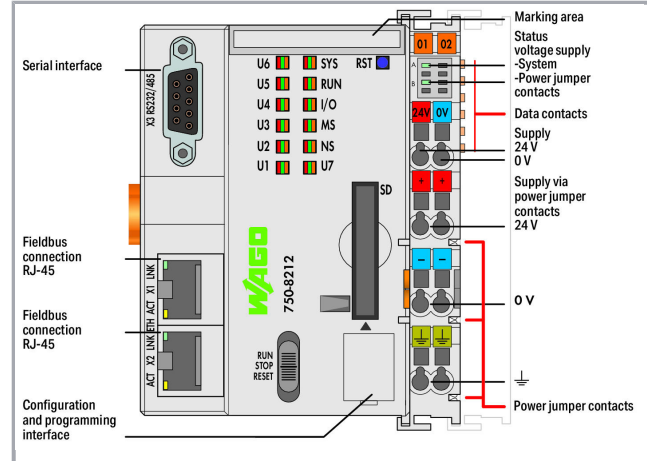
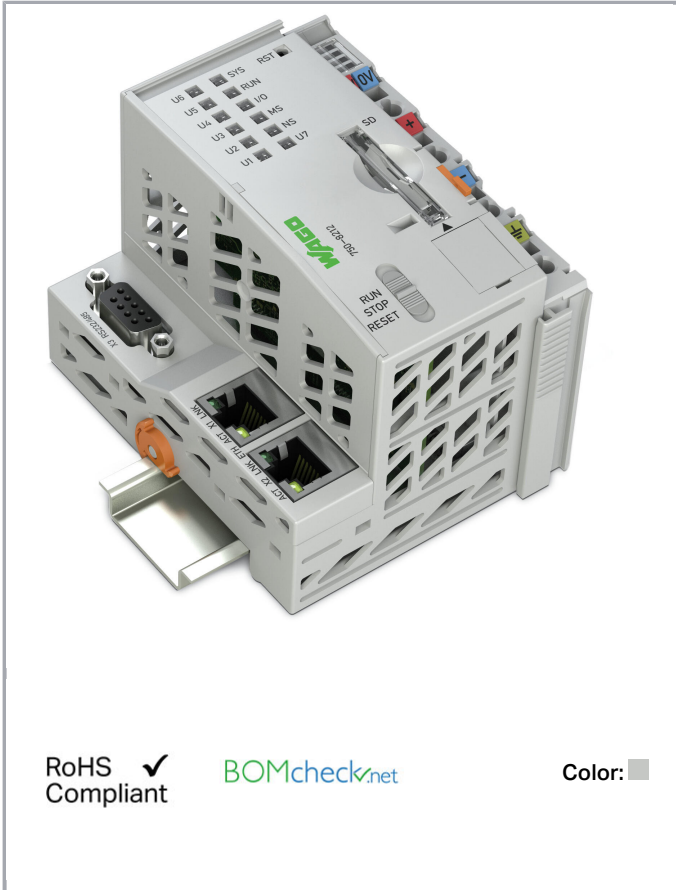


Data sheet | Item number: 750-8212

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

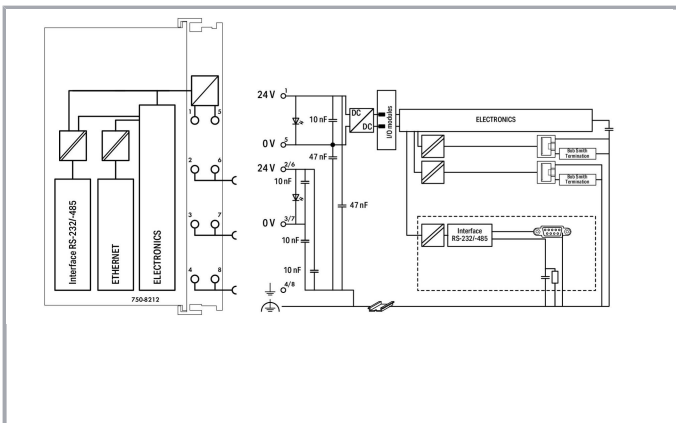
[www.wago.com/750-8212](http://www.wago.com/750-8212)



