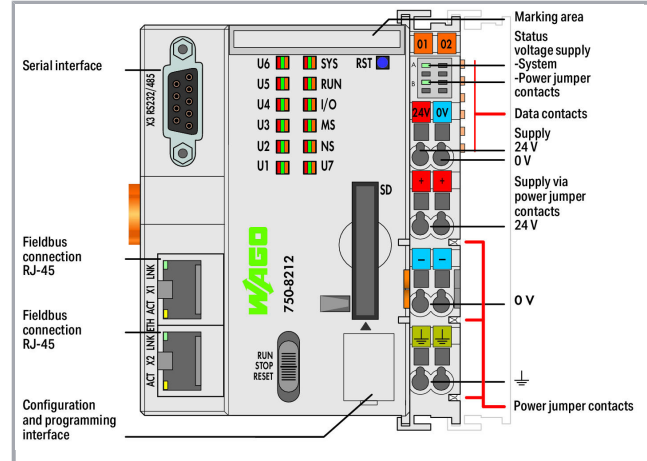
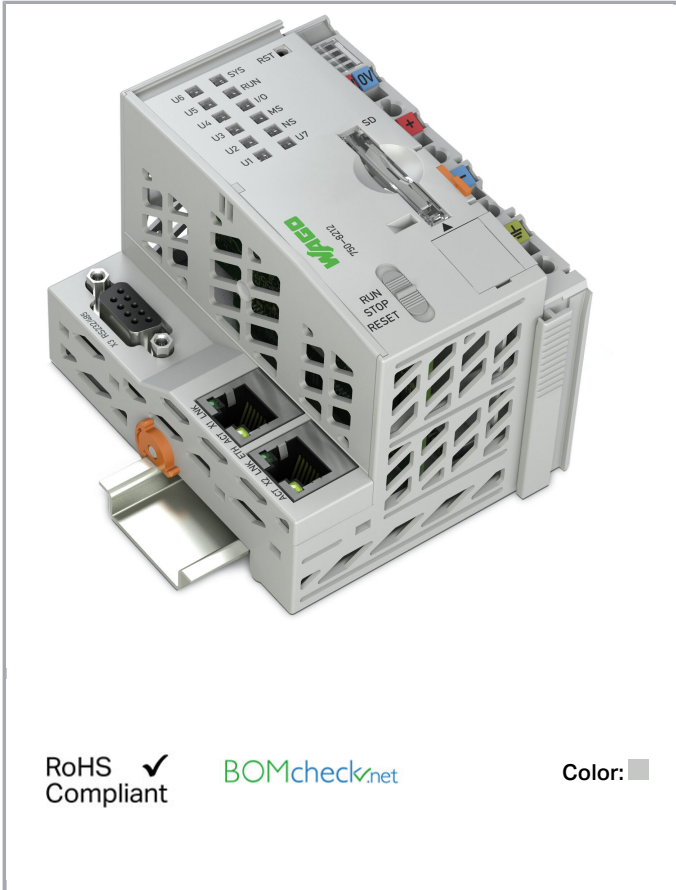


