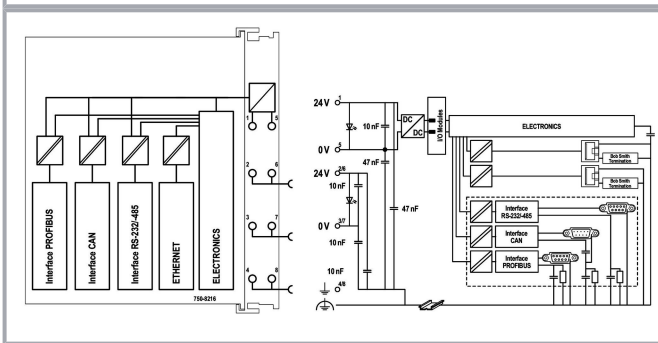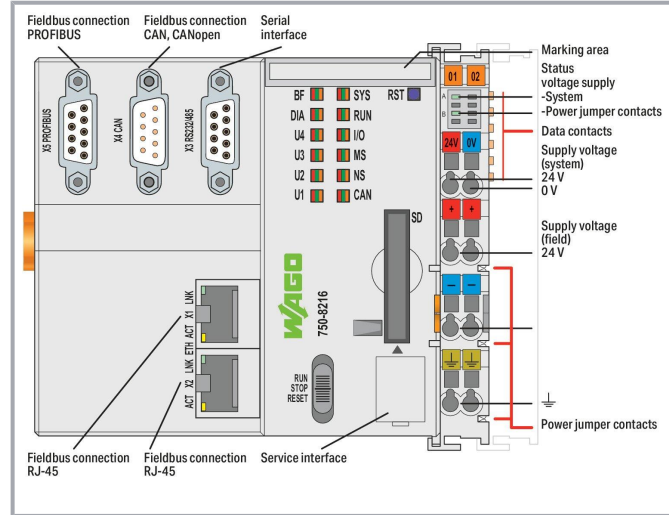# Data sheet | Item number: 750-8216/025-001

Controller PFC200; 2nd Generation; 2 x ETHERNET, RS-232/-485, CAN, CANopen, PROFIBUS Slave; Telecontrol technology; Ext. Temperature

www.wago.com/750-8216/025-001

i Picture differs from the item.

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.

PFC200 Communication Options Overview

CPU	Description	Item No. Standard	Ext. Temperature
Cortex A8; 1 GHz	Controller PFC200; 2nd Generation; 4 x ETHERNET	750-8210	750-8210/025-000
Cortex A8; 1 GHz	Controller PFC200; 2nd Generation; 2 x ETHERNET, 2 x SFP Ports	750-8211	
Cortex A8; 1 GHz	Controller PFC200; 2nd Generation; 2 x ETHERNET, RS-232/-485	750-8212	750-8212/025-000
	Telecontrol Technology / Telecontrol Technology; ECO		750-8212/025-001 / 750-8212/025-002
	BACnet/IP	750-8212/000-100	
Cortex A8; 1 GHz	Controller PFC200; 2nd Generation; 2 x ETHERNET, CAN, CANopen	750-8213	
Cortex A8; 1 GHz	Controller PFC200; 2nd Generation; 2 x ETHERNET, RS-232/-485, CAN, CANopen	750-8214	
Cortex A8; 1 GHz	Controller PFC200; 2nd Generation; 4 x ETHERNET, CAN, CANopen, USB	750-8215	
Cortex A8; 1 GHz	Controller PFC200; 2nd Generation; 2 x ETHERNET, RS-232/-485, CAN, CANopen, PROFIBUS Slave	750-8216	750-8216/025-000
	Telecontrol Technology		750-8216/025-001
Cortex A8; 1 GHz	Controller PFC200; 2nd Generation; 2 x ETHERNET, RS-232/-485, Mobile Radio Module; EU version	750-8217	750-8217/025-000
	Global version	750-8217/600-000	750-8217/625-000
Cortex A8; 600 MHz	Controller PFC200; 2 x ETHERNET, RS-232/-485, CAN, CANopen, PROFIBUS Master	750-8208	750-8208/025-000
	Telecontrol Technology		750-8208/025-001

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

Item description

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

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

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

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

Advantages:

