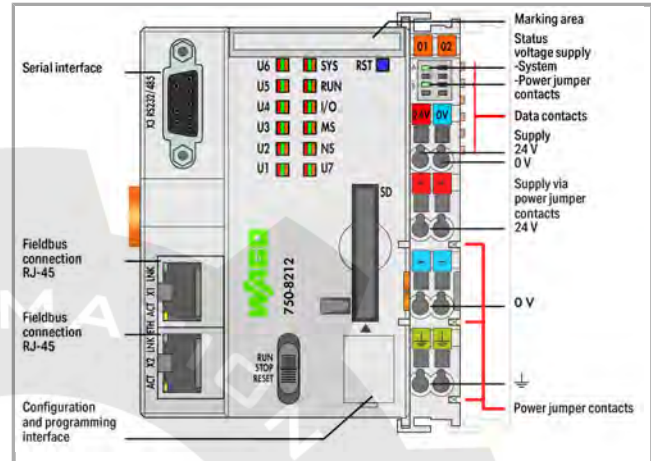


Data sheet | Item number: 750-8212

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



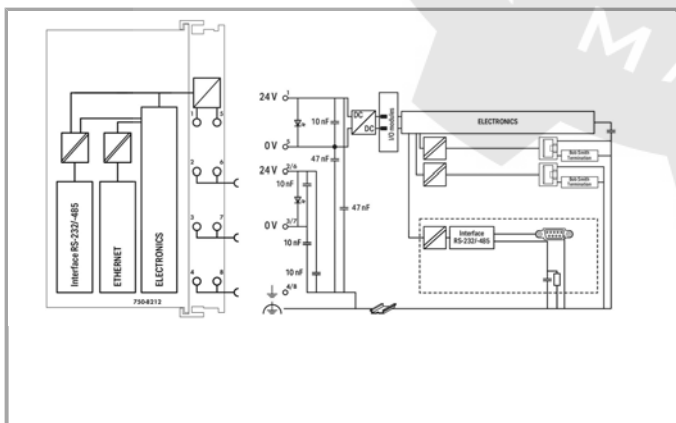
750-8212

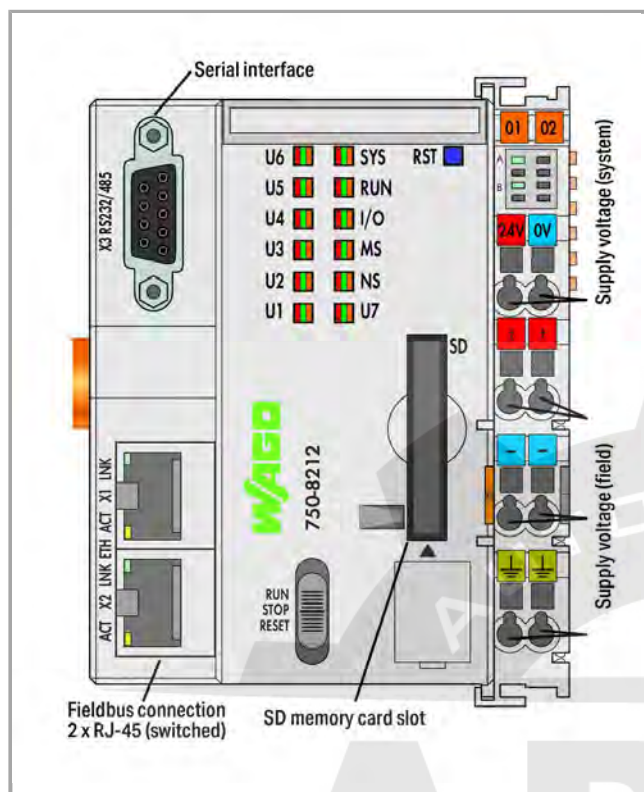


RoHS
Compliant

BOMcheck.net

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.

