

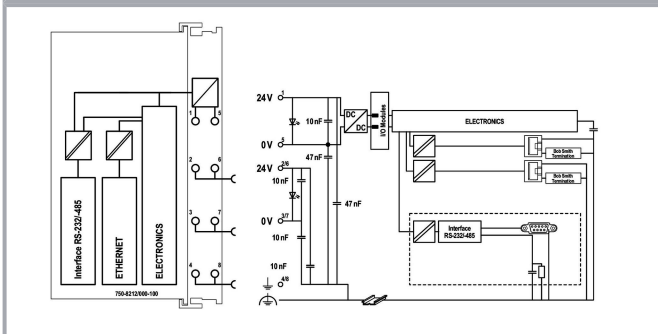
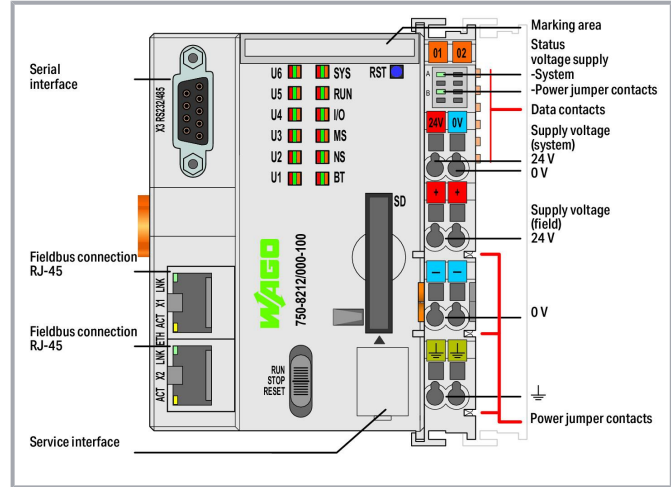
Data sheet | Item number: 750-8212/000-100

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

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



Color:



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

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PFC200 Communication Options Overview

CPU	On Board												Product extensions				Description	Item No. Standard	Ext. Temperature		
	Modbus (TCP, Modbus/RTU)**	PROFINET	PROFIBUS-DP	PROFIBUS-PA	RS-485	RS-232C	RS-422	RS-485	RS-232C	RS-422	RS-485	RS-232C	RS-422	RS-485	RS-232C	RS-422				RS-485	
Cortex AB; 1 GHz	M	S	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	Controller PFC200; 2nd Generation; 4 x ETHERNET	750-8210	750-8210020-000
Cortex AB; 1 GHz	M	S	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	Controller PFC200; 2nd Generation; 2 x ETHERNET, 2 x SFP Ports	750-8211	
Cortex AB; 1 GHz	M	S	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	Controller PFC200; 2nd Generation; 2 x ETHERNET, RS-232C-485	750-8212	750-8212020-000
Cortex AB; 1 GHz	M	S	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	Telecontrol Technology; Telecontrol Technology; EDO		750-8212020-001 750-8212020-002
Cortex AB; 1 GHz	M	S	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	IBADiNet/IP	750-8212/000-100	
Cortex AB; 1 GHz	M	S	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	Controller PFC200; 2nd Generation; 2 x ETHERNET, CAN, CANopen	750-8213	
Cortex AB; 1 GHz	M	S	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	Controller PFC200; 2nd Generation; 2 x ETHERNET, RS-232C-485, CAN, CANopen	750-8214	
Cortex AB; 1 GHz	M	S	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	Controller PFC200; 2nd Generation; 4 x ETHERNET, CAN, CANopen, USB	750-8215	
Cortex AB; 1 GHz	M	S	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	Controller PFC200; 2nd Generation; 2 x ETHERNET, RS-232C-485, CAN, CANopen, PROFIBUS Slave	750-8216	750-8216020-000
Cortex AB; 1 GHz	M	S	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	Telecontrol Technology		750-8216020-001
Cortex AB; 1 GHz	M	S	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	Controller PFC200; 2nd Generation; 2 x ETHERNET, RS-232C-485, Mobile Radio Module; EU version	750-8217	750-8217020-000
Cortex AB; 1 GHz	M	S	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	Global version	750-8217/000-000	750-8217020-000
Cortex AB; 600 MHz	M	S	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	Controller PFC200; 2 x ETHERNET, RS-232C-485, CAN, CANopen, PROFIBUS-Master	750-8208	750-8208020-000
	M	S	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	Telecontrol Technology		750-8208020-001