Data sheet | Item number: 750-8212

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

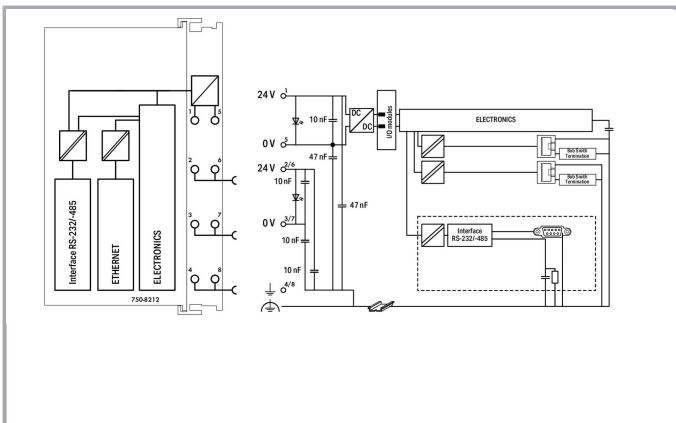
www.wago.com/750-8212



RoHS Compliant



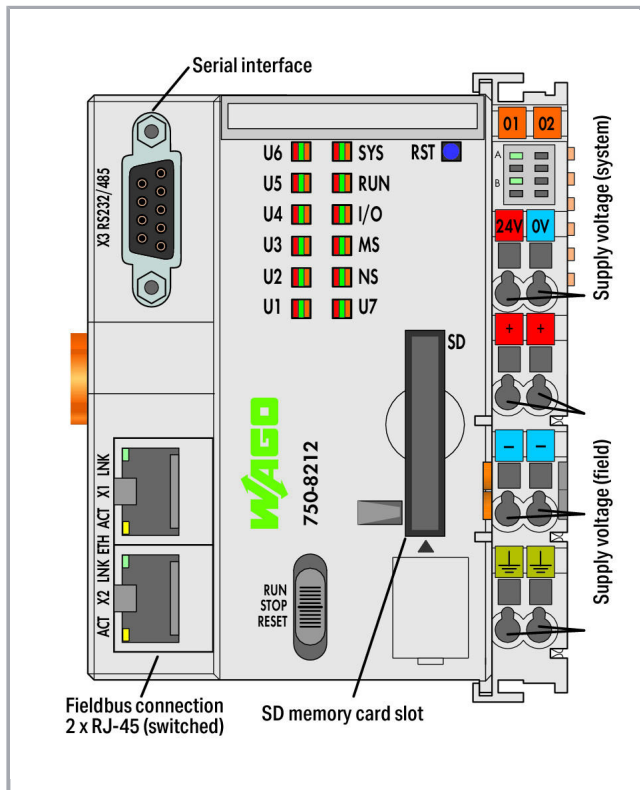
Color: ■



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

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 32423 Minden
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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 protocols	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
Non-volatile hardware memory	128 Kbytes

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Program memory	CODESYS V2: 16 MB; e!RUNTIME: 60 MB (Program and data memory (dynamically distributed))
Data memory	CODESYS V2: 64 MB; e!RUNTIME: 60 MB Program and data memory (dynamically distributed)
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.)	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
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)	, N/A
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	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 ² / 28 ... 14 AWG
Fine-stranded conductor	0,08 ... 2,5 mm ² / 28 ... 14 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 inch
Connection technology: Device configuration	1 x Male connector; 4-pole

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



Geometrical Data

Width	78,6 mm / 3.094 inch
Height	71,9 mm / 2.831 inch
Height from upper-edge of DIN-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 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
Permissible H ₂ S contaminant concentration at a relative humidity 75 %	10 ppm
Permissible SO ₂ contaminant concentration at a relative humidity 75 %	25 ppm

Commercial data

Packaging type	BOX
Country of origin	DE

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

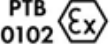


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GTIN	4055143758789
Customs tariff number	85371091990

Approvals / Certificates




Ex-Approvals

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

Country specific Approvals

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

Ship Approvals

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

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

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PRS
Polski Rejestr Statków

TE/2236
/880590/19




UL-Approvals

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





Counterpart

Compatible products

General accessories

	Item no.: 750-921 Bluetooth® Adapter; light gray	www.wago.com/750-921
	Item no.: 750-923 Configuration cable; USB connector; Length: 2.5 m; black	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

















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
	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
	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
	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















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	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
	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
	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
	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
	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
	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
	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
	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
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
	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
	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
	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
	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
	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
	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
	Item no.: 850-825 IP65 enclosure; Aluminium (RAL 7032); WxHxD (160x100x160 mm); 9 x M12, 4 x M20	www.wago.com/850-825

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
	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
	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
	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
	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
	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
	Item no.: 850-834 IP65 enclosure; Polyester (RAL 7032); WxHxD (164x100x164 mm); 9 x M12, 4 x M20	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
	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
Marking accessories		
	Item no.: 2009-145 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white	www.wago.com/2009-145
	Item no.: 2009-145/000-002 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow	www.wago.com/2009-145/000-002
	Item no.: 2009-145/000-005 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red	www.wago.com/2009-145/000-005
	Item no.: 2009-145/000-006 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue	www.wago.com/2009-145/000-006
	Item no.: 2009-145/000-007 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray	www.wago.com/2009-145/000-007