RoHS Compliant



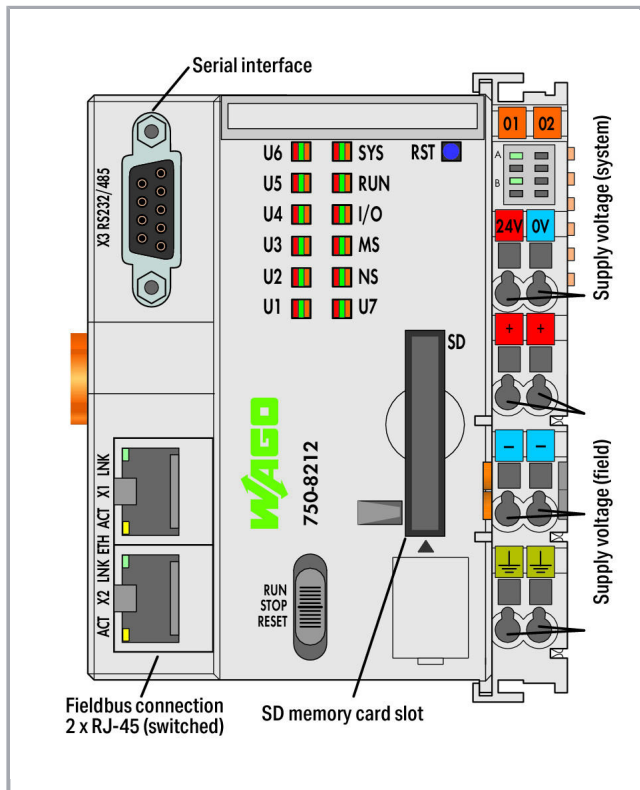
Color: ■



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

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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

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



## Data

### Technical Data

Communication	Modbus (TCP, UDP) Ethernet Modbus RTU RS-232 serial interface RS-485 Serial Interface EtherNet/IP adapter (slave), Library for e!RUNTIME EtherCAT master, requires an additional license MQTT
Ethernet protocol	DHCP DNS NTP FTP FTPS SNMP HTTP HTTPS 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) Ladder Diagram (LD) Function Block Diagram (FBD), Continuous Function Chart (CFC) Structured Text (ST) Sequential Function Chart (SFC)
Programming environment	e!COCKPIT (based on CODESYS V3) WAGO-I/O-PRO V2.3 (based on CODESYS V2.3)
Configuration options	e!COCKPIT WAGO-I/O-CHECK Web-based management e!RUNTIME 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)	4000 MB
Hardware non-volatile memory	128 Kbytes
Program memory	CODESYS V2: 16 MB; e!RUNTIME: 60 MB (Program and data memory)

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	(dynamically distributed))
Data memory	CODESYS V2: 64 MB; e!RUNTIME: 60 MB Program and data memory (dynamically distributed)
Software non-volatile 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 I/O modules without bus extension max.	64
Input and output process image (internal) max.	1000 Worte/1000 Worte
Input and output process image (MODBUS) max.	1000 Worte/1000 Worte
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
System supply voltage	DC 24 V(-25 ... +30 %); via pluggable connector (CAGE CLAMP® connection)
Input current typ. at rated load (24 V)	550 mA
Total current for system supply	1,700 mA
Field supply voltage	DC 24 V (-25 ... +30 %); via power jumper contacts
Current carrying capacity of the power jumper contacts	10 A
Number of outgoing power jumper contacts	3
Isolation	500 V system/field

## Connection data

Connection technology: communication/fieldbus	Modbus TCP/UDP: 2 x RJ-45; Modbus RTU: 1 x D-sub 9 socket; RS-232 serial interface: 1 x D-sub 9 socket; RS-485 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

## Geometrical Data

Width	78,6 mm / 3.094 inch
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Height	71,9 mm / 2.831 inch
Height from upper-edge of DIN-35 rail	64,7 mm / 2.547 inch
Depth	100 mm / 3.937 inch

### Mechanical data

Weight	213.7 g
Color	light gray
Housing material	Polycarbonate, polyamide 6.6
Conformity marking	CE