M: Master, S: Slave; \*requires an additional license; \*\*in preparation; \*\*\*WagoAppPfcModbus Library

## 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).

### Advantages:

- Programming per IEC 61131-3
- Programmable via CODESYS 3.5 with FW23 and above
- Programmable via *e!COCKPIT* with FW22
- Direct connection of WAGO's I/O modules

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



- 2 x ETHERNET (configurable), RS-232/485
- Linux operating system with RT-Preempt patch
- Configuration via *e!COCKPIT* or Web-Based Management interface
- Maintenance-free

## Data

### Technical data

Communication	BACnet/IP Modbus TCP master/slave Modbus (UDP), WagoAppPlcModbus Library Modbus (RTU), WagoAppPlcModbus Library ETHERNET EtherNet/IP™ Adapter (slave) EtherNet/IP™ Scanner EtherCAT® Master OPC UA Server/Client OPC UA Pub/Sub (can be installed later) MQTT RS-232 serial interface RS-485 interface Telecontrol protocols, <b>requires an additional license</b>
ETHERNET protocols	DHCP DNS NTP FTP FTPS SNMP HTTP HTTPS SSH
Telecontrol protocols	IEC 60870 (additional license as slave or master) IEC 61850 (additional license as Client or Server) DNP3 (additional license as Slave or Master)
Visualization	Web-Visu 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) Ladder Diagram (LD) Function Block Diagram (FBD) Continuous Function Chart (CFC) Structured Text (ST) Sequential Function Chart (SFC)

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



Programming environment	CODESYS V3.5, from firmware release 23 <i>e!COCKPIT</i> (based on CODESYS V3), up to firmware release 22
Configuration options	CODESYS V3 <i>e!COCKPIT</i> WAGO-I/O-CHECK Web-Based Management <i>e!RUNTIME</i> library 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	32 MB
Data memory	128 MB
Non-volatile software memory	128. Kbytes
Type of memory card	SD and SDHC up to 32 GB (all guaranteed properties only valid with WAGO 758-879/000-001 Memory Card)
Memory card slot	Push-push mechanism; Cover lid (sealable)
Number of modules per node (max.)	250
Number of modules without a bus extension (max.)	64
Input and output process image (internal) max.	1000 words/1000 words
Input and output process image (Modbus®) max.	CODESYS V3: 32000 words/32000 words
Device-specific	BACnet/IP protocol: ISO 16484-5; BACnet device profiles: B-BC (BACnet Building Controller); BACnet revision: 14
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)	24 VDC (-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)	N/A N/A
Supply voltage (field)	24 VDC (-25 ... +30 %); via power jumper contacts
Current carrying capacity (power jumper contacts)	10 A
Number of outgoing power jumper contacts	3
Isolation	500 V system/field

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## 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 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 inches
Connection technology: device configuration	1 x Male connector; 4-pole

## Physical data

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

## Mechanical Data

Weight	216.1 g
Color	light gray
Housing material	Polycarbonate; polyamide 6.6

## Environmental requirements

Ambient temperature (operation)	0 ... +55 °C
Ambient temperature (storage)	-25 ... +85 °C
Protection type	IP20
Pollution degree	2 per IEC 61131-2
Operating altitude	without temperature derating: 0 ... 2000 m; with temperature derating: 2000 ... 5000 m (0.5 K/100 m); 5000 m (max.)
Relative humidity (without condensation)	95 %
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

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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	2.551 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

ETIM 8.0	EC000236
ETIM 7.0	EC000236
PU (SPU)	1 pcs
Packaging type	box
Country of origin	DE
GTIN	4055143878326
Customs tariff number	85371091990

### Environmental Product Compliance

CAS-No.	1303-86-2 1314-23-4 1317-36-8 693-98-1 7439-92-1 79-94-7
REACH Candidate List Substance	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol 2-methylimidazole Diboron trioxide Lead Lead monoxide Perfluorobutane sulfonic acid (PFBS) and its salts Zirconium Oxide
RoHS Compliance Status	Compliant, With Exemption
RoHS Exemption	6(c) 7(a) 7(c)-I 7(c)-II
SCIP notification number (Austria)	20e734fa-ab82-4e58-b015-5596c9c39d2e
SCIP notification number (Belgium)	27367c67-2238-487d-9cf1-7dc1e4bcbbff
SCIP notification number (Bulgaria)	172b9283-d6bd-427b-82ec-1e6a27a57a4d
SCIP notification number (Czech Republic)	d72436ba-246e-416a-bcca-baa4323ddfed