- Programming per IEC 61131-3
- Programmable via CODESYS 3.5 with FW23 and above
- Programmable via WAGO-I/O-PRO V2.3 or *e!COCKPIT* with FW22
- Direct connection of WAGO's I/O modules

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

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- 2 x ETHERNET (configurable), RS-232/485, CAN, CANopen, PROFIBUS DP Slave
- Linux operating system with RT-Preempt patch
- Configuration via CODESYS or Web-Based Management interface
- Maintenance-free

Data
Technical data

Communication	PROFIBUS
	CANopen
	Modbus TCP master/slave
	Modbus (UDP), WagoAppPlcModbus Library
	Modbus (RTU), WagoAppPlcModbus Library
	ETHERNET
	EtherNet/IP^{TM} Adapter (slave)
	EtherNet/IP^{TM} Scanner
	EtherCAT® Master
	OPC UA Server/Client
	OPC UA Pub/Sub (can be installed later)
	MQTT
	Telecontrol protocols
	RS-232 serial interface
	RS-485 interface
	BACnet/IP, **requires an additional license**
ETHERNET protocols	DHCP
	DNS
	NTP
	FTP
	FTPS
	SNMP
	HTTP
	HTTPS
	SSH
Telecontrol protocols	IEC 60870
	IEC 61850
	DNP3
	IEC 60870-5-101/-103/-104
	IEC 61400-25
	IEC 61850-7
	DNP3
Visualization	Web-Visu
	Web Visu
Operating system	Real-time Linux (with RT-Preempt patch)
CPU	Cortex A8; 1 GHz

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

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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	CODESYS V3.5, from firmware release 23 *e!COCKPIT* (based on CODESYS V3), up to firmware release 22 WAGO-I/O-*PRO* V2.3 (based on CODESYS V2.3), up to firmware release 22
Configuration options	CODESYS V3 *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)	4096 MB
Non-volatile hardware memory	128 Kbytes
Program memory	16 MB
Data memory	64 MB
Non-volatile software memory	128 Kbytes
Type of memory card	SD and SDHC up to 32 GB (all guaranteed properties only valid with WAGO 758-879/000-001 Memory Card)
Memory card slot	Push-push mechanism; Cover lid (sealable)
Number of modules per node (max.)	250
Number of modules without a bus extension (max.)	64
Input and output process image (internal) max.	1000 words/1000 words
Input and output process image (Modbus®) max.	CODESYS V2: 1000 words/1000 words; CODESYS V3: 32000 words /32000 words
Input and output process image (PROFIBUS) max.	244 bytes/244 bytes
Input and output process image (CAN) max.	2000 words/2000 words
Indicators	LED (SYS, RUN, I/O, CAN, BF, DIA, U1 … U4) red/green/orange: Status system, program, internal data bus, CANopen, PROFIBUS, PROFIBUS diagnostics, status programmable by user (can be used via CODESYS library); LED (A, B) green: System power supply status, field supply
Supply voltage (system)	24 VDC (-25 … +30 %); via pluggable connector (CAGE CLAMP®)

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

connection)

Input current (typ.) at nominal load (24 V)	550 mA
Total current (system supply)	1,700 mA
Supply voltage (actuator)	N/A N/A
Supply voltage (field)	24 VDC (-25 … +30 %); via power jumper contacts
Current carrying capacity (power jumper contacts)	10 A
Number of outgoing power jumper contacts	3
Isolation	500 V system/field

Connection data

Connection technology: communication/fieldbus	PROFIBUS: 1 x D-sub 9 socket; CANopen: 1 x D-sub 9 plug; Modbus (TCP, UDP): 2 x RJ-45; Modbus® RTU: 1 x D-sub 9 socket; RS-232 serial interface: 1 x D-sub 9 socket; RS-485 interface: 1 x D-sub 9 socket; Telecontrol protocol IEC 60870-5-101/-103: 1 x D-sub 9 socket; Telecontrol protocol IEC 60870-5-104: 1 x RJ-45; Telecontrol protocol IEC 61850: 1 x RJ-45; Telecontrol protocol DNP3: 1 x RJ-45 or 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 mm² / 28 … 14 AWG
Fine-stranded conductor	0.08 … 2.5 mm² / 28 … 14 AWG
Strip length	8 … 9 mm / 0.31 … 0.35 inches
Connection technology: device configuration	1 x Male connector; 4-pole