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 user interface
- Maintenance-free

Data

Technical Data

Communication

Modbus (TCP, UDP)
Ethernet



	Modbus RTU RS-232 serial interface RS-485 interface EtherNet/IP adapter (slave), Library for e!RUNTIME EtherCAT-Master (mit Zusatzlizenz) MQTT
Ethernet protocol	DHCP DNS NTP FTP FTPS SNMP HTTP HTTPS SSH
Visualization	Web-Visu
Operating system	Real-time Linux (with RT-Preempt patch)
CPU	Cortex A8; 1 GHz
Programming languages per IEC 61131-3	Instruction List (IL) Ladder Diagram (LD) Function Block Diagram (FBD), Continuous Function Chart (CFC) Structured Text (ST) Sequential Function Chart (SFC)
Programming environment	e!COCKPIT (based on CODESYS V3) WAGO-I/O-PRO V2.3 (based on CODESYS V2.3)
Configuration options	e!COCKPIT WAGO-I/O-CHECK Web-based management e!RUNTIME library CODESYS Library
Baud rate (communication/fieldbus 1)	10/100 Mbit/s
Baud rate	ETHERNET: 10/100 Mbit/s
Transmission medium (communication/fieldbus)	ETHERNET: Twisted Pair S-UTP; 100 Ω; Cat. 5; Line length (max.): 100 m
Main memory (RAM)	512 MB
Internal memory (flash)	4000 MB
Hardware non-volatile memory	128 Kbytes
Program memory	CODESYS V2: 16 MB; e!RUNTIME: 60 MB (Program and data memory (dynamically distributed))
Data memory	CODESYS V2: 64 MB; e!RUNTIME: 60 MB Program and data memory (dynamically distributed)
Software non-volatile memory	128 Kbytes
Type of memory card	SD and SDHC up to 32 GB (All guaranteed properties are only valid in connection with the WAGO 758-879/000-001 memory card.)
Memory card slot	Push-push mechanism, sealable cover lid
Number of modules per node max.	250
Number of I/O modules without bus extension max.	64



Input and output process image (internal) max.	1000 Worte/1000 Worte
Input and output process image (MODBUS) max.	1000 Worte/1000 Worte
Indicators	LED (SYS, RUN, I/O, U1 U7) red/green/orange: Status system, program, internal data bus, status programmable by user (can be used via CODESYS library); LED (A, B) green: System power supply status, field supply
System supply voltage	DC 24 V (-25 +30 %); via wiring level (CAGE CLAMP® connection)
Input current typ. at rated load (24 V)	550 mA
Total current for system supply	1700 mA
Field supply voltage	DC 24 V (-25 +30 %); via power jumper contacts
Current carrying capacity of the power jumper contacts	10 A
Number of outgoing power jumper contacts	3
Isolation	500 V system/field

Connection data

Connection technology: communication/fieldbus	Modbus TCP/UDP: 2 x RJ-45; Modbus RTU: 1 x D-Sub 9 socket; RS-232 serial interface: 1 x D-Sub 9 socket; RS-485 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 mm² / 28 14 AWG
Fine-stranded conductor	0.08 2.5 mm² / 28 14 AWG
Strip length	8 9 mm / 0.31 0.35 inch
Connection technology: Device configuration	1 x 4-pole male connector

Geometrical Data

Width	78.6 mm / 3.094 inch
Height	71.9 mm / 2.831 inch
Height from upper-edge of DIN-35 rail	64.7 mm / 2.547 inch
Depth	100 mm / 3.937 inch

Mechanical data

Weight	213.688 g
Color	light gray
Housing material	Polycarbonate, polyamide 6.6
Conformity marking	CE

Environmental Requirements

Surrounding air (operating) temperature	0 55 °C
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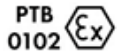
Surrounding air (storage) temperature	-40 85 °C
Protection class	IP20
Degree of pollution (5)	2 per IEC 61131-2
Operating altitude	without temperature derating: 0 2000 m; with temperature derating: 2000 5000 m (0.5 K/100 m); max.: 5000 m
Relative air humidity (no condensation)	95 %
Mounting position	any
Type of mounting	DIN-35 rail
Vibration resistance	4g per IEC 60068-2-6
Shock resistance	15g per IEC 60068-2-27
EMC immunity to interference	acc. to EN 61000-6-2, marine applications
EMC emission of interference	acc. to 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