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SCIP notification number (Denmark)	60a9a809-8357-4ccd-8da3-483b36c7aac0
SCIP notification number (Finland)	686e4d1f-9c99-499d-a411-494b74236a05
SCIP notification number (France)	1b04aa87-6907-4fa6-8dfe-ba87a5edf7fd
SCIP notification number (Germany)	b37b94c0-2e38-4563-9c77-57eb379c5d91
SCIP notification number (Hungary)	dc7c278a-7fd8-4c3f-9b17-72fcc55d63f5
SCIP notification number (Italy)	586efd71-00f0-43dc-b33d-93bcb2a8b7fe
SCIP notification number (Netherlands)	3c8826e1-fdf6-45b1-bbab-9ccdb0f60be3
SCIP notification number (Poland)	6595f333-9c7e-4547-a6be-358e9e9f532d
SCIP notification number (Romania)	50df8d29-aa9b-4b2a-a80f-7ced9dc249bc
SCIP notification number (Sweden)	013272af-5232-4aaa-bd1b-97177c15855c

## Approvals / Certificates

### General approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCC CNEX	CNCA-C23-01	2020312310000213 (Ex ec IIC T4 Gc)
	EAC Brjansker Zertifizierungsstelle	TP TC 020/2011	EAC RU C-DE.AM02. B.00087/19
	EAC Brjansker Zertifizierungsstelle	TP TC 012/2011	EAC RU C-DE.AZ58. B.2173-21 e (2Ex e IIC T4 Gc X)
	KC National Radio Research Agency	Article 58-2, Clause 3	MSIP-REM-W43- PFC750
	UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	-	E175199

### Declarations of conformity and manufacturer's declarations



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

### Approvals for marine applications

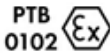





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Logo	Approval	Additional Approval Text	Certificate name
	<b>BSH</b> Bundesamt fuer Seeschifffahrt und Hydrographie	-	1104
	<b>DNV</b> DNV GL SE	DNV-CG-0339,Aug.2021	TAA0000194

## Approvals for hazardous areas

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

## Protocol and fieldbus specific certificates

Logo	Approval	Additional Approval Text	Certificate name
	<b>BACnet</b> WSP Cert	-	AMEV Testat- 2017

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

















## Optional accessories













### Carrier rail

#### Mounting accessories

	<b>Item no.: 210-197</b> Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored	<a href="http://www.wago.com/210-197">www.wago.com/210-197</a>
	<b>Item no.: 210-198</b> Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored	<a href="http://www.wago.com/210-198">www.wago.com/210-198</a>
	<b>Item no.: 210-504</b> Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715; silver-colored	<a href="http://www.wago.com/210-504">www.wago.com/210-504</a>
	<b>Item no.: 210-505</b> Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715; silver-colored	<a href="http://www.wago.com/210-505">www.wago.com/210-505</a>
	<b>Item no.: 210-506</b> Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715; silver-colored	<a href="http://www.wago.com/210-506">www.wago.com/210-506</a>
	<b>Item no.: 210-508</b> Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715; silver-colored	<a href="http://www.wago.com/210-508">www.wago.com/210-508</a>
	<b>Item no.: 210-113</b> Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored	<a href="http://www.wago.com/210-113">www.wago.com/210-113</a>
	<b>Item no.: 210-118</b> Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored	<a href="http://www.wago.com/210-118">www.wago.com/210-118</a>
	<b>Item no.: 210-112</b> Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 25 mm; silver-colored	<a href="http://www.wago.com/210-112">www.wago.com/210-112</a>
	<b>Item no.: 210-114</b> Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored	<a href="http://www.wago.com/210-114">www.wago.com/210-114</a>
	<b>Item no.: 210-115</b> Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 18 mm; silver-colored	<a href="http://www.wago.com/210-115">www.wago.com/210-115</a>
	<b>Item no.: 210-196</b> Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored	<a href="http://www.wago.com/210-196">www.wago.com/210-196</a>