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

	Item no.: 2009-145/000-012 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange	www.wago.com/2009-145/000-012
	Item no.: 2009-145/000-023 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green	www.wago.com/2009-145/000-023
	Item no.: 2009-145/000-024 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet	www.wago.com/2009-145/000-024
	Item no.: 248-501 Miniature WSB Quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card	www.wago.com/248-501
	Item no.: 248-501/000-002 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow	www.wago.com/248-501/000-002
	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
	Item no.: 248-501/000-006 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; blue	www.wago.com/248-501/000-006
	Item no.: 248-501/000-007 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; gray	www.wago.com/248-501/000-007
	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
	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
	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
	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
	Item no.: 750-103 Group marker carrier; transparent	www.wago.com/750-103
	Item no.: 750-107 Group marker carrier; transparent	www.wago.com/750-107

software

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



Item no.: 2759-101/1110-2002
e!COCKPIT; Workstation License

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



Item no.: 2759-101/1110-2010
e!COCKPIT; Multi-User License; 10 pcs

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



Item no.: 2759-101/1110-2020
e!COCKPIT; Multi-User License; 20 pcs

www.wago.com/2759-101/1110-2020



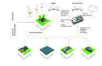
Item no.: 2759-101/1110-3000
e!COCKPIT; Site License

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



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



Item no.: 2759-204/261-1000
Application Lighting Management; Single License; Online activation

www.wago.com/2759-204/261-1000



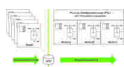
Item no.: 2759-206/261-1000
Application Energy Data Management; Single License; Online activation

www.wago.com/2759-206/261-1000



Item no.: 2759-207/271-1000
Visualization Energy Data Management; Single License; Online activation

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



Item no.: 2759-2101/271-1000
Visualization Lighting Management; Single License; S; Online activation

www.wago.com/2759-2101/271-1000

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



Item no.: 2759-2102/271-1000
Visualization Lighting Management; Single License; M; Online activation

www.wago.com/2759-2102/271-1000



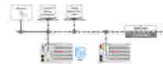
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Visualization Lighting Management; Single License; L; Online activation

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



Item no.: 2759-2283/211-1000
e!RUNTIME; BACnet; 300; Single License; M; Online activation

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



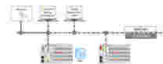
Item no.: 2759-247/211-1000
e!RUNTIME; Sparkplug; Single License; Online activation

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



Item no.: 2759-283/211-1000
e!RUNTIME; BACnet; 300; Single License; Online activation

www.wago.com/2759-283/211-1000



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

www.wago.com/759-333



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

www.wago.com/759-333/000-923



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

www.wago.com/759-911

wiring and connectors



Item no.: 750-975
ETHERNET RJ-45 connector, IP20; ETHERNET 10/100 Mbit/s; for field assembly; light gray

www.wago.com/750-975



Item no.: 750-977/000-011
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22















www.wago.com/750-977/000-011






Item no.: 750-977/000-012
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22

www.wago.com/750-977/000-012

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

	<p>Item no.: 750-977/000-021 Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24</p>	www.wago.com/750-977/000-021
	<p>Item no.: 750-977/000-022 Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24</p>	www.wago.com/750-977/000-022
	<p>Item no.: 750-978/000-011 Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22; Strain relief</p>	www.wago.com/750-978/000-011
	<p>Item no.: 750-978/000-012 Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22; Strain relief</p>	www.wago.com/750-978/000-012
	<p>Item no.: 750-978/000-021 Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24; Strain relief</p>	www.wago.com/750-978/000-021
	<p>Item no.: 750-978/000-022 Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24; Strain relief</p>	www.wago.com/750-978/000-022
	<p>Item no.: 750-979/000-011 Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568A; AWG 22; Strain relief</p>	www.wago.com/750-979/000-011
	<p>Item no.: 750-979/000-012 Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 22; Strain relief</p>	www.wago.com/750-979/000-012
	<p>Item no.: 750-979/000-021 Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568A; AWG 24; Strain relief</p>	www.wago.com/750-979/000-021
	<p>Item no.: 750-979/000-022 Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 24; Strain relief</p>	www.wago.com/750-979/000-022
shield connection		
	<p>Item no.: 790-108 Shield clamping saddle; 11 mm wide; diameter of compatible conductor; 3 ... 8 mm</p>	www.wago.com/790-108
	<p>Item no.: 790-116 Shield clamping saddle; 19 mm wide; diameter of compatible conductor; 7 ... 16 mm</p>	www.wago.com/790-116
	<p>Item no.: 790-124 Shield clamping saddle; 27 mm wide; diameter of compatible conductor; 6 ... 24 mm</p>	www.wago.com/790-124
	<p>Item no.: 790-140 Shield clamping saddle; diameter of compatible conductor</p>	www.wago.com/790-140

