Item no.: 790-124**

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

[www.wago.com/790-124](http://www.wago.com/790-124)



**Item no.: 790-140**

Shield clamping saddle; diameter of compatible conductor

[www.wago.com/790-140](http://www.wago.com/790-140)



**Item no.: 790-208**

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

[www.wago.com/790-208](http://www.wago.com/790-208)



**Item no.: 790-216**

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

[www.wago.com/790-216](http://www.wago.com/790-216)



**Item no.: 790-220**

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

[www.wago.com/790-220](http://www.wago.com/790-220)

**system box**



**Item no.: 850-804**

IP65 enclosure; Stainless steel; WxHxD (400x123x200 mm); 4 x M20, 16 x M16, 28 x M12 cable grip

[www.wago.com/850-804](http://www.wago.com/850-804)



**Item no.: 850-804/000-001**

IP65 enclosure; Stainless steel; WxHxD (400x123x200 mm); 2 x M20, 13 x M16, 32 x M12 cable grip

[www.wago.com/850-804/000-001](http://www.wago.com/850-804/000-001)



**Item no.: 850-805**

IP65 enclosure; Stainless steel; WxHxD (600x123x200 mm); 4 x M20, 19 x M16, 67 x M12 cable grip

[www.wago.com/850-805](http://www.wago.com/850-805)



**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)

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

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|                                                                                    |                                                                                                                                          |                                                                                |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
|    | <b>Item no.: 850-825</b><br>IP65 enclosure; Aluminium (RAL 7032); WxHxD (160x100x160 mm); 9 x M12, 4 x M20                               | <a href="http://www.wago.com/850-825">www.wago.com/850-825</a>                 |
|    | <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          | <a href="http://www.wago.com/850-826">www.wago.com/850-826</a>                 |
|    | <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  | <a href="http://www.wago.com/850-826/002-000">www.wago.com/850-826/002-000</a> |
|    | <b>Item no.: 850-827</b><br>IP65 enclosure; Aluminium (RAL 7032); WxHxD (320x100x160 mm); 4 x M20, 8 x M16, 17 x M12 cable grip          | <a href="http://www.wago.com/850-827">www.wago.com/850-827</a>                 |
|    | <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  | <a href="http://www.wago.com/850-827/002-000">www.wago.com/850-827/002-000</a> |
|    | <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         | <a href="http://www.wago.com/850-828">www.wago.com/850-828</a>                 |
|    | <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 | <a href="http://www.wago.com/850-828/002-000">www.wago.com/850-828/002-000</a> |
|    | <b>Item no.: 850-834</b><br>IP65 enclosure; Polyester (RAL 7032); WxHxD (164x100x164 mm); 9 x M12, 4 x M20                               | <a href="http://www.wago.com/850-834">www.wago.com/850-834</a>                 |
|   | <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          | <a href="http://www.wago.com/850-835">www.wago.com/850-835</a>                 |
|  | <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          | <a href="http://www.wago.com/850-836">www.wago.com/850-836</a>                 |

## wiring and connectors

|                                                                                    |                                                                                                                    |                                                                                |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
|  | <b>Item no.: 750-975</b><br>ETHERNET RJ-45 connector, IP20; ETHERNET 10/100 Mbit/s; for field assembly; light gray | <a href="http://www.wago.com/750-975">www.wago.com/750-975</a>                 |
|  | <b>Item no.: 750-977/000-011</b><br>Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22               | <a href="http://www.wago.com/750-977/000-011">www.wago.com/750-977/000-011</a> |
|  | <b>Item no.: 750-977/000-012</b><br>Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22               | <a href="http://www.wago.com/750-977/000-012">www.wago.com/750-977/000-012</a> |
|  | <b>Item no.: 750-977/000-021</b><br>Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24               | <a href="http://www.wago.com/750-977/000-021">www.wago.com/750-977/000-021</a> |

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**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.: 750-978/000-011**

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.: 750-978/000-012**

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)**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.: 750-978/000-022**

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.: 750-979/000-012**

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.: 750-979/000-021**

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.: 750-979/000-022**

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)