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

## Marking accessories

Marker carrier		
	<b>Item no.: 750-103</b> Group marker carrier	<a href="http://www.wago.com/750-103">www.wago.com/750-103</a>
Marker		
	<b>Item no.: 2009-145/000-006</b> 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</b> 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> 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.: 2009-145/000-007</b> 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.: 2009-145/000-005</b> 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.: 2009-145/000-012</b> 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> 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> Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet	<a href="http://www.wago.com/2009-145/000-024">www.wago.com/2009-145/000-024</a>
	<b>Item no.: 248-501/000-006</b> 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> Mini-WSB marking card; as card; not stretchable; plain; snap-on type; gray	<a href="http://www.wago.com/248-501/000-007">www.wago.com/248-501/000-007</a>
	<b>Item no.: 248-501/000-002</b> 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>

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



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

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

[www.wago.com/248-501](http://www.wago.com/248-501)



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.: 248-501/000-005

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

[www.wago.com/248-501/000-005](http://www.wago.com/248-501/000-005)



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.: 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)

#### Group marker carrier



Item no.: 750-107

Group marker carrier

[www.wago.com/750-107](http://www.wago.com/750-107)

#### Memory card

##### 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)

#### Communication

##### Communication cable



Item no.: 750-923

Configuration cable; USB connector; Length: 2.5 m

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



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)

#### Shield termination

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

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## Shield clamping saddles

	<b>Item no.: 790-116</b> Shield clamping saddle; 19 mm wide; diameter of compatible conductor; 7 ... 16 mm	<a href="http://www.wago.com/790-116">www.wago.com/790-116</a>
	<b>Item no.: 790-124</b> Shield clamping saddle; 27 mm wide; diameter of compatible conductor; 6 ... 24 mm	<a href="http://www.wago.com/790-124">www.wago.com/790-124</a>
	<b>Item no.: 790-108</b> Shield clamping saddle; 11 mm wide; diameter of compatible conductor; 3 ... 8 mm	<a href="http://www.wago.com/790-108">www.wago.com/790-108</a>
	<b>Item no.: 790-140</b> Shield clamping saddle; diameter of compatible conductor	<a href="http://www.wago.com/790-140">www.wago.com/790-140</a>
	<b>Item no.: 790-216</b> Shield clamping saddle; 21.8 mm wide; 6 ... 16 mm	<a href="http://www.wago.com/790-216">www.wago.com/790-216</a>
	<b>Item no.: 790-220</b> Shield clamping saddle; 30 mm wide; 6 ... 20 mm	<a href="http://www.wago.com/790-220">www.wago.com/790-220</a>
	<b>Item no.: 790-208</b> Shield clamping saddle; 12.4 mm wide; 3 ... 8 mm	<a href="http://www.wago.com/790-208">www.wago.com/790-208</a>

## Software

## Basic version

	<b>Item no.: 2759-101/1110-2005</b> e!COCKPIT; Multi-User License; 05 pcs	<a href="http://www.wago.com/2759-101/1110-2005">www.wago.com/2759-101/1110-2005</a>
	<b>Item no.: 2759-101/1110-2002</b> e!COCKPIT; Workstation License	<a href="http://www.wago.com/2759-101/1110-2002">www.wago.com/2759-101/1110-2002</a>
	<b>Item no.: 2759-101/1110-2015</b> e!COCKPIT; Multi-User License; 15 pcs	<a href="http://www.wago.com/2759-101/1110-2015">www.wago.com/2759-101/1110-2015</a>
	<b>Item no.: 2759-101/1110-2020</b> e!COCKPIT; Multi-User License; 20 pcs	<a href="http://www.wago.com/2759-101/1110-2020">www.wago.com/2759-101/1110-2020</a>
	<b>Item no.: 2759-101/1110-2010</b> e!COCKPIT; Multi-User License; 10 pcs	<a href="http://www.wago.com/2759-101/1110-2010">www.wago.com/2759-101/1110-2010</a>
	<b>Item no.: 2759-101/1110-3000</b> e!COCKPIT; Site License	<a href="http://www.wago.com/2759-101/1110-3000">www.wago.com/2759-101/1110-3000</a>
	<b>Item no.: 2759-101/1110-4000</b> e!COCKPIT; Buy-out License	<a href="http://www.wago.com/2759-101/1110-4000">www.wago.com/2759-101/1110-4000</a>