Country of origin	DE
GTIN	4055143758789
Customs Tariff No.	85371091990

Approvals / Certificates

Ex-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	ATEX TUEV Nord Cert GmbH	IEC 60079-0	IECEx_TUN_14.0035_X
	ATEX TUEV Nord Cert GmbH	EN 60079	TUEV_14_ATEX_148929_X
	UL Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)	ANSI/ISA 12.12.01	E198726 Sec.1

Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	KC	Article 58-2, Clause 3	MSIP-



National Radio Research Agency

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)
	PRS Polski Rejestr Statków	-	TE/2236 /880590/19
	RINA RINA Germany GmbH	-	ELE066419XG

UL-Approvals

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

Compatible products

shield connection

	Item no.: 790-108 Shield clamping saddle; 11 mm wide; diameter of compatible conductor	790-108
	Item no.: 790-116 Shield clamping saddle; 19 mm wide; diameter of compatible conductor; 7 ... 16 mm	790-116
	Item no.: 790-124 Shield clamping saddle; 27 mm wide; diameter of compatible conductor; 6 ... 24 mm	790-124
	Item no.: 790-140 Shield clamping saddle; diameter of compatible conductor	790-140
	Item no.: 790-208 Shield clamping saddle; 12.4 mm wide; 3 ... 8 mm	790-208
	Item no.: 790-216 Shield clamping saddle; 21.8 mm wide; 6 ... 16 mm	790-216
	Item no.: 790-220 Shield clamping saddle; 30 mm wide; 6 ... 20 mm	790-220
software		
	Item no.: 2759-101/1110-2002 e!COCKPIT; Workstation License	2759-101 / 1110-2002
	Item no.: 2759-101/1110-2005 e!COCKPIT; Multi-User License; 05 pcs	2759-101 / 1110-2005
	Item no.: 2759-101/1110-2010 e!COCKPIT; Multi-User License; 10 pcs	2759-101 / 1110-2010
	Item no.: 2759-101/1110-2015 e!COCKPIT; Multi-User License; 15 pcs	2759-101 / 1110-2015
	Item no.: 2759-101/1110-2020 e!COCKPIT; Multi-User License; 20 pcs	2759-101 / 1110-2020
	Item no.: 2759-101/1110-3000 e!COCKPIT; Site License	2759-101 / 1110-3000
	Item no.: 2759-101/1110-4000 e!COCKPIT; Buy-out License	2759-101 / 1110-4000
	Item no.: 2759-247/210-1000 e!RUNTIME; Sparkplug; Single License	2759-247 / 210-1000
	Item no.: 2759-263/210-1000 e!RUNTIME; EtherCAT Master; 300; Single License	2759-263 / 210-1000



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

759-333



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

759-333

/000-923



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

759-911

Marking accessories



Item no.: 2009-145
Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type; white

2009-145



Item no.: 2009-145/000-002
Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type; yellow

2009-145

/000-002



Item no.: 2009-145/000-005
Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type; red

2009-145

/000-005



Item no.: 2009-145/000-006
Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type; blue

2009-145

/000-006



Item no.: 2009-145/000-007
Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type; gray

2009-145

/000-007



Item no.: 2009-145/000-012
Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type; orange

2009-145

/000-012



Item no.: 2009-145/000-023
Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type; green

2009-145

/000-023



Item no.: 2009-145/000-024
Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type; violet

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

248-501



Item no.: 248-501/000-002
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow

248-501

/000-002



Item no.: 248-501/000-005
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white

248-501

/000-005



Item no.: 248-501/000-006
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white

