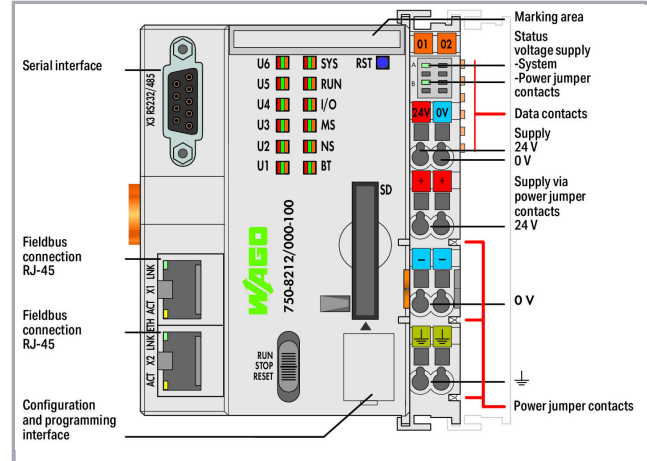




**Data sheet | Item number: 750-8212/000-100**

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

[www.wago.com/750-8212/000-100](http://www.wago.com/750-8212/000-100)



RoHS  Compliant

BOMcheck.net

Color:

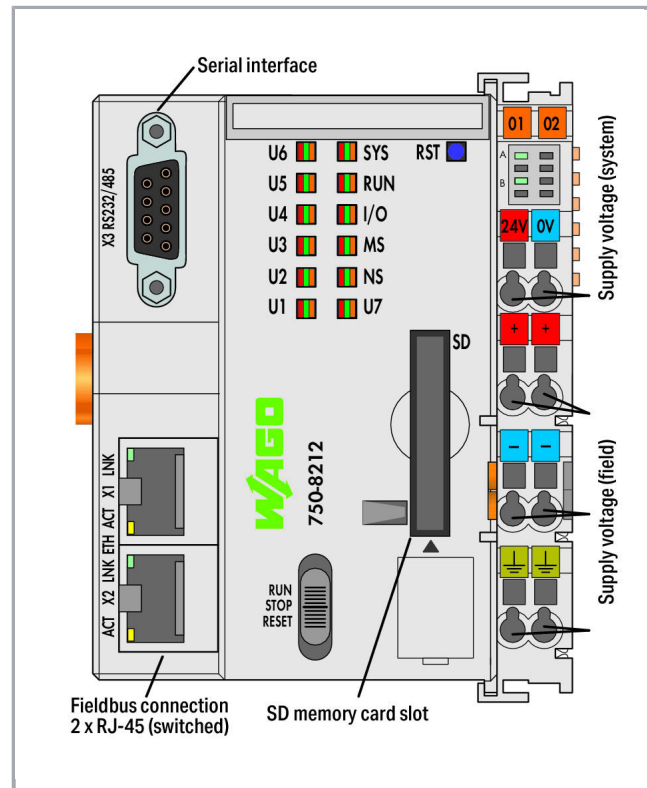
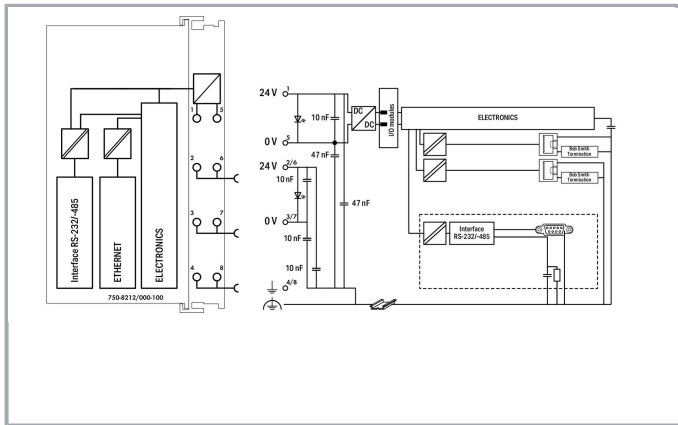
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## Data sheet | Item number: 750-8212/000-100