## Cables and pluggable connectors

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Connector plug

	<b>Item no.: 750-975</b> ETHERNET RJ-45 connector, IP20; ETHERNET 10/100 Mbit/s; for field assembly	<a href="http://www.wago.com/750-975">www.wago.com/750-975</a>
	<b>Item no.: 750-978/000-012</b> Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22; Strain relief	<a href="http://www.wago.com/750-978/000-012">www.wago.com/750-978/000-012</a>
	<b>Item no.: 750-979/000-012</b> Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 22; Strain relief	<a href="http://www.wago.com/750-979/000-012">www.wago.com/750-979/000-012</a>
	<b>Item no.: 750-978/000-021</b> Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24; Strain relief	<a href="http://www.wago.com/750-978/000-021">www.wago.com/750-978/000-021</a>
	<b>Item no.: 750-979/000-022</b> Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 24; Strain relief	<a href="http://www.wago.com/750-979/000-022">www.wago.com/750-979/000-022</a>
	<b>Item no.: 750-978/000-022</b> Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24; Strain relief	<a href="http://www.wago.com/750-978/000-022">www.wago.com/750-978/000-022</a>
	<b>Item no.: 750-979/000-011</b> Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568A; AWG 22; Strain relief	<a href="http://www.wago.com/750-979/000-011">www.wago.com/750-979/000-011</a>
	<b>Item no.: 750-979/000-021</b> Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568A; AWG 24; Strain relief	<a href="http://www.wago.com/750-979/000-021">www.wago.com/750-979/000-021</a>
	<b>Item no.: 750-977/000-011</b> 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.: 750-978/000-011</b> Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22; Strain relief	<a href="http://www.wago.com/750-978/000-011">www.wago.com/750-978/000-011</a>
	<b>Item no.: 750-977/000-022</b> Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24	<a href="http://www.wago.com/750-977/000-022">www.wago.com/750-977/000-022</a>
	<b>Item no.: 750-977/000-012</b> 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> 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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## System housing

System enclosure		
	<b>Item no.: 850-814/002-000</b> IP65 enclosure; Sheet steel (RAL 7035); WxHxD (200x120x200 mm); without flange plate	<a href="http://www.wago.com/850-814/002-000">www.wago.com/850-814/002-000</a>
	<b>Item no.: 850-815/002-000</b> IP65 enclosure; Sheet steel (RAL 7035); WxHxD (300x120x200 mm); without flange plate	<a href="http://www.wago.com/850-815/002-000">www.wago.com/850-815/002-000</a>
	<b>Item no.: 850-816/002-000</b> IP65 enclosure; Sheet steel (RAL 7035); WxHxD (400x120x200 mm); without flange plate	<a href="http://www.wago.com/850-816/002-000">www.wago.com/850-816/002-000</a>
	<b>Item no.: 850-817/002-000</b> IP65 enclosure; Sheet steel (RAL 7035); WxHxD (600x120x200 mm); without flange plate	<a href="http://www.wago.com/850-817/002-000">www.wago.com/850-817/002-000</a>
	<b>Item no.: 850-825</b> 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> 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.: 850-827</b> 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> 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.: 850-826/002-000</b> 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.: 850-828/002-000</b> 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.: 850-828</b> 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.: 850-834</b> 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> 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>	