#### General accessories

**Item no.: 750-921**

Bluetooth® Adapter; light gray

[www.wago.com/750-921](http://www.wago.com/750-921)**Item no.: 750-923**

Configuration cable; USB connector; Length: 2.5 m; black

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

#### Downloads

#### Documentation

#### Manual

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                         |                 |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------|----------|
| Manual 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. | 1.0.0.0<br>11. 11. 2019 | pdf<br>8.6 MB   | Download |
| Cyber Security for Controller PFC100 / PFC200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | V 1.2.0                 | pdf<br>8.3 MB   | Download |
| PFC200 G2 2ETH RS<br>Controller PFC200; 2nd Generation; 2 x ETHERNET, RS-232/-485                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | V 1.5.0<br>10. 12. 2020 | pdf<br>7.2 MB   | Download |
| WAGO Application flexROOM®<br>For the configuration of distribution boxes containing a PFC200 controller (750-8212).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | V 3.2.1<br>4. 2. 2021   | pdf<br>10.6 MB  | Download |
| 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 |
| e!RUNTIME EtherCAT® Master                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | V 1.1.1<br>17. 12. 2019 | pdf<br>879.5 kB | Download |
| Manual WAGO Application Weather Station<br>Weather Station makes data from the connected weather sensors, such as temperature, precipitation, wind speed and light intensity, available on a network for further processing and display in a visualization or a management system. It also provides central functions like weather protection, glare protection, automation based on the position of the sun (slat tracking) and timer programs.                                                                                                                                                          | 2.0.2<br>26. 8. 2020    | pdf<br>23.4 MB  | Download |
| Dokumentation Grid Gateway<br>Mithilfe der Applikation "Grid Gateway" können die Messwerte der Mittelspannung, des Transformators, der Niederspannungsabgänge, Stellungsmeldungen und Temperaturen von                                                                                                                                                                                                                                                                                                                                                                                                    | 1.0.0.0<br>18. 2. 2021  | pdf<br>7.5 MB   | Download |

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der Ortsnetzstation an die Netzleittechnik übermittelt werden. Die Kommunikation erfolgt über das Protokoll IEC60870-5-104. Befehle und Sollwerte lassen sich ebenfalls empfangen und verarbeiten. Externe Messtechnik wie Kurzschluss-Erdschlussrichtungsanzeiger lassen sich über Modbus RTU parametrieren. Die gesamte Parametrierung kann bei Bedarf auf weitere Stationen übertragen werden. Eine Messdatensimulation ermöglicht es, neue Ortsnetzstationen schon beim Stationsbauer an der Netzleittechnik in Betrieb zu nehmen, ohne dass die Feldseite angeschlossen ist.

|                                                                                |                       |               |          |
|--------------------------------------------------------------------------------|-----------------------|---------------|----------|
| Systemhandbuch WAGO I/O System 750 / 753<br>Dezentrale Automatisierungstechnik | V 3.0.0<br>4. 3. 2021 | pdf<br>6.6 MB | Download |
|--------------------------------------------------------------------------------|-----------------------|---------------|----------|

#### Bid Text

|                         |             |                |          |
|-------------------------|-------------|----------------|----------|
| 750-8212<br>X81 - Datei | 19. 2. 2019 | xml<br>10.1 kB | Download |
|-------------------------|-------------|----------------|----------|

|                          |              |                 |          |
|--------------------------|--------------|-----------------|----------|
| 750-8212<br>docx - Datei | 21. 11. 2018 | docx<br>22.4 kB | Download |
|--------------------------|--------------|-----------------|----------|

#### Tutorial

|                                                                                                                                                                                                                                                                                                                                                               |                     |                |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------|----------|
| 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>18. 12. 2017 | 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>5. 8. 2017 | mp4<br>29.0 MB | Download |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------|----------|

#### Additional Information

|                                                          |         |                 |          |
|----------------------------------------------------------|---------|-----------------|----------|
| 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>17. 12. 2019 | pdf<br>879.5 kB | Download |
|----------------------------|-------------------------|-----------------|----------|

|                    |         |     |          |
|--------------------|---------|-----|----------|
| WAGO OPC UA Server | V 1.1.0 | pdf | Download |
|--------------------|---------|-----|----------|

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28. 1. 2021

1.2 MB

## Compatibility Information

|                                                                                                                                           |         |          |          |
|-------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|----------|
| Compatibility List DALI Sensors                                                                                                           | V 1.2.0 | pdf      | Download |
| This application note shows all DALI Sensors which are compatible with CODESYS V2. 24. 9. 2020                                            |         | 511.7 kB |          |
| 3 applications, e!Cockpit applications, the WAGO Lighting Management software, the WAGO flexROOM®software and the WAGO DALI Configurator. |         |          |          |

