

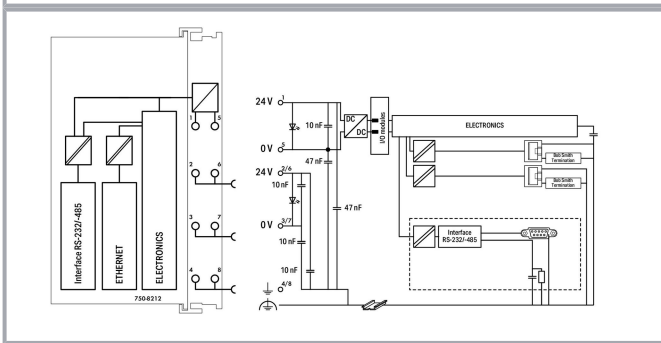
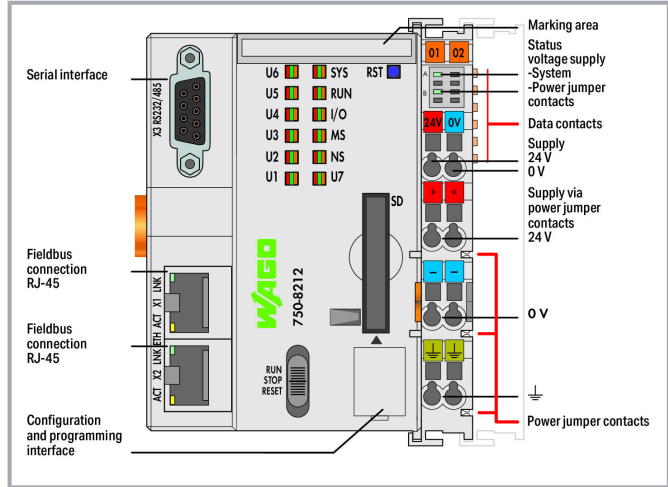
Data sheet | Item number: 750-8212

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

www.wago.com/750-8212



Color:



Item description

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

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

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

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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.



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

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

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



	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)	4096 MB
Non-volatile hardware memory	128 Kbytes
Program memory	CODESYS V2: 16 MB; e!RUNTIME: 32 MB
Data memory	CODESYS V2: 64 MB; e!RUNTIME: 128 MB
Non-volatile software memory	128 Kbytes
Non-volatile software memory	128. Kbytes
Memory card type	SD and SDHC up to 32 GB (all guaranteed properties only valid with WAGO Memory Card)
Memory card slot	Push-push mechanism; Cover lid (sealable)
Number of modules per node (max.)	250
Number of modules without a bus extension (max.)	64
Input and output (internal) process image (max.)	1000 Worte/1000 Worte
Input and output (MODBUS) process image (max.)	CODESYS V2: 1000 Worte/1000 Worte; e!RUNTIME: 32000 Worte /32000 Worte
Indicators	LED (SYS, RUN, I/O, U1 ... U7) red/green/orange: Status of system, program, local data bus, status programmable by user (can be used via CODESYS library); LED (A, B) green: Status of system power supply, field supply
Supply voltage (system)	24 VDC (-25 ... +30 %); via pluggable connector (CAGE CLAMP® connection)
Input current (typ.) at nominal load (24 V)	550 mA
Total current (system supply)	1,700 mA
Supply voltage (field)	24 VDC (-25 ... +30 %); via power jumper contacts
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
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Subject to changes. Please also observe the further product documentation!



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

Physical data

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

Mechanical data

Weight	214.8 g
Color	light gray
Housing material	Polycarbonate; polyamide 6.6
Conformity marking	CE

Environmental requirements

Surrounding air temperature (operation)	0 ... 55 °C
Surrounding air temperature (storage)	-25 ... 85 °C
Protection type	IP20
Pollution degree (5)	2 per IEC 61131-2
Operating altitude	without temperature derating: 0 ... 2000 m; with temperature derating: 2000 ... 5000 m (0.5 K/100 m); 5000 m (max.)
Relative humidity (without condensation)	95 %
Mounting position	any
Mounting type	DIN-35 rail
Vibration resistance	4g per IEC 60068-2-6
Shock resistance	15g per IEC 60068-2-27
EMC immunity to interference	per EN 61000-6-2, marine applications
EMC emission of interference	per EN 61000-6-3, marine applications
Exposure to pollutants	Per IEC 60068-2-42 and IEC 60068-2-43
Fire load	2.082 MJ