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

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

## Downloads

### Documentation

#### Manual

System Manual WAGO I/O System 750/753 Decentralized Automation Technology	V 3.3.0 2023 May 4	pdf 8.8 MB	Download
Migration Guide Migration from e!COCKPIT projects to CODESYS V3.5	V 1.2.0 2023 Apr 13	pdf 4.5 MB	Download
Product Manual Documentation WAGO Solution Builder WAGO Solution Builder is a software solution that enables holistic and efficient building automation project engineering and can be used throughout the entire building life cycle. With WAGO Solution Builder, you can organize all of your own building automation projects on a web interface and, thanks to integrated device management, ensure that your project-specific WAGO controllers are always updated. br/br/Once downloaded, the software can be used for free during the 2021 /2022 launch. After that, you can activate WAGO Solution Builder by purchasing a license key. br/br/Please note that an e!COCKPIT license is required to create applications.	1.2.0 2022 Oct 26	pdf 10.5 MB	Download
Product Manual OPC UA Mapping Editor	V 1.1.0 2022 Mar 11	pdf 3.4 MB	Download
Product Manual PFC200; G2; 2ETH RS BACnet/IP Controller PFC200; 2. Generation; 2 x ETHERNET, RS-232/-485; BACnet/IP	V 1.1.0 2019 Dec 9	pdf 3.7 MB	Download
OPC_UA Mapping Editor Online Help HTML		URL	Download
System Manual Series 750/753 Online HTML		URL	Download
Migration Guide from e!COCKPIT projects to CODESYS V3.5 Online Help (HTML)		URL	Download
<b>Bid Text</b>			
750-8212/000-100 X81 - Datei	2019 May 21	xml 10.4 kB	Download

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750-8212/000-100 docx - Datei	2019 May 21	docx 23.9 kB	Download
ausschreiben.de 750-8212/000-100		URL	Download
<b>Instruction Leaflet</b>			
CCC Ex (Additional information) WAGO-I/O-SYSTEM *750-****/*	2023 Apr 26	pdf 163.6 kB	Download
<b>Tutorial</b>			
Set IP address with Ethernet Settings 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 2017 Dec 18	mp4 88.3 MB	Download
Establish connection to a controller using SSH 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 2017 Aug 5	mp4 29.0 MB	Download
<b>Compatibility Information</b>			
Protocol Implementation Conformance Statement for e!RUNTIME BACnet/IP 300 (M)	V 2.1.0 2022 Jun 13	pdf 3.1 MB	Download
BACnet Protocol Implementation Conformance Statement (PICS) for e!RUNTIME BACnet/IP 600 (M)	V 2.2.0 2022 May 25	pdf 3.1 MB	Download
BACnet Protocol Implementation Conformance Statement (PICS)	V 1.0.0 2019 Jul 25	pdf 1.7 MB	Download
<b>System Description</b>			
Controller PFC100/200, General Product Information		pdf 592.5 kB	Download
Overview on WAGO-I/O-SYSTEM 750 approvals		pdf 789.0 kB	Download
<b>Additional Information</b>			
Disposal and Recycling	V 1.1.0	pdf	Download

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Electrical and electronic equipment, Batteries, Packaging	2022 Aug 18	2.2 MB	
WAGO OPC UA Server	V 1.1.0 2021 Jan 28	pdf 1.2 MB	Download

## Application Notes

### Application Note e!COCKPIT

Application Note Data Plotter	2023-06-01 2023 Jun 1	zip 6.7 MB	Download
<p>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).</p>			

e!COCKPIT Application Note WAGO Visualization Datalogger (a2022005)	20230505 2023 May 5	zip 4.1 MB	Download
<p>WAGO Visualization Datalogger is a Web application that can be used as a visualization tool for the recorded data of the datalogger library (WAGOAppDatalogger). WAGO Visualization Datalogger does not replace the datalogger but is rather a supplementary function. It is an HTML/Javascript application available via the Webserver on the controller. The user launches the Web application in a browser.</p>			

e!COCKPIT Anwendungshinweis HVAC BACnet Macros (a2021010)	1.3.0 2023 Feb 27	zip 69.2 MB	Download
<p>Basierend auf der Bibliothek WagoAppBuildingHVAC_BACnet stellt WAGO in dem Bereich Heizung, Lüftung und Klimatisierung verschieden HLK-Anlagenmakros mit BACnet-Anbindung zur Verfügung.</p>			

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

e!COCKPIT Application Note OPC UA Client (a2022001)	1.0.0 2022 Apr 5	zip 1.4 MB	Download
<p>In this application note, an example project for using the "WagoSysOpcuaClient" library is provided. The WagoSysOpcuaClient library provides the customer with function blocks to connect to one or more OPC UA servers, to read and write data points. The function blocks were developed in accordance with PLCopen-OPC-UA-Client for IEC 61131-3 (Document Version 1.1).</p>			

e!COCKPIT Application Note BACnet PFC	1.0.0 2021 Dec 6	pdf 3.4 MB	Download
<p>This application note describes how BACnet/IP data communication can be established within the WAGO-I/O-SYSTEM. This document explains how to create, read and write BACnet objects and how to link I/O modules to the BACnet fieldbus.</p>			