Physical data

Width	112 mm / 4.409 inches
Height	100 mm / 3.937 inches
Depth	71.9 mm / 2.831 inches
Depth from upper-edge of DIN-rail	64.7 mm / 2.547 inches

Mechanical Data

Weight	270.8 g
Housing material	Polycarbonate; polyamide 6.6
Conformity marking	CE

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

Environmental requirements

Ambient temperature (operation)	-20 … +60 °C
Ambient temperature (storage)	-40 … +85 °C
Protection type	IP20
Pollution degree	2 per IEC 61131-2
Operating altitude	without temperature derating: 0 … 2000 m; with temperature derating: 2000 … 5000 m (0.5 K/100 m); 5000 m (max.)
Relative humidity (without condensation)	95 %
Relative humidity (with condensation)	Short-term condensation per Class 3K6/IEC EN 60721-3-3 and E-DIN 40046-721-3, accounting for a temperature range of −20 to +60 °C (except for wind-driven precipitation, water and ice formation)
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	2.909 MJ
Permissible H_2S contaminant concentration at a relative humidity 75 %	10 ppm
Permissible SO_2 contaminant concentration at a relative humidity 75 %	25 ppm

Commercial data

eCl@ss 10.0	27-24-26-07
eCl@ss 9.0	27-24-26-07
ETIM 8.0	EC000236
ETIM 7.0	EC000236
PU (SPU)	1 pcs
Packaging type	box
Country of origin	DE
GTIN	4055143765565
Customs tariff number	85371091990

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

Environmental Product Compliance

CAS-No.	1303-86-2
	1314-23-4
	1317-36-8
	693-98-1
	7439-92-1
	79-94-7
REACH Candidate List Substance	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol
	2-methylimidazole
	Diboron trioxide
	Lead
	Lead monoxide
	Perfluorobutane sulfonic acid (PFBS) and its salts
	Zirconium Oxide
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	6(c)
	7(a)
	7(c)-I
	7(c)-II
SCIP notification number (Austria)	7e9ee352-b0a9-4d56-b568-890fa028c56d
SCIP notification number (Belgium)	0985d95d-9070-435d-886a-64da0de088b5
SCIP notification number (Bulgaria)	4ed66e95-f0ee-4e28-9369-0e6b52e89fa0
SCIP notification number (Czech Republic)	36b04c4c-4fb1-4363-8d60-42aeeedd34bb
SCIP notification number (Denmark)	36c0428f-79db-4b6f-a171-7a70b863128d
SCIP notification number (Finland)	45e9e505-47ec-468e-bcf3-9b010f2ee9b7
SCIP notification number (France)	08cc5006-a3ea-4db4-ad08-c3605ed9d7dd
SCIP notification number (Germany)	6d1b2f36-388e-4f50-b703-15ff34680c47
SCIP notification number (Hungary)	ad7065bd-b2b4-4e2b-a5ed-2345c5bd2baf
SCIP notification number (Italy)	d50db58e-226e-4e19-b494-f5993058ba78
SCIP notification number (Netherlands)	c6fe06b0-b88a-43c5-999a-4c54295cdd0f
SCIP notification number (Poland)	e72a1967-096c-4624-b92e-657d6c20a266
SCIP notification number (Romania)	667ac8fd-0122-43fb-9ce1-dc12c3decab0
SCIP notification number (Sweden)	a9b09194-8aae-4c10-9c17-bad61bb76878

Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCC	CNCA-C23-01	2020312310000213
	CNEX		(Ex ec IIC T4 Gc)

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

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	EAC	TP TC 020/2011	EAC RU C-DE.AM02.
	Brjansker Zertifizierungsstelle		B.00087/19

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

	UL	-	E175199
	Underwriters Laboratories Inc. (ORDINARY LOCATIONS)		
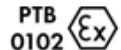
Declarations of conformity and manufacturer's declarations