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

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Permissible H₂S contaminant concentration at a relative humidity 75 10 ppm
%

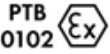




Permissible SO₂ contaminant concentration at a relative humidity 75 25 ppm
%

Commercial data

Packaging type	BOX
Country of origin	DE
GTIN	4055143758789
Customs tariff number	85371091990

Approvals / Certificates

Ex-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	ATEX TUEV Nord Cert GmbH	EN 60079	TUEV_14_ATEX_148929_X
	CCCEX CQST/CNEX	CNCA-C23-01	2020312310000213
	EAC Brjansker Zertifizierungsstelle	TP TC 012/2011	EAC RU C-DE.AM02.B. 00163/19
	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
	EAC Brjansker Zertifizierungsstelle	TP TC 012/2011	EAC RU C- DE.AM02. B.00163

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




	KC National Radio Research Agency	Article 58-2, Clause 3	MSIP- REM-W43- PFC750
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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)
	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

Compatible products




General accessories

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

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














	Item no.: 750-923/000-001 Configuration cable; USB connector; Length: 5 m	www.wago.com/750-923/000-001
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
	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	

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















	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
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; silver-colored	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; silver-colored	www.wago.com/210-113
	Item no.: 210-114 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored	www.wago.com/210-114
	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; silver-colored	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; silver-colored	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; silver-colored	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; silver-colored	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; silver-colored	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; silver-colored	www.wago.com/210-506
	Item no.: 210-508 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715; silver-colored	www.wago.com/210-508

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

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
	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


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
	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	www.wago.com/750-103
	Item no.: 750-107 Group marker carrier	www.wago.com/750-107
wiring and connectors		
	Item no.: 750-975 ETHERNET RJ-45 connector, IP20; ETHERNET 10/100 Mbit/s; for field assembly	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
	Item no.: 750-977/000-021 Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24	www.wago.com/750-977/000-021
	Item no.: 750-977/000-022 Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24	www.wago.com/750-977/000-022
	Item no.: 750-978/000-011 Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22; Strain relief	www.wago.com/750-978/000-011
	Item no.: 750-978/000-012 Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22; Strain relief	www.wago.com/750-978/000-012
	Item no.: 750-978/000-021 Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24; Strain relief	www.wago.com/750-978/000-021


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

	Item no.: 750-978/000-022 Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24; Strain relief	www.wago.com/750-978/000-022
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	Item no.: 750-979/000-011 Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568A; AWG 22; Strain relief	www.wago.com/750-979/000-011
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	Item no.: 750-979/000-012 Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 22; Strain relief	www.wago.com/750-979/000-012
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	Item no.: 750-979/000-021 Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568A; AWG 24; Strain relief	www.wago.com/750-979/000-021
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	Item no.: 750-979/000-022 Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 24; Strain relief	www.wago.com/750-979/000-022
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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
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	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
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shield connection

	Item no.: 790-108 Shield clamping saddle; 11 mm wide; diameter of compatible conductor; 3 ... 8 mm	www.wago.com/790-108
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	Item no.: 790-116 Shield clamping saddle; 19 mm wide; diameter of compatible conductor; 7 ... 16 mm	www.wago.com/790-116
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	Item no.: 790-124 Shield clamping saddle; 27 mm wide; diameter of compatible conductor; 6 ... 24 mm	www.wago.com/790-124
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	Item no.: 790-140 Shield clamping saddle; diameter of compatible conductor	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
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	Item no.: 790-216 Shield clamping saddle; 21.8 mm wide; 6 ... 16 mm	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
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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; S; Single License; 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; M; Single License; Online activation