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	Item no.: 790-208 Shield clamping saddle; 12.4 mm wide; 3 ... 8 mm	www.wago.com/790-208
	Item no.: 790-216 Shield clamping saddle; 21.8 mm wide; 6 ... 16 mm	www.wago.com/790-216
	Item no.: 790-220 Shield clamping saddle; 30 mm wide; 6 ... 20 mm	www.wago.com/790-220

Downloads

Documentation

Manual

PFC200 G2 2ETH RS Controller PFC200; 2nd Generation; 2 x ETHERNET, RS-232/-485	V 1.3.0 15-nov-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

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-dec-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-aug-2017	mp4 29.0 MB	Download

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

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Application Notes

Application Note CoDeSys 2.3

WagoConfigToolLIB	1.0.0	pdf	Download
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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

ModuleAccess_01.lib	1.8.7	zip	Download
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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-jan-2020

2.2 MB

Connection of Thermokon Multi-function room control units WRF 08	10.04.2019	zip	Download
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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-apr-2019

876.4 kB

Application Note Connecting with an iPod Touch	30.03.2011	zip	Download
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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.

28-okt-2011

439.1 kB

Application Note Library WagoDatalogger_02	2020-05-20	zip	Download
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This application note describes the use of the WagoDatalogger_02.lib library. Up to 80 analog or digital signals can be recorded.

20-mei-2020

1.3 MB

Connection of Thermokon Multi-function room control units WRF 06	10.04.2019	zip	Download
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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.

8-apr-2016

845.9 kB

HLK-Anlagenmakros für TRIC	10-jul-2015	zip	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.

76.8 MB

Application Note for the 750-494 3-Phase Power Measurement Module	24.01.2014	zip	Download
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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.

11-nov-2014

1.7 MB

Application Note: DMX_02	26.04.2017	zip	Download
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26-apr-2017

751.0 kB

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

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We are always happy to take your call at +49 (571) 887-44222.



This application note describes how a DMX master for DMX device control can be performed via 750-652 serial interface.

<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-jan-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-mrt-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-sep-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-nov-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-jul-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 2020-06-16 16-jun-2020</p>	<p>zip 7.4 MB</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 22-mrt-2019</p>	<p>pdf 3.9 MB</p>	<p>Download</p>
<p>Application Note Scheduler_03.lib</p>	<p>20.05.2011 20-mei-2011</p>	<p>zip 1.8 MB</p>	<p>Download</p>

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

This application note describes different applications of the Scheduler_03.lib library.

<p>Anwendungshinweis für die Steuerung eines Icus robotlink</p> <p>Der Anwendungshinweis beschreibt anhand einer Demoapplikation die Steuerung eines Icus robotlink® Roboterarms mit sechs Achsen. Als Steuerung wird ein Wago PFC200 (Art.-Nr. 750-8202) verwendet.</p>	<p>12.11.2015 12-nov-2015</p>	<p>zip 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 13-mei-2013</p>	<p>zip 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 29-aug-2016</p>	<p>zip 521.3 kB</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 19-mrt-2012</p>	<p>zip 954.5 kB</p>	<p>Download</p>
<p>Application Note Weather Station Elsner P03 Modbus</p> <p>This application note describes how communication can be set up between the WAGO I/O System and the ELSNER P03/3 weather station with a Modbus interface.</p>	<p>01.12.2011 28-okt-2011</p>	<p>zip 275.6 kB</p>	<p>Download</p>
<p>GRUNDFOS GENIbus interface, application note</p> <p>This application note describes how communication between the WAGO-I/O-SYSTEM and the Grundfos MAGNA series circulation pumps can be performed via GENIbus interface.</p>	<p>20.03.2017 20-mrt-2017</p>	<p>zip 286.6 kB</p>	<p>Download</p>
<p>Connection of DMX devices to the WAGO-I/O-SYSTEM via the ArtNet-DMX STAGE-PROFI 1.1</p> <p>This application note describes connecting the ArtNet-DMX STAGE-PROFI 1.1 to the WAGO-I/O-SYSTEM. The ArtNet-DMX STAGE-PROFI 1.1 can be operated as a DMX master and a DMX slave.</p>	<p>11.01.2013 11-jan-2013</p>	<p>zip 1.5 MB</p>	<p>Download</p>
<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-jan-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-jan-2016</p>	<p>zip 1.0 MB</p>	<p>Download</p>