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

Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name
	ABS	-	22-2227356-PDA
	American Bureau of Shipping		
	BSH	-	1104
	Bundesamt fuer Seeschifffahrt und Hydrographie		
	DNV	DNV-CG-0339,Aug.2021	TAA00001J4
	DNV Germany GmbH		

Approvals for hazardous areas

Logo	Approval	Additional Approval Text	Certificate name
PTB 0102	**ATEX**	EN 60079-0	TUEV_14_ATEX_148929_X (II 3 G Ex ec IIC T4 Gc)
	TUEV Nord Cert GmbH		

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

	CCC CNEX	CNCA-C23-01	2020312310000213 (Ex ec IIC T4 Gc)
	EAC Brjansker Zertifizierungsstelle	TP TC 012/2011	EAC RU C-DE.AM02.B.00163 /19 (2Ex e IIC T4 Gc X)
	IECEx TUEV Nord Cert GmbH	IEC 60079-0	IECEx TUN 14.0035 X (Ex ec IIC T4 Gc)
	INMETRO TÜV Rheinland do Brasil Ltda.	IEC 60079-0	BR-Ex_TÜV 12.1297 X
	UKEx WAGO GmbH & Co. KG	EN 60079-0	UKCA_WAGO22UKEX003X_ec
	UL Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)	UL 121201	E198726 Sec.1

Optional accessories

Carrier rail

Mounting accessories

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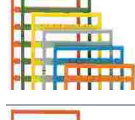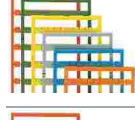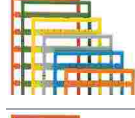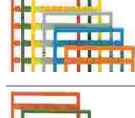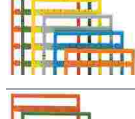
Subject to changes. Please also observe the further product documentation!

	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
	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.: 210-118 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.: 210-112 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.: 210-114 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.: 210-196 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

Marking accessories

Marker carrier

	Item no.: 750-103 Group marker carrier	www.wago.com/750-103

Marker

	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 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.: 2009-145/000-007 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

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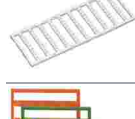|		
	Item no.: 2009-145/000-005 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red	www.wago.com/2009-145 /000-005
	Item no.: 2009-145/000-012 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange	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.: 248-501/000-006 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.: 248-501/000-002 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow	www.wago.com/248-501 /000-002
	Item no.: 248-501/000-012 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; orange	www.wago.com/248-501 /000-012
	Item no.: 248-501 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white	www.wago.com/248-501
	Item no.: 248-501/000-017 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; light green	www.wago.com/248-501 /000-017
	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.: 248-501/000-024 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; violet	www.wago.com/248-501 /000-024

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

	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

Group marker carrier

	Item no.: 750-107 Group marker carrier	www.wago.com/750-107

System housing

System enclosure

	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.: 850-827 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.: 850-826/002-000 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.: 850-828/002-000 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.: 850-828

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

	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.: 850-834 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

Communication

Communication cable

	Item no.: 750-923 Configuration cable; USB connector; Length: 2.5 m	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

Shield termination

Shield clamping saddles

	Item no.: 790-116 Shield clamping saddle; 19 mm wide; diameter of compatible conductor; 7 ... 16 mm	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
	Item no.: 790-108 Shield clamping saddle; 11 mm wide; diameter of compatible conductor; 3 ... 8 mm	www.wago.com/790-108
	Item no.: 790-140 Shield clamping saddle; diameter of compatible conductor	www.wago.com/790-140
	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
	Item no.: 790-208 Shield clamping saddle; 12.4 mm wide; 3 ... 8 mm	www.wago.com/790-208

Memory card

Memory card

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

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

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

Cables and pluggable connectors

Connector plug

Item no.: 750-963
Fieldbus Connector CANopen; with D-sub female connector; 9-pole

www.wago.com/750-963

Item no.: 750-960
Fieldbus Connector PROFIBUS; with D-sub male connector; 9-pole

www.wago.com/750-960

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

www.wago.com/750-975

Item no.: 750-978/000-012
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22; Strain relief

www.wago.com/750-978
/000-012

Item no.: 750-979/000-012
Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 22; Strain relief

www.wago.com/750-979
/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

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

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

Item no.: 750-979/000-011
Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568A; AWG 22; Strain relief