248-501

/000-006

**Item no.: 248-501/000-007**

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

/000-007

248-501

**Item no.: 248-501/000-012**

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

/000-012

248-501

**Item no.: 248-501/000-017**

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

/000-017

248-501

**Item no.: 248-501/000-023**

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

/000-023

248-501

**Item no.: 248-501/000-024**

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

/000-024

248-501

**Item no.: 750-103**

Group marker carrier

750-103

**Item no.: 750-107**

Group marker carrier

750-107

Carrier rail**Item no.: 210-112**

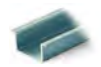
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 25 mm

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

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

210-114

**Item no.: 210-115**

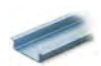
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 18 mm

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

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

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

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

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

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

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	210-506
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	Item no.: 210-508 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715	210-508
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wiring and connectors

	Item no.: 750-975 ETHERNET RJ-45 connector, IP20; ETHERNET 10/100 Mbit/s; for field assembly; light gray	750-975
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	Item no.: 750-977/000-011 Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22	750-977 /000-011
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	Item no.: 750-977/000-012 Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22	750-977 /000-012
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	Item no.: 750-977/000-021 Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24	750-977 /000-021
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	Item no.: 750-977/000-022 Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24	750-977 /000-022
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	Item no.: 750-978/000-011 Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22; Strain relief	750-978 /000-011
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	Item no.: 750-978/000-012 Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22; Strain relief	750-978 /000-012
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	Item no.: 750-978/000-021 Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24; Strain relief	750-978 /000-021
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	Item no.: 750-978/000-022 Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24; Strain relief	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	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	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	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	750-979 /000-022
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system box

	Item no.: 850-804 IP65 enclosure; Stainless steel; WxHxD (400x123x200 mm); 4 x M20, 16 x M16, 28 x M12 cable grip	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	850-804
	Item no.: 850-805 IP65 enclosure; Stainless steel; WxHxD (600x123x200 mm); 4 x M20, 19 x M16, 67 x M12 cable grip	850-805
	Item no.: 850-814/002-000 IP65 enclosure; Sheet steel (RAL 7035); WxHxD (200x120x200 mm); without flange plate	850-814
	Item no.: 850-815/002-000 IP65 enclosure; Sheet steel (RAL 7035); WxHxD (300x120x200 mm); without flange plate	850-815
	Item no.: 850-816/002-000 IP65 enclosure; Sheet steel (RAL 7035); WxHxD (400x120x200 mm); without flange plate	850-816
	Item no.: 850-817/002-000 IP65 enclosure; Sheet steel (RAL 7035); WxHxD (600x120x200 mm); without flange plate	850-817
	Item no.: 850-825 IP65 enclosure; Aluminium (RAL 7032); WxHxD (160x100x160 mm); 9 x M12, 4 x M20	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	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	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	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	850-827
	Item no.: 850-828 IP65 enclosure; Aluminium (RAL 7032); WxHxD (480x100x160 mm); 4 x M20, 10 x M16, 35 x M12 cable grip	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	850-828
	Item no.: 850-834 IP65 enclosure; Polyester (RAL 7032); WxHxD (164x100x164 mm); 9 x M12, 4 x M20	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	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

850-836

General accessories



Item no.: 750-921
Bluetooth® Adapter; light gray

750-921



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

750-923



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

750-923

/000-001

memory card



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

758-879

/000-001

Downloads

Documentation

Manual

PFC200 G2 2ETH RS 2 x ETHERNET, RS-232 / RS-485	V 1.2.0 Jul 25, 2019	pdf 5.0 MB	Download
WAGO MODBUS Master Configurator for configuration of MODBUS networks in WAGO-I/O-PRO (CODESYS)	V 1.1.0	pdf 1.8 MB	Download
Cyber Security for Controller PFC100 / PFC200	V 1.2.0	pdf 8.3 MB	Download
e!RUNTIME EtherCAT® Master	V 1.1.1 Jul 23, 2019	pdf 879.5 kB	Download
e!COCKPIT Application Note WAGO Gateway Application 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.	V 1.0.0.0 Apr 25, 2019	pdf 8.7 MB	Download