## System Description

|                                                    |  |          |          |
|----------------------------------------------------|--|----------|----------|
| Controller PFC100/200, General Product Information |  | pdf      | Download |
|                                                    |  | 591.2 kB |          |
| Overview on WAGO-I/O-SYSTEM 750 approvals          |  | pdf      | Download |
|                                                    |  | 780.2 kB |          |

## Application Notes

### Application Note CoDeSys 2.3

|                                                                                                                           |         |        |          |
|---------------------------------------------------------------------------------------------------------------------------|---------|--------|----------|
| Application note for installing a MySQL-Server on a PFC-Controller                                                        | V 1.0.4 | zip    | Download |
| This Application Note explains how a MySQL-Server can be set up and used on a PFC 16. 5. 2019                             |         | 4.5 MB |          |
| 200. The Application shows how measurement values of the 3-Phase Power Measurement Module can be written into a database. |         |        |          |

|                                                                                                                                                                                                                                                                                                                        |            |        |          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------|----------|
| Application Note Data Plotter                                                                                                                                                                                                                                                                                          | 2020-09-17 | zip    | Download |
| The Data Plotter is a Web application that can be used as a visualization tool for the data logger in CODESYS V2.3 and e!COCKPIT. 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). |            | 6.7 MB |          |

|                                                                                                                                                                         |       |            |          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|----------|
| Anbindung der HKW-Elektronik Wetterprognose-Station WS-K xx T ModBus                                                                                                    | V 1.1 | zip        | Download |
| Dieser Anwendungshinweis beschreibt, wie die Kommunikation zwischen dem WAGO-I/O-System und einer HKW-Elektronik Wetterprognose-Station Kompakt realisiert werden kann. |       | 7. 7. 2017 | 781.1 kB |

|                                                                                           |            |             |          |
|-------------------------------------------------------------------------------------------|------------|-------------|----------|
| HVAC System Macros                                                                        | 10.03.2017 | zip         | Download |
| WAGO provides system macros for HVAC applications that are based on Building_HVAC_03.lib. |            | 15. 3. 2019 | 13.6 MB  |

|                                                                                                                                                                                                                                                           |            |             |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------|----------|
| Application Note for the 750-495 3-Phase Power Measurement Module                                                                                                                                                                                         | 24.01.2014 | zip         | Download |
| 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. |            | 24. 1. 2014 | 1.8 MB   |

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|                                                                                                                                                                                                                                                                                                                                                                                                 |                            |                 |                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------|--------------------------|
| <b>Application note Cloud Connectivity</b><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 e!COCKPIT are used. | 2019-09-17<br>17. 9. 2019  | zip<br>4.1 MB   | <a href="#">Download</a> |
| <b>Application Note: EnOcean_06 Library</b><br>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.                                                                                                                                                                        | 30.11.2016<br>30. 11. 2016 | zip<br>842.0 kB | <a href="#">Download</a> |
| <b>HLK-Anlagenmakros für TRIC</b><br>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.                                                                                                                                              | 2015-07-10<br>10. 7. 2015  | zip<br>76.8 MB  | <a href="#">Download</a> |
| <b>Application Note for the 750-494 3-Phase Power Measurement Module</b><br>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.                                                           | 24.01.2014<br>11. 11. 2014 | zip<br>1.7 MB   | <a href="#">Download</a> |
| <b>Connection of Thermokon Multi-function room control units WRF 06</b><br>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.                                                                                                                | 10.04.2019<br>8. 4. 2016   | zip<br>845.9 kB | <a href="#">Download</a> |
| <b>Application Note Connecting with an iPod Touch</b><br>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.                                                                                                                                                                       | 30.03.2011<br>28. 10. 2011 | zip<br>439.1 kB | <a href="#">Download</a> |
| <b>Application Note Library WagoDatalogger_02</b><br>This application note describes the use of the WagoDatalogger_02.lib library. Up to 80 analog or digital signals can be recorded.                                                                                                                                                                                                          | 2020-05-20<br>20. 5. 2020  | zip<br>1.3 MB   | <a href="#">Download</a> |
| <b>Application Note: DMX_02</b><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>26. 4. 2017  | zip<br>751.0 kB | <a href="#">Download</a> |
| <b>Connection of Thermokon Multi-function room control units WRF 08</b><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.                                                                                                             | 10.04.2019<br>10. 4. 2019  | zip<br>876.4 kB | <a href="#">Download</a> |