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Item no.: 750-979/000-021
Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568A; AWG 24; Strain relief

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

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Item no.: 750-978/000-011
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22; Strain relief

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/000-011

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| | Item no.: 750-977/000-022 | www.wago.com/750-977 |
| | Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24 | /000-022 |

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

| | Item no.: 750-977/000-021 | www.wago.com/750-977 |
| | Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24 | /000-021 |

Software

Basic version

| | Item no.: 759-333 | www.wago.com/759-333 |
| | WAGO-I/O-PRO | |

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

Software applications

| | Item no.: 2759-120/1121-1000 | www.wago.com/2759-120 |
| | e!COCKPIT MTP; Single License; Online activation | /1121-1000 |

| | Item no.: 2759-208/211-1000 | www.wago.com/2759-208 |
| | Library MTP; Single License; Online activation | /211-1000 |

| | Item no.: 2759-203/211-1000 | www.wago.com/2759-203 |
| | Library Power Plant Control; VDE-AR-N 4110 / 4120; Single License; Online activation | /211-1000 |

| | Item no.: 2759-245/211-1000 | www.wago.com/2759-245 |
| | Library Controller Redundancy Master; Single License; Online activation | /211-1000 |
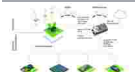
Downloads

Documentation

Manual

| System Manual WAGO I/O System 750/753 | V 3.3.0 | pdf | Download |
| Decentralized Automation Technology | 2023 May 4 | 8.8 MB | |

| Product Manual PFC200 G2 2ETH RS CAN DPS | 1.10.0 | pdf | Download |
| Controller PFC200; 2nd Generation; 2 x ETHERNET, RS-232/-485, CAN, CANopen, PROFIBUS Slave | 2023 Mar 31 | 5.1 MB | |

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Product Manual Configure IEC 61850 with Telecontrol Configurator and e!COCKPIT	V 1.3.0 2022 Sep 14	pdf 6.8 MB	Download
Product Manual Configure IEC 60870 with Telecontrol Configurator and e!COCKPIT	V 1.2.0 2022 Jul 22	pdf 9.0 MB	Download
Product Manual Configure DNP3 with Telecontrol Configurator and e!COCKPIT	V 1.2.0 2022 Jul 22	pdf 7.4 MB	Download
Product Manual OPC UA Mapping Editor	V 1.1.0 2022 Mar 11	pdf 3.4 MB	Download
e!RUNTIME EtherCAT® Master	V 1.1.1 2019 Dec 17	pdf 879.5 kB	Download
Cyber Security for Controller PFC100 / PFC200	V 1.0.0 2019 Oct 31	pdf 4.9 MB	Download
Product Manual WAGO MODBUS Master Configurator for configuration of MODBUS networks in WAGO-I/O-PRO (CODESYS)	V 1.1.0	pdf 1.8 MB	Download
OPC_UA Mapping Editor Online Help HTML		URL	Download
System Manual Series 750/753 Online HTML		URL	Download

Bid Text

750-8216/025-001 X81 - Datei	2019 Feb 19	xml 11.0 kB	Download
750-8216/025-001 docx - Datei	2019 Jan 23	docx 23.1 kB	Download

Instruction Leaflet

CCC Ex (Additional information) WAGO-I/O-SYSTEM *750-****/*	2023 Apr 26	pdf 163.6 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	3.0 2017 Dec 18	mp4 88.3 MB	Download

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#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

Establish connection to a controller using SSH In this video we are demonstrating how to establish a SSH connec-tion with a controller using for example PuTTY to be able to work with the LINUX console. Contents: 0:21 Download and install the SSH client; 0:40 Establish the SSH connection; 0:50 Log on to the Controller	1.0 2017 Aug 5	mp4 29.0 MB	Download
WAGO IEC 61850 solution (Transformer)	1.0 2012 Jun 1	wmv 20.0 MB	Download
Tutorial WAGO IEC 61850 / 61400 solution	1.0 2012 Jun 1	wmv 45.4 MB	Download
WAGO IEC 61400-25 solution (Windmill)	1.0 2012 Jun 1	wmv 20.4 MB	Download