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



Item no.: 2759-2103/271-1000

Visualization Lighting Management; L; Single License; Online activation

www.wago.com/2759-2103/271-1000



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; M; Single License; 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.: 2759-248/211-1000

e!RUNTIME; Multi Cloud Connectivity; Single License; Online activation

www.wago.com/2759-248/211-1000



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

Downloads

Documentation

Manual

Manual WAGO Gateway Application

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

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<p>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.</p>	<p>1.0.0.0 2019. gada 11. nov.</p>	<p>pdf 8.6 MB</p>	<p>Download</p>
<p>Cyber Security for Controller PFC100 / PFC200</p>	<p>V 1.2.0</p>	<p>pdf 8.3 MB</p>	<p>Download</p>
<p>PFC200 G2 2ETH RS Controller PFC200; 2nd Generation; 2 x ETHERNET, RS-232/-485</p>	<p>V 1.5.0 2020. gada 10. dec.</p>	<p>pdf 7.2 MB</p>	<p>Download</p>
<p>WAGO Application flexROOM® For the configuration of distribution bowes containing a PFC200 controller (750-8212).</p>	<p>V 3.2.1 2021. gada 4. febr.</p>	<p>pdf 10.6 MB</p>	<p>Download</p>
<p>WAGO MODBUS Master Configurator for configuration of MODBUS networks in WAGO-I/O-PRO (CODESYS)</p>	<p>V 1.1.0</p>	<p>pdf 1.8 MB</p>	<p>Download</p>
<p>e!RUNTIME EtherCAT® Master</p>	<p>V 1.1.1 2019. gada 17. dec.</p>	<p>pdf 879.5 kB</p>	<p>Download</p>
<p>Manual WAGO Application Weather Station Weather Station makes data from the connected weather sensors, such as temperature, precipitation, wind speed and light intensity, available on a network for further processing and display in a visualization or a management system. It also provides central functions like weather protection, glare protection, automation based on the position of the sun (slat tracking) and timer programs.</p>	<p>2.0.2 2020. gada 26. aug.</p>	<p>pdf 23.4 MB</p>	<p>Download</p>
<p>Dokumentation Grid Gateway Mithilfe der Applikation "Grid Gateway" können die Messwerte der Mittelspannung, des Transformators, der Niederspannungsabgänge, Stellungsmeldungen und Temperaturen von der Ortsnetzstation an die Netzleittechnik übermittelt werden. Die Kommunikation</p>	<p>1.0.0.0 2021. gada 18. febr.</p>	<p>pdf 7.5 MB</p>	<p>Download</p>

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

Systemhandbuch WAGO I/O System 750 / 753 Dezentrale Automatisierungstechnik	V 3.0.0 2021. gada 4. marts	pdf 6.6 MB	Download
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Bid Text

750-8212 X81 - Datei	2019. gada 19. febr.	xml 10.1 kB	Download
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750-8212 docx - Datei	2018. gada 21. nov.	docx 22.4 kB	Download
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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 2017. gada 18. dec.	mp4 88.3 MB	Download
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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. gada 5. aug.	mp4 29.0 MB	Download
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Additional Information

Disposal; Electrical and electronic equipment, Packaging	V 1.0.0	pdf 265.8 kB	Download
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e!RUNTIME EtherCAT® Master	V 1.1.1 2019. gada 17. dec.	pdf 879.5 kB	Download
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WAGO OPC UA Server	V 1.1.0 2021. gada 28. janv.	pdf 1.2 MB	Download
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Compatibility Information