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                    |                         |                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-------------------------|-----------------|
| <p>Application note: DALI 753-647 Configuration Interface</p> <p>This application note describes the WAGO DALI Configurator, the integration of the DALI visualization for configuring various sensor types and the implementation in a program.</p>                                                                                                                                                                                                                                                                     | <p>V1.0.2<br/>29. 4. 2019</p>      | <p>zip<br/>3.1 MB</p>   | <p>Download</p> |
| <p>Anwendungshinweis für die Steuerung eines Igus robolink</p> <p>Der Anwendungshinweis beschreibt anhand einer Demoapplikation die Steuerung eines Igus robolink® Roboterarms mit sechs Achsen. Als Steuerung wird ein Wago PFC200 (Art.-Nr. 750-8202) verwendet.</p>                                                                                                                                                                                                                                                   | <p>12.11.2015<br/>12. 11. 2015</p> | <p>zip<br/>1.3 MB</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/>13. 5. 2013</p>  | <p>zip<br/>313.2 kB</p> | <p>Download</p> |
| <p>Erreichen der Linuxkonsole des PFC200 (a100701)</p> <p>Besonders bei Linux-basierten Geräten kann die Verwendung der Linux-Konsole des Gerätes dem Entwickler helfen schnell an benötigte Informationen z.B. über die Konfiguration des Gerätes zu gelangen. Dieser Anwendungshinweis beschreibt verschiedene gängige Methoden die Linux-Konsole eines PFC200 von einem PC aus zu Erreichen und zu Verwenden und mögliche Hürden, die dabei existieren.</p>                                                           | <p>V1.0.0<br/>29. 8. 2016</p>      | <p>zip<br/>521.3 kB</p> | <p>Download</p> |
| <p>HART Tool Routing via ETHERNET with 750-820x/750-88x and CODESYS 2.3 (a116120)</p> <p>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.</p> | <p>1.0.0<br/>22. 3. 2019</p>       | <p>pdf<br/>3.9 MB</p>   | <p>Download</p> |
| <p>Using the web visualization with Java™ runtime environment (JRE, JVM) 7 update 51 (7u51) (a500690)</p> <p>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.</p>                                                                                                           | <p>V1.2.4<br/>26. 2. 2019</p>      | <p>zip<br/>5.0 MB</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>20.05.2011<br/>20. 5. 2011</p>  | <p>zip<br/>1.8 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/>19. 3. 2012</p>  | <p>zip<br/>954.5 kB</p> | <p>Download</p> |

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|                                                                                                                                                                                                                                                                                                                                                                                              |                            |                 |          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------|----------|
| Application Note Weather Station Elsner P03 Modbus<br>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.                                                                                                                                                                              | 01.12.2011<br>28. 10. 2011 | zip<br>275.6 kB | Download |
| GRUNDFOS GENIbus interface, application note<br>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.                                                                                                                                                                        | 20.03.2017<br>20. 3. 2017  | zip<br>286.6 kB | Download |
| Connection of DMX devices to the WAGO-I/O-SYSTEM via the ArtNet-DMX STAGE-PROFI 1.1<br>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.                                                                                                                     | 11.01.2013<br>11. 1. 2013  | zip<br>1.5 MB   | Download |
| Application Note Library ModuleAccess_01<br>These instructions describe the use of the ModuleAccess_01.lib library using 4 examples.                                                                                                                                                                                                                                                         | 05.01.2016<br>29. 1. 2016  | zip<br>1.0 MB   | Download |
| Application Note: MpBus_03 Library<br>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).                                                                                                                                                                                                    | 2020-08-14<br>14. 8. 2020  | zip<br>526.0 kB | Download |
| <b>Application Note e!COCKPIT</b>                                                                                                                                                                                                                                                                                                                                                            |                            |                 |          |
| Application Note Data Plotter<br>The Data Plotter is a Web application that can be used as a visualization tool for the data logger in CODESYS V2.3 and e!COCKPIT. 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).                                      | 2020-09-17<br>17. 9. 2020  | zip<br>6.7 MB   | Download |
| SNMP Communication (a500850)<br>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.                                                                     | V1.1.0<br>20. 2. 2020      | zip<br>3.8 MB   | Download |
| e!COCKPIT application note WagoAppCloud<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 e!COCKPIT are used. | 2020-11-27<br>27. 11. 2020 | zip<br>2.8 MB   | Download |
| eCOCKPIT application note installation MySQL-Server                                                                                                                                                                                                                                                                                                                                          | 2019-09-09<br>9. 9. 2019   | pdf<br>1.9 MB   | Download |