System Description

Controller PFC100/200, General Product Information		pdf 592.5 kB	Download
Overview on WAGO-I/O-SYSTEM 750 approvals		pdf 789.0 kB	Download

Additional Information

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

Application Notes

Application Note CoDeSys 2.3

Application Note Data Plotter The Data Plotter is a Web application that can be used as a visualization tool for the data logger in CODESYS V2.3 and e!COCKPIT. It allows the user to graphically display data captured by the data logger library (WAGO_Datalogger_02.lib for CODESYS V2.3 and WagoAppDatalogger for e!COCKPIT from V1.2.100.6023).	2023-06-01 2023 Jun 1	zip 6.7 MB	Download
Application Note: MpBus_03 Library	2020-08-14 2020 Aug 14	zip 526.0 kB	Download

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

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).

Application Note Library WagoDatalogger_02	2020-05-20	zip	Download
This application note describes the use of the WagoDatalogger_02.lib library. Up to 80 analog or digital signals can be recorded.	2020 May 20	1.3 MB	
Application note Cloud Connectivity	2019-09-17	zip	Download
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 Sep 17	4.1 MB	
Application note for installing a MySQL-Server on a PFC-Controller	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.	2019 May 16	4.5 MB	
Application note: DALI 753-647 Configuration Interface	1.0.2	zip	Download
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.	2019 Apr 29	3.1 MB	
Connection of Thermokon Multi-function room control units WRF 08	10.04.2019	zip	Download
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.	2019 Apr 10	876.4 kB	
Connection of Thermokon Multi-function room control units WRF 06	10.04.2019	zip	Download
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.	2019 Apr 10	845.9 kB	
HART Tool Routing via ETHERNET with 750-820x/750-88x and CODESYS 2.3 (a116120)	1.0.0	pdf	Download
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.	2019 Mar 22	3.9 MB	
HART Tool Routing via PROFIBUS with 750-833 and 750-333 (a116140)	1.0.0	pdf	Download
This application note describes how to set up asset management systems, which facilitate simple, efficient configuration of HART field devices.	2019 Mar 22	5.3 MB	

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Using the Cerabar PMC51 (Endress+Hauser) as an example, connecting any HART sensor to a WAGO PROFIBUS controller and a WAGO PROFIBUS Coupler is explained. The cyclic PROFIBUS Master (750-8208) realizes the data exchange. As an acyclic master, a TH LINK PROFIBUS provides access for the plant asset management applications WAGOframe, PACTware and FieldCare.

HVAC System Macros WAGO provides system macros for HVAC applications that are based on Building_HVAC_03.lib.	10.03.2017 2019 Mar 15	zip 13.6 MB	Download
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.	1.2.4 2019 Feb 26	zip 5.0 MB	Download
Anbindung der HKW-Elektronik Wetterprognose-Station WS-K xx T ModBus Dieser Anwendungshinweis beschreibt, wie die Kommunikation zwischen dem WAGO-I/O-System und einer HKW-Elektronik Wettterprognose-Station Kompakt realisiert werden kann.	1.1 2017 Jul 7	zip 781.1 kB	Download
Application Note: DMX_02 This application note describes how a DMX master for DMX device control can be performed via 750-652 serial interface.	26.04.2017 2017 Apr 26	zip 751.0 kB	Download
GRUNDFOS GENIbus interface, application note 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.	20.03.2017 2017 Mar 20	zip 286.6 kB	Download
Application Note: EnOcean_06 Library 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.	30.11.2016 2016 Nov 30	zip 842.0 kB	Download
Application Note Library ModuleAccess_01 These instructions describe the use of the ModuleAccess_01.lib library using 4 examples.	05.01.2016 2016 Jan 29	zip 1.0 MB	Download
Anwendungshinweis für die Steuerung eines Igus robolink Der Anwendungshinweis beschreibt anhand einer Demoapplikation die Steuerung eines Igus robolink® Roboterarms mit sechs Achsen. Als Steuerung wird ein Wago PFC200 (Art.-Nr. 750-8202) verwendet.	12.11.2015 2015 Nov 12	zip 1.3 MB	Download
HLK-Anlagenmakros für TRIC	2015-07-10	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.	2015 Jul 10	76.8 MB	
Application Note for the 750-494 3-Phase Power Measurement Module 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.	24.01.2014 2014 Nov 11	zip 1.7 MB	Download
Application Note for the 750-495 3-Phase Power Measurement Module 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.	24.01.2014 2014 Jan 24	zip 1.8 MB	Download
Connection of a Thermokon Thanos SR L MODBUS room control unit to the WAGO-I/O-SYSTEM 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.	02.05.2013 2013 May 13	zip 313.2 kB	Download
Connection of DMX devices to the WAGO-I/O-SYSTEM via the ArtNet-DMX STAGE-PROFI 1.1 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.	11.01.2013 2013 Jan 11	zip 1.5 MB	Download
Application Note PowerMeasurement_03 Library 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).	19.01.2011 2012 Mar 19	zip 954.5 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 2011 Oct 28	zip 439.1 kB	Download
Application Note Weather Station Elsner P03 Modbus 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.	01.12.2011 2011 Oct 28	zip 275.6 kB	Download
Application Note Scheduler_03.lib This application note describes different applications of the Scheduler_03.lib library.	20.05.2011 2011 May 20	zip 1.8 MB	Download