### Environmental Requirements

Surrounding air (operating) temperature	0 ... 55 °C
Surrounding air (storage) temperature	-40 ... 85 °C
Protection class	IP20
Degree of pollution (5)	2 per IEC 61131-2
Operating altitude	without temperature derating: 0 ... 2000 m; with temperature derating: 2000 ... 5000 m (0.5 K/100 m); 5000 m (max.)
Relative air humidity (no condensation)	95 %
Mounting position	any
Type of mounting	DIN-35 rail
Vibration resistance	4g per IEC 60068-2-6
Shock resistance	15g per IEC 60068-2-27
EMC immunity to interference	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
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 No.	85371091990

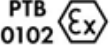


### Approvals / Certificates

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


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## Ex-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>ATEX</b> TUEV Nord Cert GmbH	EN 60079	TUEV_14_ATEX_148929_X
	<b>IECEX</b> TUEV Nord Cert GmbH	IEC 60079-0	IECEX_TUN_14.0035_X
	<b>UL</b> Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)	UL 121201	E198726 Sec.1

## Country specific Approvals

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

## Ship Approvals


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

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## UL-Approvals

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














## Counterpart

## Compatible products

## wiring and connectors

	<b>Item no.: 750-975</b> 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> 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> 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>
	<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.: 750-978/000-011</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.: 750-978/000-012</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>

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

	<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.: 750-978/000-022</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.: 750-979/000-012</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.: 750-979/000-021</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.: 750-979/000-022</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>system box</b>		
	<b>Item no.: 850-804</b> IP65 enclosure; Stainless steel; WxHxD (400x123x200 mm); 4 x M20, 16 x M16, 28 x M12 cable grip	<a href="http://www.wago.com/850-804">www.wago.com/850-804</a>
	<b>Item no.: 850-804/000-001</b> IP65 enclosure; Stainless steel; WxHxD (400x123x200 mm); 2 x M20, 13 x M16, 32 x M12 cable grip	<a href="http://www.wago.com/850-804/000-001">www.wago.com/850-804/000-001</a>
	<b>Item no.: 850-805</b> IP65 enclosure; Stainless steel; WxHxD (600x123x200 mm); 4 x M20, 19 x M16, 67 x M12 cable grip	<a href="http://www.wago.com/850-805">www.wago.com/850-805</a>
	<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>

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



**Item no.: 850-826**

IP65 enclosure; Aluminium (RAL 7032); WxHxD (240x100x160 mm); 4 x M20, 4 x M16, 14 x M12 cable grip [www.wago.com/850-826](http://www.wago.com/850-826)

**Item no.: 850-826/002-000**

IP65 enclosure; Aluminium (RAL 7035); WxHxD (240x100x160 mm); 4 x M20, 4 x M16, 14 x M12 cable grip [www.wago.com/850-826/002-000](http://www.wago.com/850-826/002-000)

**Item no.: 850-827**

IP65 enclosure; Aluminium (RAL 7032); WxHxD (320x100x160 mm); 4 x M20, 8 x M16, 17 x M12 cable grip [www.wago.com/850-827](http://www.wago.com/850-827)

**Item no.: 850-827/002-000**

IP65 enclosure; Aluminium (RAL 7035); WxHxD (320x100x160 mm); 4 x M20, 8 x M16, 17 x M12 cable grip [www.wago.com/850-827/002-000](http://www.wago.com/850-827/002-000)

**Item no.: 850-828**

IP65 enclosure; Aluminium (RAL 7032); WxHxD (480x100x160 mm); 4 x M20, 10 x M16, 35 x M12 cable grip [www.wago.com/850-828](http://www.wago.com/850-828)

**Item no.: 850-828/002-000**

IP65 enclosure; Aluminium (RAL 7035); WxHxD (480x100x160 mm); 4 x M20, 10 x M16, 35 x M12 cable grip [www.wago.com/850-828/002-000](http://www.wago.com/850-828/002-000)

**Item no.: 850-834**

IP65 enclosure; Polyester (RAL 7032); WxHxD (164x100x164 mm); 9 x M12, 4 x M20 [www.wago.com/850-834](http://www.wago.com/850-834)