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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.

|                                                                                                                                                                                                                                                                                                                                                                                                                             |             |        |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------|----------|
| 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. | 22. 3. 2019 | 2.9 MB |          |

## Libraries

### Library

|                                                                                                                                                                                                                                                                                                                                            |             |          |          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------|----------|
| WagoLibCpuUsage                                                                                                                                                                                                                                                                                                                            | 1.0.0       | pdf      | Download |
| This library enables you to determine the CPU load (usage).                                                                                                                                                                                                                                                                                |             | 265.7 kB |          |
| WagoConfigToolLIB                                                                                                                                                                                                                                                                                                                          | 1.0.0       | pdf      | Download |
| The library WagoConfigToolLIB.lib library provides function blocks for accessing the device configuration (e.g., network settings, data and time, ongoing services).                                                                                                                                                                       | 8. 10. 2013 | 349.1 kB |          |
| Library WagoLibCloud_02.lib                                                                                                                                                                                                                                                                                                                | V2.2.4      | zip      | Download |
| Die Bibliothek dient zur Kommunikation des WAGO Controller PFC100 und PFC200 mit Cloud Diensten wie Microsoft Azure (WAGO Cloud), Amazon AWS und IBM Bluemix. Daten können zur Cloud gesendet und Kommandos von der Cloud empfangen werden.                                                                                                | 21. 1. 2020 | 57.6 kB  |          |
| ModuleAccess_01.lib                                                                                                                                                                                                                                                                                                                        | 1.8.7       | 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.                                                                                                                                                                                  | 27. 1. 2020 | 2.2 MB   |          |
| WAGO_Datalogger_02.lib                                                                                                                                                                                                                                                                                                                     | 2.7         | zip      | Download |
| The FbDatalogger function block logs entries from up to 80 channels at an interval of min. one second in a CSV file.                                                                                                                                                                                                                       | 20. 5. 2020 | 678.8 kB |          |
| 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 |          |
| WagoLibLed                                                                                                                                                                                                                                                                                                                                 | 1.0.0       | pdf      | Download |
|                                                                                                                                                                                                                                                                                                                                            |             | 516.5 kB |          |

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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.

|                                                                                                                                                                                             |       |               |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------|----------|
| WagoLibNetSnmpManager                                                                                                                                                                       | 1.1.0 | pdf<br>1.1 MB | 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. |       |               |          |

## Engineering-Software

### e!COCKPIT

|                                                                    |                      |               |          |
|--------------------------------------------------------------------|----------------------|---------------|----------|
| e!COCKPIT                                                          | V 1.8<br>2. 12. 2020 | ZIP<br>3.0 GB | Download |
| Register at no cost and test our engineering software for 30 days. |                      |               |          |

### Configuration and Commissioning Software

|                                                             |                        |                 |          |
|-------------------------------------------------------------|------------------------|-----------------|----------|
| WAGO-IO-PRO Demo-Version (759-912) / Serie 750, 758 und 762 | 2.3.9.61<br>3. 7. 2015 | zip<br>372.0 MB | Download |
|-------------------------------------------------------------|------------------------|-----------------|----------|

## Runtime Software

### Linux® Toolchain

|                                                                                                                                                          |                                  |                |          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------|----------|
| Linux® Board Support Package (BSP)                                                                                                                       | 2018.2.8.FW(11)35<br>27. 8. 2018 | TXT<br>14.1 kB | Download |
| 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. |                                  |                |          |

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: 750-8212 Controller PFC200; 2nd Generation; 2 x ETHERNET, RS-232/-485 | 18<br>22. 12. 2020 | zip<br>117.8 MB | Download |
|---------------------------------------------------------------------------------|--------------------|-----------------|----------|

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## Software Solutions (Applications)