Application Note e!COCKPIT

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Application Note Data Plotter	2023-06-01 2023 Jun 1	zip 6.7 MB	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).

SNMP Communication (a500850)	1.1.0 2020 Feb 20	zip 3.8 MB	Download

This application note explains how the WAGO controllers PFC100 andPFC200 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.

eCOCKPIT application note installation MySQL-Server	1.0.3 2019 Sep 9	pdf 1.9 MB	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.

HART Tool Routing via ETHERNET with 750-820x and e!RUNTIME (a116130)	1.0.0 2019 Mar 22	pdf 2.9 MB	Download

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.

Libraries

WAGO Library Power Plant Control

WAGO Library Power Plant Control	2021 Dec 6	ZIP 20.1 MB	Download

The WAGO Power Plant Control Library is an *e!COCKPIT* library with a control algorithm for active and/or reactive power in power plants.

The control algorithm regulates the setpoint values for active and/or reactive power at the grid connection point. It compares these setpoints to the measured actual values at the grid connection point and communicates the calculated control variable to the generation system. This library can be used on second-generation PFC200 Controllers and is certified per VDE-AR-N 4110 or 4120.

The library can be used for a 30-day trial period at no cost, after which a license for the specific controller is required. The license can be separately purchased under Item Number 2759-0203/0211-1000.

WAGOAppRTU_Slaves Library

WAGOAppRTU_Slaves Library	1.9.0.0 2023 Jan 18	ZIP 2.1 MB	Download

Library for the IEC-60870 connection of customer systems in the German electricity network area of the network operators E.ON, Westnetz, EWE and Netz BW; the number and power of the generating plants (EZA) is increasing. In order to ensure network stability, distribution system operators require that customer facilities become controllable and switchable. This means considerable programming effort for corresponding interfaces in the network connection point (NAP). For system integrators who use WAGO telecontrol technology, however, this work is not

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necessary, because with the library WAGOAppRTU_Slaves they can use ready-made communication libraries - as a free download for the network areas of the E.ON and EWE, networks BW and for Westnetz.

Library

WAGO_Datalogger_02.lib	2.7	zip	Download
The FbDatalogger function block logs entries from up to 80 channels at an interval of min. one second in a CSV file.	2020 May 20	678.8 kB	
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.	2020 Jan 27	2.2 MB	
Library WagoLibCloud_02.lib	2.2.4	zip	Download
Die Bibliothek dient zur Kommunikation des WAGO Controller PFC100 und PFC200 mit Cloud Diensten wie Microsoft Azure (WAGO Cloud), Amazon AWS und IBM Bluemix. Daten können zur Cloud gesendet und Kommandos von der Cloud empfangen werden.	2020 Jan 21	57.6 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).	2013 Oct 8	349.1 kB	
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	

Engineering-Software

e!COCKPIT

e!COCKPIT	1.11.2.0	zip	Download
Register at no cost and test our engineering software for 30 days.	2023 Apr 24	4.1 GB	