**Item no.: 850-835**

IP65 enclosure; Polyester (RAL 7032); WxHxD (244x100x164 mm); 4 x M20, 4 x M16, 14 x M12 cable grip [www.wago.com/850-835](http://www.wago.com/850-835)

**Item no.: 850-836**

IP65 enclosure; Polyester (RAL 7032); WxHxD (324x100x164 mm); 4 x M20, 8 x M16, 17 x M12 cable grip [www.wago.com/850-836](http://www.wago.com/850-836)

**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)

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

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

#### 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)



**Item no.: 210-113**  
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715

[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

[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)



**Item no.: 210-118**  
Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715

[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

[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

[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)



**Item no.: 210-506**  
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715

[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

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

#### 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)

#### Marking accessories

**Item no.: 2009-145**

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

	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; white	<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> 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> 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> 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/2009-145/000-007">www.wago.com/2009-145/000-007</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</b> 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> 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> 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> 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.: 248-501/000-012</b> Mini-WSB marking card; as card; not stretchable; plain; snap-on type; orange	<a href="http://www.wago.com/248-501/000-012">www.wago.com/248-501/000-012</a>

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**Item no.: 248-501/000-017**  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; light green

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**Item no.: 248-501/000-023**  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; green

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**Item no.: 248-501/000-024**  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; violet

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**software**



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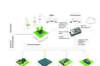
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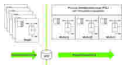
**Item no.: 2759-203/211-1000**  
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Application Energy Data Management; Single License; Online activation

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Library MTP; Single License; Online activation

[www.wago.com/2759-208/211-1000](http://www.wago.com/2759-208/211-1000)



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Visualization Lighting Management; Single License; M; Online activation

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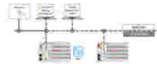
**Item no.: 2759-2103/271-1000**  
Visualization Lighting Management; Single License; L; Online activation

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**Item no.: 2759-2110/261-1000**  
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**Item no.: 2759-241/261-1000**  
Application Weather Station; Single License; Online activation

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**Item no.: 2759-247/211-1000**  
e!RUNTIME; Sparkplug; Single License; Online activation

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**Item no.: 2759-263/211-1000**  
e!RUNTIME; EtherCAT Master; 300; Single License; Online activation

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**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)



**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

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**memory card**

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

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



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

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

## Downloads

### Documentation

#### Manual

PFC200 G2 2ETH RS Controller PFC200; 2nd Generation; 2 x ETHERNET, RS-232/-485	V 1.3.0 15 .. 2019	pdf 5.0 MB	Download
WAGO MODBUS Master Configurator for configuration of MODBUS networks in WAGO-I/O-PRO (CODESYS)	V 1.1.0	pdf 1.8 MB	Download
Cyber Security for Controller PFC100 / PFC200	V 1.2.0	pdf 8.3 MB	Download
e!RUNTIME EtherCAT® Master	V 1.1.1 17 .. 2019	pdf 879.5 kB	Download

#### Tutorial

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 18 .. 2017	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 5 .. 2017	mp4 29.0 MB	Download

#### Additional Information

Disposal; Electrical and electronic equipment, Packaging	V 1.0.0	pdf 265.8 kB	Download
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## System Description

Overview on WAGO-I/O-SYSTEM 750 approvals		pdf 780.2 kB	Download
Controller PFC100/200, General Product Information		pdf 591.2 kB	Download
Design Notes Basic conditions and recommendations for higher operational safety	V 2.0.0	pdf 1.5 MB	Download

## Application Notes

### Application Note CoDeSys 2.3

WagoConfigToolLIB The library WagoConfigToolLIB.lib library provides function blocks for accessing the device configuration (e.g., network settings, data and time, ongoing services).	1.0.0	pdf 349.1 kB	Download
ModuleAccess_01.lib The ModuleAccess_01 library provides both module configuration and access to its process data within a CoDeSys project without the use of WAGO I/O Check.	1.8.7 27 .. 2020	zip 2.2 MB	Download
Connection of Thermokon Multi-function room control units WRF 08 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 10 .. 2019	zip 876.4 kB	Download
Application Note Connecting with an iPod Touch 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 28 .. 2011	zip 439.1 kB	Download
Application Note Library WagoDatalogger_02 This application note describes the use of the WagoDatalogger_02.lib library. Up to 80 analog or digital signals can be recorded.	10.03.2016 4 .. 2016	zip 1.3 MB	Download
Connection of Thermokon Multi-function room control units WRF 06 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 8 .. 2016	zip 845.9 kB	Download
HLK-Anlagenmakros für TRIC	10 .. 2015	zip 76.8 MB	Download