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

System Description

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

Application Notes

Application Note CoDeSys 2.3

Application note for installing a MySQL-Server on a PFC-Controller	V 1.0.4	zip	Download
This Application Note explains how a MySQL-Server can be set up and used on a PFC 200. The Application shows how measurement values of the 3-Phase Power Measurement Module can be written into a database.			
Application Note Data Plotter	2020-09-17	zip	Download
The Data Plotter is a Web application that can be used as a visualization tool for the data logger in CODESYS V2.3 and e!COCKPIT. It allows the user to graphically display data captured by the data logger library (WAGO_Datalogger_02.lib for CODESYS V2.3 and WagoAppDatalogger for e!COCKPIT from V1.2.100.6023).			
Anbindung der HKW-Elektronik Wetterprognose-Station WS-K xx T ModBus	V 1.1	zip	Download
Dieser Anwendungshinweis beschreibt, wie die Kommunikation zwischen dem WAGO-I/O-System und einer HKW-Elektronik Wetterprognose-Station Kompakt realisiert werden kann.			
HVAC System Macros	10.03.2017	zip	Download
WAGO provides system macros for HVAC applications that are based on Building_HVAC_03.lib.			
Application Note for the 750-495 3-Phase Power Measurement Module	24.01.2014	zip	Download
The application note for the 3-Phase Power Measurement Module 750-495 shows how the measured values of the power measurement module can be read. It is also shown how the power module can be configured using the WAGO-I/O-PRO- V2.3 visualization tool.			

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<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 2019. gada 17. sept.</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 2016. gada 30. nov.</p>	<p>zip 842.0 kB</p>	<p>Download</p>
<p>HLK-Anlagenmakros für TRIC</p> <p>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>	<p>2015-07-10 2015. gada 10. jül.</p>	<p>zip 76.8 MB</p>	<p>Download</p>
<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 2014. gada 11. nov.</p>	<p>zip 1.7 MB</p>	<p>Download</p>
<p>Connection of Thermokon Multi-function room control units WRF 06</p> <p>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.</p>	<p>10.04.2019 2016. gada 8. apr.</p>	<p>zip 845.9 kB</p>	<p>Download</p>
<p>Application Note Connecting with an iPod Touch</p> <p>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.</p>	<p>30.03.2011 2011. gada 28. okt.</p>	<p>zip 439.1 kB</p>	<p>Download</p>
<p>Application Note Library WagoDatalogger_02</p> <p>This application note describes the use of the WagoDatalogger_02.lib library. Up to 80 analog or digital signals can be recorded.</p>	<p>2020-05-20 2020. gada 20. maijs</p>	<p>zip 1.3 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 2017. gada 26. apr.</p>	<p>zip 751.0 kB</p>	<p>Download</p>
<p>Connection of Thermokon Multi-function room control units WRF 08</p> <p>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.</p>	<p>10.04.2019 2019. gada 10. apr.</p>	<p>zip 876.4 kB</p>	<p>Download</p>

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<p>Application note: DALI 753-647 Configuration Interface</p> <p>This application note describes the WAGO DALI Configurator, the integration of the DALI visualization for configuring various sensor types and the implementation in a program.</p>	V1.0.2 2019. gada 29. apr.	zip 3.1 MB	Download
<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>	12.11.2015 2015. gada 12. nov.	zip 1.3 MB	Download
<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>	02.05.2013 2013. gada 13. maijs	zip 313.2 kB	Download
<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>	V1.0.0 2016. gada 29. aug.	zip 521.3 kB	Download
<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>	1.0.0 2019. gada 22. marts	pdf 3.9 MB	Download
<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>	V1.2.4 2019. gada 26. febr.	zip 5.0 MB	Download
<p>Application Note Scheduler_03.lib</p> <p>This application note describes different applications of the Scheduler_03.lib library.</p>	20.05.2011 2011. gada 20. maijs	zip 1.8 MB	Download
<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>	19.01.2011 2012. gada 19. marts	zip 954.5 kB	Download
<p>Application Note Weather Station Elsner P03 Modbus</p> <p>Subject to changes. Please also observe the further product documentation!</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>	01.12.2011 2011. gada 28. okt.	zip 275.6 kB	Download
<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>	20.03.2017 2017. gada 20. marts	zip 286.6 kB	Download
<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>	11.01.2013 2013. gada 11. janv.	zip 1.5 MB	Download
<p>Application Note Library ModuleAccess_01</p> <p>These instructions describe the use of the ModuleAccess_01.lib library using 4 examples.</p>	05.01.2016 2016. gada 29. janv.	zip 1.0 MB	Download
<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>	2020-08-14 2020. gada 14. aug.	zip 526.0 kB	Download
Application Note e!COCKPIT			
<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 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>	2020-09-17 2020. gada 17. sept.	zip 6.7 MB	Download
<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>	V1.1.0 2020. gada 20. febr.	zip 3.8 MB	Download
<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>	2020-11-27 2020. gada 27. nov.	zip 2.8 MB	Download
<p>eCOCKPIT application note installation MySQL-Server</p>	2019-09-09 2019. gada 9. sept.	pdf 1.9 MB	Download

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This Application Note explains how a MySQL-Server can be set up and used on a PFC 200. The Application shows how measurement values of the 3-Phase Power Measurement Module can be written into a database.