WAGO Telecontrol Configurator

WAGO Telecontrol Configurator	1.2.31.0	ZIP	Download
The WAGO Telecontrol Configurator is an stand-alone software for easy configuration and commissioning of WAGO controllers for telecontrol technology.	2021 Dec 16	111.2 MB	

Without the help of additional software, this configurator can be used alone to configure communication between WAGO-I/O-SYSTEM controllers and a DNP3 and IEC 60870-5-101/104 control system. Data from digital and analog input modules, as well as the 3-phase power measurement modules can be sent to the control system. The control system can send commands and setpoints to the digital and analog output modules. The telecontrol configurator cannot further process the data in the decentralized controller. WAGO provides the *e!COCKPIT* automation software for programming a decentralized automation task. The telecontrol configurators for DNP3 and IEC 60870-5-101/104 are integrated in the same way in *e!COCKPIT*.

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Configuration and Commissioning Software

(759-316) WAGO Ethernet Settings / Serie 750	06.18.01.01	zip	Download
	2023 Feb 28	27.3 MB	

WAGO-IO-PRO Demo-Version (759-912) / Serie 750, 758 und 762	V 2.3.9.68	zip	Download
Für ein Firmwareupdate können Sie sich jederzeit an den Support wenden.	2022 Feb 17	125.5 MB	

Desktop Application

WAGOupload	URL	Download
WAGOupload is a stand-alone PC software for transferring, backing up and restoring PLC applications on WAGO 750 Series controllers.		

CODESYS V3 with WAGO DSP

CODESYS Development System V3 including WAGO Device Support Package	URL	Download

Have you not yet installed CODESYS Development System V3? Would you like to program WAGO controllers? Then you've come to the right place!

With CODESYS Development System V3, you program according to the IEC 61131-3 standard. The software enables graphical and textual programming. Create visualizations with the integrated visualization editor.

You benefit from several WAGO libraries that support your application.

You can find it in our WAGO Download Center:

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

WAGO DSP for CODESYS V3

WAGO Device Support Package for CODESYS Development System V3	URL	Download

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

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

You can find it in our WAGO Download Center:

- WAGO-Plugins
- WAGO libraries
- Device firmware

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- Device descriptions for WAGO controllers
- …sowie weitere WAGO-Tools und Add-ons

Runtime Software

GitHub: Linux® Toolchain

GitHub: Linux® Software Development Kit (SDK)	URL	Download

With the PFC SDK, WAGO offers Linux® enthusiasts the opportunity to compile the PFC firmware themselves, and to expand it according to their own wishes.

The WAGO PFC SDK 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 WAGO GitHub HowTo's).

Firmware

PFC200, Firmware Update für CoDeSys V3.5	V 23	zip	Download
WAGO_FW0750-821x_V040110_FW23	2023 Feb 24	172.0 MB	
Image Update (SD Karte) PFC100/200	V 22 SP1	zip	Download
WAGO_FW0750-8xxx_V031010_IX22_SP1_I	2022 Dec 12	210.8 MB	
WUP Update (WAGOuploadTool) PFC100/200	V 22 SP1	zip	Download
WAGO_FW0750-8xxx_V031010_IX22_SP1_W	2022 Dec 12	208.5 MB	

IoT/ Cloud

"Remote Access" Beta Software

"Remote Access" Beta Software	V 0.12.0.0	ZIP	Download
Register for the beta version of "Remote Access" for the WAGO Cloud.	2020 Dec 6	2.1 MB	

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CAD/CAE-Data

CAD data

2D/3D Models 750-8216/025-001			URL	Download

CAE data

ZUKEN Portal 750-8216/025-001			URL	Download
EPLAN Data Portal 750-8216/025-001			URL	Download

Device Files

Device Description File

750-910; GSD files for PROFIBUS / 750, 752, 755, 758 and 767 Series	6.8 2023 Jan 15	zip 5.5 MB	Download
750-914; EDS file for CANopen / 750, 752 and 767 Series	XT 2021 Mar 12	zip 1.8 MB	Download

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 750-8216/025-001 Controller PFC200; 2nd Generation; 2 x ETHERNET, RS-232/-485, CAN, CANopen, PROFIBUS Slave; Telecontrol technology; Ext. Temperature			URL	Download

Installation Notes

Product family

Controller 750
Show all products from the family

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