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In dieser Zip-Datei finden Sie Vorlagen und Makros für die Planungssoftware TRIC. TRIC ist ein Werkzeug für Planer und Errichter von HLK-Anlagen, das den Richtlinien der VOB, VDI und DIN EN ISO entspricht.

<p>Application Note for the 750-494 3-Phase Power Measurement Module</p> <p>The application note for the 3-Phase Power Measurement Module 750-494 shows how the measured values of the power measurement module can be read. It is also shown how the power module can be configured using the WAGO-I/O-PRO- V2.3 visualization tool.</p>	<p>24.01.2014 11 .. 2014</p>	<p>zip 1.7 MB</p>	<p>Download</p>
<p>Application Note: DMX_02</p> <p>This application note describes how a DMX master for DMX device control can be performed via 750-652 serial interface.</p>	<p>26.04.2017 26 .. 2017</p>	<p>zip 751.0 kB</p>	<p>Download</p>
<p>Application Note for the 750-495 3-Phase Power Measurement Module</p> <p>The application note for the 3-Phase Power Measurement Module 750-495 shows how the measured values of the power measurement module can be read. It is also shown how the power module can be configured using the WAGO-I/O-PRO- V2.3 visualization tool.</p>	<p>24.01.2014 24 .. 2014</p>	<p>zip 1.8 MB</p>	<p>Download</p>
<p>HVAC System Macros</p> <p>WAGO provides system macros for HVAC applications that are based on Building_HVAC_03.lib.</p>	<p>10.03.2017 15 .. 2019</p>	<p>zip 13.6 MB</p>	<p>Download</p>
<p>Application note Cloud Connectivity</p> <p>This application note explains how the WAGO controllers PFC100 and PFC200 can communicate with cloud services like Microsoft Azure (WAGO Cloud), Amazon AWS and IBM Bluemix. Data could be send to the cloud and commands could receive from the cloud. The libraries WagoLibCloud for WAGO-I/O-PRO V2.3 and WagoAppCloud for e!COCKPIT are used.</p>	<p>2019-09-17 17 .. 2019</p>	<p>zip 4.1 MB</p>	<p>Download</p>
<p>Application Note: EnOcean_06 Library</p> <p>This application note describes how communication between the WAGO-I/O-SYSTEM and different EnOcean wireless sensors can be implemented using the EnOcean_06.lib library.</p>	<p>30.11.2016 30 .. 2016</p>	<p>zip 842.0 kB</p>	<p>Download</p>
<p>Anbindung der HKW-Elektronik Wetterprognose-Station WS-K xx T ModBus</p> <p>Dieser Anwendungshinweis beschreibt, wie die Kommunikation zwischen dem WAGO-I/O-System und einer HKW-Elektronik Wettterprognose-Station Kompakt realisiert werden kann.</p>	<p>V 1.1 7 .. 2017</p>	<p>zip 781.1 kB</p>	<p>Download</p>
<p>Application Note Data Plotter</p> <p>The Data Plotter is a Web application that can be used as a visualization tool for the data logger. It allows the user to graphically display data captured by the data logger library (WAGO_Datalogger_02.lib for CODESYS V2.3 and WagoAppDatalogger for e!COCKPIT from V1.2.100.6023).</p>	<p>V 2019-07-04 5 .. 2019</p>	<p>zip 7.4 MB</p>	<p>Download</p>