HART Tool Routing via ETHERNET with 750-820x and e!RUNTIME (a116130) 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 2019. gada 22. marts	pdf 2.9 MB	Download
e!COCKPIT AppNote GENIbus (a2021003) Description of controlling a GRUNDFOS pump type MAGNA3 25-40 180 connected to a RS485 communication module via the WAGO-I/O-SYSTEM.	2021-03-23 2021. gada 23. marts	pdf 720.3 kB	Download

Libraries

Library			
WagoLibCpuUsage This library enables you to determine the CPU load (usage).	1.0.0	pdf 265.7 kB	Download
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 2013. gada 8. okt.	pdf 349.1 kB	Download
Library WagoLibCloud_02.lib 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.	V2.2.4 2020. gada 21. janv.	zip 57.6 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 2020. gada 27. janv.	zip 2.2 MB	Download
WAGO_Datalogger_02.lib The FbDatalogger function block logs entries from up to 80 channels at an interval of min. one second in a CSV file.	2.7 2020. gada 20. maijs	zip 678.8 kB	Download
WagoLibDiagnosticIDs	1.0.0	pdf 298.2 kB	Download

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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.

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.			

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.			

Engineering-Software

e!COCKPIT

e!COCKPIT	V 1.8	ZIP	Download
Register at no cost and test our engineering software for 30 days.			
	2020. gada 2. dec.	3.0 GB	

Configuration and Commissioning Software

WAGO-IO-PRO Demo-Version (759-912) / Serie 750, 758 und 762	2.3.9.61	zip	Download
	2015. gada 3. jūl.	372.0 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.			
	2018. gada 27. aug.	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.

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- There are detailed instructions for many of these tasks and ideas (see How To's).

Firmware

Firmware: 750-8212 Controller PFC200; 2nd Generation; 2 x ETHERNET, RS-232/-485	18	zip	Download
	2020. gada 22. dec.	117.8 MB	

Software Solutions (Applications)

Energy data management

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

Application-Based Controller Redundancy

Application-Based Controller Redundancy	2021-02-15	zip	Download
Increase availability in central ship alarm systems with WAGO's Application-Based Controller Redundancy (ACR).	2021. gada 15. febr.	387.2 MB	

The licensed software library (2759-0245/0211-1000) and an *e!COCKPIT* redundancy framework (LINK) allows you to easily program and operate redundant master PLCs in single point of failure (SPOF) tolerant systems.

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.

These Master PLCs (2nd generation PFC200) communicate with higher-level SCADA systems, for example, via the Modbus TCP protocol.

The application notes (a2020003 and a2020004) describe the practical use of the library and define the application area and the maximum number of participants within the system.

Weather-Station

Weather Station Application	2.0.2	ZIP	Download
WAGO Weather Station makes all the relevant sensor data, such as temperature, precipitation, wind speed and light intensity, available for further processing and display in a visualization or a management system. Weather sensors from different manufacturers can be recorded on digital inputs and analog inputs and via RS-485.	2020. gada 31. aug.	106.0 MB	

It provides central functions like weather protection, automated glare protection and timer programs. The slat tracking based on the position of the sun ensures that the maximum amount of daylight is allowed into rooms while avoiding glare.

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Lighting management

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

IoT/ Cloud

"Remote Access" Beta Software

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

CAD/CAE-Data

CAD data

2D/3D Models 750-8212	URL	Download
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CAE data

ZUKEN Portal 750-8212	URL	Download
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EPLAN Data Portal 750-8212	URL	Download
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Environmental Product Compliance

Compliance Search

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

Installation Notes

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Product family

Controller 750

[Show all products from the family](#)

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