Bid Text

750-8212		docx 22.4 kB	Download
Tutorial			
Set IP address with Ethernet Settings In this video we are demonstrating how you can set a IP address with Ethernet Settings. Content: 00:27 – Chapter #1 Download and install software; 00:56 – Chapter #2 Open Ethernet Settings; 01:10 – Chapter #3 Establish serial Connection; 01:34 – Chapter #4 Set IP address; 02:10 – Chapter #5 Check IP address	3.0 Dec 18, 2017	mp4 88.3 MB	Download
Establish connection to a controller using SSH In this video we are demonstrating how to establish a SSH connection with a controller using for example PuTTY to be able to work with the LINUX console. Contents: 0:21 Download and install the SSH client; 0:40 Establish the SSH connection; 0:50 Log on to the Controller	1.0 Aug 5, 2017	mp4 29.0 MB	Download
Additional Information			
Disposal; Electrical and electronic equipment, Packaging	V 1.0.0	pdf 265.8 kB	Download
e!RUNTIME EtherCAT® Master	V 1.1.1 Jul 23, 2019	pdf 879.5 kB	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
Application Notes			
Application Note CoDeSys 2.3			
WagoConfigToolLIB The library WagoConfigToolLIB.lib library provides function blocks for accessing the device configuration (e.g., network settings, data and time, ongoing services).	1.0.0	pdf 349.1 kB	Download
ModuleAccess_01.lib The ModuleAccess_01 library provides both module configuration and access to its process data within a CoDeSys project without the use of WAGO I/O Check.	1.7 Jan 18, 2018	zip 1.5 MB	Download
Connection of Thermokon Multi-function room control units WRF 08	Apr 10, 2019	zip 876.4 kB	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.

Application Note Connecting with an iPod Touch	30.03.2011	zip	Download
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.	Oct 28, 2011	439.1 kB	

Application Note Library WagoDatalogger_02	10.03.2016	zip	Download
This application note describes the use of the WagoDatalogger_02.lib library. Up to 80 analog or digital signals can be recorded.	Apr 4, 2016	1.3 MB	

Connection of Thermokon Multi-function room control units WRF 06	Apr 8, 2016	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.		845.9 kB	

HLK-Anlagenmakros für TRIC	Jul 10, 2015	zip	Download
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
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.	Nov 11, 2014	1.7 MB	

Application Note: DMX_02	26.04.2017	zip	Download
This application note describes how a DMX master for DMX device control can be performed via 750-652 serial interface.	Apr 26, 2017	751.0 kB	

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.	Jan 24, 2014	1.8 MB	

e!COCKPIT application note WagoLibCloud	2019-07-17	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.	Jul 17, 2019	4.0 MB	

HVAC System Macros	10.03.2017	zip	Download
WAGO provides system macros for HVAC applications that are based on Building_HVAC_03.lib.	Mar 15, 2019	13.6 MB	

Application note Cloud Connectivity



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.	2019-07-17 Jul 17, 2019	zip 4.1 MB	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 Nov 30, 2016	zip 842.0 kB	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 Wetterprognose-Station Kompakt realisiert werden kann.	V 1.1 Jul 7, 2017	zip 781.1 kB	Download
Application Note Data Plotter 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).	V 2019-07-04 Jul 5, 2019	zip 7.4 MB	Download
HART Tool Routing via ETHERNET with 750-820x/750-88x and CODESYS 2.3 (a116120) 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 Mar 22, 2019	pdf 3.9 MB	Download
Application Note Scheduler_03.lib This application note describes different applications of the Scheduler_03.lib library.	May 20, 2011	zip 1.8 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 Nov 12, 2015	zip 1.3 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 May 13, 2013	zip 313.2 kB	Download
Erreichen der Linuxkonsole des PFC200 (a100701) 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.	V1.0.0 Aug 29, 2016	zip 521.3 kB	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 Mar 19, 2012	zip 954.5 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 Oct 28, 2011	zip 275.6 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 Mar 20, 2017	zip 286.6 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 Jan 11, 2013	zip 1.5 MB	Download
Application Note: MpBus_03 Library 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).	V 1.0.2 Apr 13, 2018	zip 1.4 MB	Download
Application Note Library ModuleAccess_01 These instructions describe the use of the ModuleAccess_01.lib library using 4 examples.	Jan 29, 2016	zip 1.0 MB	Download
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 May 16, 2019	zip 4.5 MB	Download
Application Note e!COCKPIT			
e!COCKPIT application note WagoLibCloud 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.	2019-07-17 Jul 17, 2019	zip 4.0 MB	Download
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 Aug 19, 2019	zip 4.0 MB	Download
HART Tool Routing via ETHERNET with 750-820x and e!RUNTIME (a116130)	1.0.0 Mar 22, 2019	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.