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HART Tool Routing via ETHERNET with 750-820x/750-88x and CODESYS 2.3 (a116120)	1.0.0 22 .. 2019	pdf 3.9 MB	Download
<p>This application note describes how to set up asset management systems, which facilitate simple, efficient configuration of HART field devices.</p> <p>With the Cerabar PMC51 (Endress+Hauser) as an example, a connection is established from any HART sensor to a WAGO PROFIBUS Controller and a WAGO ETHERNET Fieldbus Coupler. The configuration is made with the asset management software WAGOframe, PACTware und FieldCare.</p>			
Application Note Scheduler_03.lib	20.05.2011 20 .. 2011	zip 1.8 MB	Download
<p>This application note describes different applications of the Scheduler_03.lib library.</p>			
Anwendungshinweis für die Steuerung eines Igus robotlink	12.11.2015 12 .. 2015	zip 1.3 MB	Download
<p>Der Anwendungshinweis beschreibt anhand einer Demoapplikation die Steuerung eines Igus robotlink® Roboterarms mit sechs Achsen. Als Steuerung wird ein Wago PFC200 (Art.-Nr. 750-8202) verwendet.</p>			
Connection of a Thermokon Thanos SR L MODBUS room control unit to the WAGO-I/O-SYSTEM	02.05.2013 13 .. 2013	zip 313.2 kB	Download
<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>			
Erreichen der Linuxkonsole des PFC200 (a100701)	V1.0.0 29 .. 2016	zip 521.3 kB	Download
<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>			
Application Note PowerMeasurement_03 Library	19.01.2011 19 .. 2012	zip 954.5 kB	Download
<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>			
Application Note Weather Station Elsner P03 Modbus	01.12.2011 28 .. 2011	zip 275.6 kB	Download
<p>This application note describes how communication can be set up between the WAGO I/O System and the ELSNER P03/3 weather station with a Modbus interface.</p>			
GRUNDFOS GENIbus interface, application note	20.03.2017 20 .. 2017	zip 286.6 kB	Download
<p>This application note describes how communication between the WAGO-I/O-SYSTEM and the Grundfos MAGNA series circulation pumps can be performed via GENIbus interface.</p>			
Connection of DMX devices to the WAGO-I/O-SYSTEM via the ArtNet-DMX STAGE-PROFI 1.1	11.01.2013 11 .. 2013	zip 1.5 MB	Download

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This application note describes connecting the ArtNet-DMX STAGE-PROFI 1.1 to the WAGO-I/O-SYSTEM. The ArtNet-DMX STAGE-PROFI 1.1 can be operated as a DMX master and a DMX slave.

<p>Application Note: MpBus_03 Library</p> <p>This Application Note explains how a WAGO fieldbus controller sets up communication to the MP-bus actuators via the MP-bus master module (750-643).</p>	<p>2020-01-29 29 .. 2020</p>	<p>zip 520.4 kB</p>	<p>Download</p>
<p>Application Note Library ModuleAccess_01</p> <p>These instructions describe the use of the ModuleAccess_01.lib library using 4 examples.</p>	<p>05.01.2016 29 .. 2016</p>	<p>zip 1.0 MB</p>	<p>Download</p>
<p>Application note for installing a MySQL-Server on a PFC-Controller</p> <p>This Application Note explains how a MySQL-Server can be set up and used on a PFC 200. The Application shows how measurement values of the 3-Phase Power Measurement Module can be written into a database.</p>	<p>V 1.0.4 16 .. 2019</p>	<p>zip 4.5 MB</p>	<p>Download</p>
<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 29 .. 2019</p>	<p>zip 3.1 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 26 .. 2019</p>	<p>zip 5.0 MB</p>	<p>Download</p>
<p><b>Application Note e!COCKPIT</b></p>			
<p>e!COCKPIT application note WagoAppCloud</p> <p>This application note explains how the WAGO controllers PFC100 and PFC200 can communicate with cloud services like Microsoft Azure (WAGO Cloud), Amazon AWS and IBM Bluemix. Data could be send to the cloud and commands could receive from the cloud. The libraries WagoLibCloud for WAGO-I/O-PRO V2.3 and WagoAppCloud for e!COCKPIT are used.</p>	<p>2019-10-21 21 .. 2019</p>	<p>zip 3.9 MB</p>	<p>Download</p>
<p>SNMP Communication (a500850)</p> <p>This application note explains how the WAGO controllers PFC100 and PFC200 can communicate via SNMP: Sending traps / inform notifications, creating an MIB and using the controller as an SNMP agent. To do so, the SNMP-specific libraries for WAGO-I/O-PRO V2.3 and e!COCKPIT are used.</p>	<p>V1.1.0 20 .. 2020</p>	<p>zip 3.8 MB</p>	<p>Download</p>
<p>HART Tool Routing via ETHERNET with 750-820x and e!RUNTIME (a116130)</p>	<p>1.0.0 22 .. 2019</p>	<p>pdf 2.9 MB</p>	<p>Download</p>