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Application note for installing a MySQL-Server on a PFC-Controller 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.	V 1.0.4 16-mei-2019	zip 4.5 MB	Download
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Application note: DALI 753-647 Configuration Interface 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.	V1.0.2 29-apr-2019	zip 3.1 MB	Download
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Using the web visualization with Java™ runtime environment (JRE, JVM) 7 update 51 (7u51) (a500690) 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.	V1.2.4 26-feb-2019	zip 5.0 MB	Download
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Application Note e!COCKPIT

e!COCKPIT application note WagoAppCloud 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.	2019-10-21 21-okt-2019	zip 3.9 MB	Download
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SNMP Communication (a500850) 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 20-feb-2020	zip 3.8 MB	Download
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HART Tool Routing via ETHERNET with 750-820x and e!RUNTIME (a116130) 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.	1.0.0 22-mrt-2019	pdf 2.9 MB	Download
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eCOCKPIT application note installation MySQL-Server 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.	2019-09-09 9-sep-2019	pdf 1.9 MB	Download
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e!COCKPIT Application Note WAGO Gateway Application Subject to changes. Please also observe the further product documentation!	V 1.0.0.0	pdf	Download
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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-nov-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.			
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).			
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.			
WagoLibNetSnmpManager	1.1.0	pdf	Download
The "WagoLibNetSnmpManager.lib" library is used to implement SNMP manager functions. This makes it possible to access other SNMP agents as well as call and modify OIDs via an IEC program.			
WagoLibCpuUsage	1.0.0	pdf	Download
This library enables you to determine the CPU load (usage).			
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.			
WAGO_Datalogger_02.lib	2.7	zip	Download

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The FbDatalogger function block logs entries from up to 80 channels at an interval of min. one second in a CSV file.	20-mei-2020	678.8 kB	
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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 and IBM Bluemix. Daten können zur Cloud gesendet und Kommandos von der Cloud empfangen werden.	21-jan-2020	57.6 kB	

Engineering-Software

e!COCKPIT

e!COCKPIT	V 1.6.1.5	ZIP	Download
Register at no cost and test our engineering software for 30 days.	3-jun-2020	2.8 GB	

Configuration and Commissioning Software

WAGO-IO-PRO Demo-Version (759-912) / Serie 750, 758 und 762	2.3.9.55	zip	Download
	3-jul-2015	108.3 MB	

Runtime Software

Linux® Toolchain

Linux® Board Support Package (BSP)	2018.2.8.FW(11)35	TXT	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.	27-aug-2018	14.1 kB	

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; light gray	15	zip	Download
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Software Solutions (Applications)

Energy data management

Software for Application Energy Data Management EDM	2020-05-26	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.	26-mei-2020	470.0 MB	

Application-Based Controller Redundancy

Application-Based Controller Redundancy	2020-05-20	zip	Download
Increase availability in central ship alarm systems with WAGO's Application-Based Controller Redundancy (ACR).	20-mei-2020	179.8 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 PFC200) communicate with higher-level SCADA systems, for example, via the Modbus TCP protocol.</p>			

IoT/ Cloud

"Remote Access" Beta Software

"Remote Access" Beta Software	V 0.10.0.0	ZIP	Download
Register for the beta version of "Remote Access" for the WAGO Cloud.	2-okt-2019	1.7 MB	

CAD/CAE-Data

CAD data

2D/3D Models 750-8212	URL	Download
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Handling Instructions

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Product family

Controller 750

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

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