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### Item description

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

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

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

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

Programming per IEC 61131-3

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

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**Data sheet | Item number: 750-8212/000-100**[www.wago.com/750-8212/000-100](http://www.wago.com/750-8212/000-100)**Data****Technical Data**

|  |  |
|--|--|
| Communication                                | BACnet/IP<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                      | e!COCKPIT (based on CODESYS V3)  |
| Configuration options                        | e!COCKPIT<br>WAGO-I/O-CHECK<br>Web-based management<br>e!RUNTIME Library<br>CODESYS Library  |
| Baud rate (communication/fieldbus 1)         | 10/100 Mbit/s  |
| Baud rate                                    | ETHERNET: 10/100 Mbit/s  |
| Transmission medium (communication/fieldbus) | ETHERNET: Twisted Pair S-UTP; 100 Ω; Cat. 5; 100 m maximum cable length  |
| Main memory (RAM)                            | 512 MB   |
| Internal memory (flash)                      | 4000 MB  |
| Non-volatile hardware memory                 | 128 Kbytes   |

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|   |  |
|---|--|
| Program memory                                    | 60 MB (Program and data memory (dynamically distributed))  |
| Data memory                                       | 60 MB Program and data memory (dynamically distributed)  |
| 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 758-879/000-001 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  |
| Indicators  | LED (SYS; RUN; I/O; BT; U1 ... U6) red/green/orange: Status of system; program; local data bus; BACnet; status programmable by user (can be used via CODESYS library); LED (A, B) green: Status of system power supply; field supply |
| Supply voltage (system)                           | 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 (actuator)                         | ,  |
| Supply voltage (field)                            | 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   |

**Connection data**

|   |   |
|---|---|
| Connection technology: communication/fieldbus | BACnet/IP: 2 x RJ-45; 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 mm <sup>2</sup> / 28 ... 14 AWG  |
| Fine-stranded conductor                       | 0.08 ... 2.5 mm <sup>2</sup> / 28 ... 14 AWG  |
| Strip length                                  | 8 ... 9 mm / 0.31 ... 0.35 inch   |
| Connection technology: Device configuration   | 1 x Male connector; 4-pole  |

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**Data sheet | Item number: 750-8212/000-100**[www.wago.com/750-8212/000-100](http://www.wago.com/750-8212/000-100)**Geometrical 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           | 213.7 g                      |
| Color            | light gray                   |
| Housing material | Polycarbonate, polyamide 6.6 |

**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  |
| 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  | 0.485 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  |

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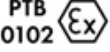


## Data sheet | Item number: 750-8212/000-100

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|                       |               |
|-----------------------|---------------|
| GTIN                  | 4055143878326 |
| 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 |
|  | IECEX<br>TUEV Nord Cert GmbH                               | IEC 60079                | IECEX_TUN_14.0035_X   |
|  | UL<br>Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS) | UL 121201                | E198726 Sec.1         |

## Ship Approvals

| Logo   | Approval   | Additional Approval Text | Certificate name                 |
|--|--|--------------------------|----------------------------------|
|  | BACnet<br>WSP Cert                               | -                        | Listing information<br>BTL-30466 |
|  | DNV GL<br>Det Norske Veritas, Germanischer Lloyd | -                        | TAA0000194                       |

## Other Approvals

| Logo   | Approval           | Additional Approval Text | Certificate name                 |
|--|--------------------|--------------------------|----------------------------------|
|  | BACnet<br>WSP Cert | -                        | Listing information<br>BTL-30466 |

## UL-Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|------|----------|--------------------------|------------------|
|      | UL       | UL 61010-2-201           | E175199          |

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Underwriters Laboratories Inc. (ORDINARY LOCATIONS)

Sec11

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## Product family

### Controller PFC

<div>Die Steuerungen der Serie PFC200 stehen für vielfältige Aufgaben in der Industrie- Prozess- und Gebäudeautomation.</div>

[Show all products from the family](#)

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