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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.

eCOCKPIT application note installation MySQL-Server	2019-09-09	pdf	Download
This Application Note explains how a MySQL-Server can be set up and used on a PFC 200. The Application shows how measurement values of the 3-Phase Power Measurement Module can be written into a database.	9 .. 2019	1.9 MB	

e!COCKPIT Application Note WAGO Gateway Application	V 1.0.0.0	pdf	Download
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.	11 .. 2019	8.6 MB	

## Libraries

### Library

WagoLibLed	1.0.0	pdf	Download
This library contains function blocks that can be used for control and querying of the user LEDs and for querying of the status LEDs. Depending on the device design, not all of the user or status LEDs may be provided.		516.5 kB	

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).		349.1 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	

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<p>WagoLibNetSnmpManager</p> <p>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.</p>	<p>1.1.0</p>	<p>pdf</p> <p>1.1 MB</p>	<p>Download</p>
<p>WagoLibCpuUsage</p> <p>This library enables you to determine the CPU load (usage).</p>	<p>1.0.0</p>	<p>pdf</p> <p>265.7 kB</p>	<p>Download</p>
<p>ModuleAccess_01.lib</p> <p>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.</p>	<p>1.8.7</p> <p>27 .. 2020</p>	<p>zip</p> <p>2.2 MB</p>	<p>Download</p>
<p>WAGO_Datalogger_02.lib</p> <p>The FbDatalogger function block logs entries from up to 80 channels at an interval of min. one second in a CSV file.</p>	<p>2.4</p> <p>13 .. 2017</p>	<p>zip</p> <p>678.0 kB</p>	<p>Download</p>
<p>Library WagoLibCloud_02.lib</p> <p>Die Bibliothek dient zur Kommunikation des WAGO Controller PFC100 und PFC200 mit Cloud Diensten wie Microsoft Azure (WAGO Cloud), Amazon AWS and IBM Bluemix. Daten können zur Cloud gesendet und Kommandos von der Cloud empfangen werden.</p>	<p>V2.2.4</p> <p>21 .. 2020</p>	<p>zip</p> <p>57.6 kB</p>	<p>Download</p>

## Engineering-Software

### e!COCKPIT

<p>e!COCKPIT</p> <p>Register at no cost and test our engineering software for 30 days.</p>	<p>V 1.6.1</p> <p>12 .. 2019</p>	<p>ZIP</p> <p>2.6 GB</p>	<p>Download</p>
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### Configuration and Commissioning Software

<p>WAGO-IO-PRO Demo-Version (759-912) / Serie 750, 758 und 762</p>	<p>2.3.9.55</p> <p>3 .. 2015</p>	<p>zip</p> <p>108.3 MB</p>	<p>Download</p>
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## Runtime Software

### Linux® Toolchain

<p>Linux® Board Support Package (BSP)</p> <p>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.</p>	<p>2018.2.8.FW(11)35</p> <p>27 .. 2018</p>	<p>TXT</p> <p>14.1 kB</p>	<p>Download</p>
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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:

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



- 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; light gray	15 9 .. 2019	zip 85.2 MB	Download
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## Software Solutions (Applications)

### Energy data management

Software for Application Energy Data Management EDM 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.	V 2020-04-09 9 .. 2020	ZIP 461.4 MB	Download
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## IoT/ Cloud

### "Remote Access" Beta Software

"Remote Access" Beta Software Register for the beta version of "Remote Access" for the WAGO Cloud.	V 0.10.0.0 2 .. 2019	ZIP 1.7 MB	Download
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## CAD/CAE-Data

### CAD data

2D/3D Models 750-8212		URL	Download
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## Installation Notes

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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.



## Product family

### Controller 750

[Learn more about the product family.](#)

[Show all products from the family](#)

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