### Energy data management

|                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |          |          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------|----------|
| Energy Data Management Application                                                                                                                                                                                                                                                                                                                                                                                                                   | 2021-01-14  | ZIP      | Download |
| With our energy data management, EDM, solution, you can record and visualize your measurement data of different media and parameters in no time. Continuous collection and monitoring provide the basis for the resource-efficient energy usage – the environment will thank you and your operating costs will be minimized. And by the way, the normative conformity according to DIN EN 50001 for the energetic evaluation is part of the package. | 14. 1. 2021 | 374.0 MB |          |

### Application-Based Controller Redundancy

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |          |          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------|----------|
| Application-Based Controller Redundancy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2021-02-15  | zip      | Download |
| Increase availability in central ship alarm systems with WAGO's Application-Based Controller Redundancy (ACR).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 15. 2. 2021 | 387.2 MB |          |
| <p>The licensed software library (2759-0245/0211-1000) and an <i>e!COCKPIT</i> redundancy framework (LINK) allows you to easily program and operate redundant master PLCs in single point of failure (SPOF) tolerant systems.</p> <p>A large number of the available 750 Series I/O Modules can be integrated into the system via Smart Couplers. These decentralized PLCs automatically recognize the input and output modules, which makes commissioning easy. The redundant communication of the two Master PLCs and the Smart Couplers is performed either via two separate networks (Dual-LAN) or a ring topology.</p> <p>These Master PLCs (2nd generation PEC200) communicate with higher-level SCADA systems, for example, via the Modbus TCP protocol.</p> <p>The application notes (a2020003 and a2020004) describe the practical use of the library and define the application area and the maximum number of participants within the system.</p> |             |          |          |

### Weather-Station

|                                                                                                                                                                                                                                                                                                                                       |             |          |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------|----------|
| Weather Station Application                                                                                                                                                                                                                                                                                                           | 2.0.2       | ZIP      | Download |
| WAGO Weather Station makes all the relevant sensor data, such as temperature, precipitation, wind speed and light intensity, available for further processing and display in a visualization or a management system. Weather sensors from different manufacturers can be recorded on digital inputs and analog inputs and via RS-485. | 31. 8. 2020 | 106.0 MB |          |
| It provides central functions like weather protection, automated glare protection and timer programs. The slat tracking based on the position of the sun ensures that the maximum amount of daylight is allowed into rooms while avoiding glare.                                                                                      |             |          |          |

### Lighting management

|                                                                                                                                                                                                                                                                                                                                                                                                          |            |          |          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------|----------|
| Lighting Management Application                                                                                                                                                                                                                                                                                                                                                                          | 2021-02-01 | ZIP      | Download |
| WAGO Lighting Management is a highly sophisticated solution for lighting control in large spaces such as production facilities and warehouses. Using a combination of predefined hardware and user-friendly software, WAGO offers a lighting management system that facilitates the design and commissioning of new lighting systems while providing numerous additional advantages for their operation. | 3. 2. 2021 | 224.0 MB |          |

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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.



## IoT/ Cloud

### "Remote Access" Beta Software

|                                                                      |             |        |          |
|----------------------------------------------------------------------|-------------|--------|----------|
| "Remote Access" Beta Software                                        | V 0.11.0.0  | ZIP    | Download |
| Register for the beta version of "Remote Access" for the WAGO Cloud. | 1. 12. 2020 | 2.1 MB |          |

## CAD/CAE-Data

### CAD data

|                       |     |          |
|-----------------------|-----|----------|
| 2D/3D Models 750-8212 | URL | Download |
|-----------------------|-----|----------|

### CAE data

|                       |     |          |
|-----------------------|-----|----------|
| ZUKEN Portal 750-8212 | URL | Download |
|-----------------------|-----|----------|

|                            |     |          |
|----------------------------|-----|----------|
| EPLAN Data Portal 750-8212 | URL | Download |
|----------------------------|-----|----------|

## Environmental Product Compliance

### Compliance Search

|                                                              |     |          |
|--------------------------------------------------------------|-----|----------|
| Environmental Product Compliance 750-8212                    | URL | Download |
| Controller PFC200; 2nd Generation; 2 x ETHERNET, RS-232/-485 |     |          |

## Installation Notes

## Product family

### Controller 750

[Show all products from the family](#)

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