eCOCKPIT application note installation MySQL-Server	2019-07-10	pdf	Download
This Application Note explains how a MySQL-Server can be set up and used on a PFC 200. The Application shows how measurement values of the 3-Phase Power Measurement Module can be written into a database.	Jul 10, 2019	1.9 MB	

Libraries

Library

WagoLibLed	1.0.0	pdf	Download
This library contains function blocks that can be used for control and querying of the user LEDs and for querying of the status LEDs. Depending on the device design, not all of the user or status LEDs may be provided.		516.5 kB	
WagoConfigToolLIB	1.0.0	pdf	Download
The library WagoConfigToolLIB.lib library provides function blocks for accessing the device configuration (e.g., network settings, data and time, ongoing services).		349.1 kB	
WagoLibDiagnosticIDs	1.0.0	pdf	Download
This library is used to take part in an internal diagnostics protocol via an IEC-61131 application. You can define your own IDs and provide your own texts for this. You can also transmit your own diagnostics IDs. Diagnostics generated in this manner are saved in the system log and displayed in text form, for example, in the WBM.		298.2 kB	
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.		1.1 MB	
WagoLibCpuUsage	1.0.0	pdf	Download
This library enables you to determine the CPU load (usage).		265.7 kB	
ModuleAccess_01.lib	1.7	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.	Jan 18, 2018	1.5 MB	
WAGO_Datalogger_02.lib	2.4	zip	Download
The FbDatalogger function block logs entries from up to 80 channels at an interval of min. one second in a CSV file.	Nov 13, 2017	678.0 kB	
Library WagoLibCloud_02.lib	V2.2.3	zip	Download
	Apr 29, 2019	57.1 kB	



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.

Engineering-Software

e!COCKPIT

<i>e!COCKPIT</i>	V 1.5.1 Jul 10, 2019	ZIP 2.8 GB	Download
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Register at no cost and test our engineering software for 30 days.

Configuration and Commissioning Software

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

Linux® Toolchain

Linux® Board Support Package (BSP)	2018.2.8.FW(11)35 Aug 27, 2018	TXT 14.1 kB	Download
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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.

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	13 Jul 11, 2019	zip 83.4 MB	Download
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IoT/ Cloud

Cloud Connectivity

Cloud Connectivity beta version	Jun 4, 2019	ZIP 8.7 MB	Download
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Since January 2018, cloud connectivity has been a component of Firmware 11. Thus, all WAGO PFCs are inherently IoT-ready, so they can send data from the field level to the cloud via MQTT. Here, the data can be aggregated and used for analysis. New features are provided as beta versions. Register here at no cost to test the latest beta functions.

"Remote Access" Beta Software

"Remote Access" Beta Software	V 0.9.0.2	ZIP	Download
Register for the beta version of "Remote Access" for the WAGO Cloud.	Jul 25, 2019	1.3 MB	

CAD/CAE - Smart Data

CAD data

3D Download 750-8212	URL	Download
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Product family

Controller 750

Show all products from the family

Subject to changes.