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



e!COCKPIT Anwendungshinweis WAGO Solution Builder (a2021012) Dieser Anwendungshinweis beschreibt den grundlegenden Umgang mit dem WAGO Solution Builder und der damit einhergehenden Funktionsweise der Application Templates.	2021-12-06 2021 Dec 6	zip 2.7 MB	Download
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**Application Note CoDeSys 2.3**

Application Note Data Plotter 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).	2023-06-01 2023 Jun 1	zip 6.7 MB	Download
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**Engineering-Software**

**WAGO BACnet Configurator**

WAGO BACnet Configurator The WAGO BACnet Configurator is a stand-alone, commissioning, configuration and management software. The configurator fully supports the BACnet-specific functions of WAGO's 750-829, 750-830, 750-831 BACnet Controllers, as well as the BACnet/IP PFC200 Controller (750-8212/000-100), which is programmed via e!COCKPIT.	2.3.0.0 2023 Feb 23	zip 79.6 MB	Download
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The configurator creates and configures WAGO BACnet Controllers and sets up data exchange between the IEC application and BACnet objects. Import and export functions allow further processing of the configuration data.

**WAGO Solution Builder**

WAGO Solution Builder WAGO Solution Builder is a software solution that enables holistic and efficient building automation project engineering and can be used throughout the entire building life cycle. With WAGO Solution Builder, you can organize all of your own building automation projects on a web interface and, thanks to integrated device management, ensure that your project-specific WAGO controllers are always updated.		URL	Download
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Once downloaded, the software can be used for free during the launch phase until October 2023. After that, you can activate WAGO Solution Builder by purchasing a license key.

**Desktop Application**

WAGOUpload WAGOUpload is a stand-alone PC software for transferring, backing up and restoring PLC applications on WAGO 750 Series controllers.		URL	Download
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**CODESYS V3 with WAGO DSP**

CODESYS Development System V3 including WAGO Device Support Package Have you not yet installed CODESYS Development System V3? Would you like to program WAGO controllers? Then you've come to the right place!		URL	Download
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With CODESYS Development System V3, you program according to the IEC 61131-3 standard. The software enables graphical and textual programming. Create visualizations with the integrated visualization editor.

You benefit from several WAGO libraries that support your application.

You can find it in our WAGO Download Center:

- CODESYS V3.5.x, 64-bit
- WAGO-Plugins
- WAGO libraries
- Device firmware
- Device description for WAGO controllers
- ...as well as other WAGO tools and add-ons

### WAGO DSP for CODESYS V3

WAGO Device Support Package for CODESYS Development System V3

URL

Download

Have you already installed CODESYS Development System V3 (min. V3.5.17.3) and only need WAGO libraries and device descriptions for the WAGO controllers? Then you've come to the right place!

Use your CODESYS Development System V3 and expand it with the device descriptions of the WAGO controllers and several WAGO libraries.

You can find it in our WAGO Download Center:

- WAGO-Plugins
- WAGO libraries
- Device firmware
- Device descriptions for WAGO controllers
- ...sowie weitere WAGO-Tools und Add-ons

### Configuration and Commissioning Software

(759-316) WAGO Ethernet Settings / Serie 750

06.18.01.01  
2023 Feb 28

zip  
27.3 MB

Download

### Runtime Software

#### Firmware

PFC200, Firmware Update für CoDeSys V3.5  
WAGO\_FW0750-821x\_V040110\_FW23

V 23  
2023 Feb 24

zip  
172.0 MB

Download

Image Update (SD Karte) PFC100/200

WAGO\_FW0750-8xxx\_V031010\_IX22\_SP1\_I

V 22 SP1  
2022 Dec 12

zip  
210.8 MB

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WUP Update (WAGOuploadTool) PFC100/200

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WAGO\_FW0750-8xxx\_V031010\_IX22\_SP1\_W

V 22 SP1  
2022 Dec 12

zip  
208.5 MB

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## CAD/CAE-Data

### CAE data

EPLAN Data Portal 750-8212/000-100

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### CAD data

2D/3D Models 750-8212/000-100

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## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 750-8212/000-100

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

## Installation Notes

### 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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