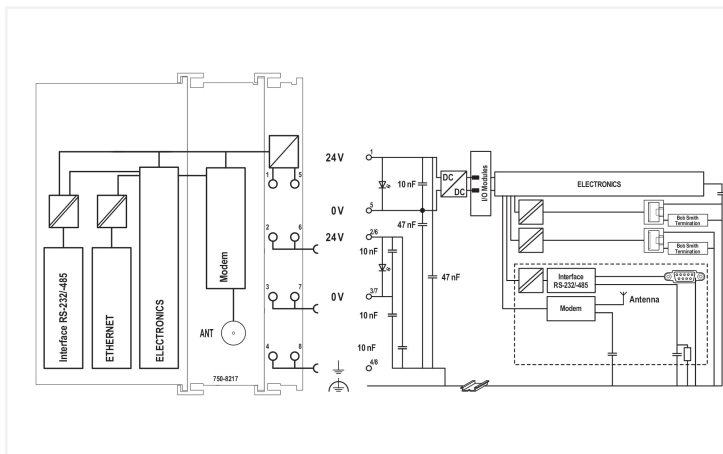


Data Sheet | Item Number: 750-8217

Controller PFC200; 2nd Generation; 2 x ETHERNET, RS-232/-485, Mobile Radio Module 4G; EU version



<https://www.wago.com/750-8217>

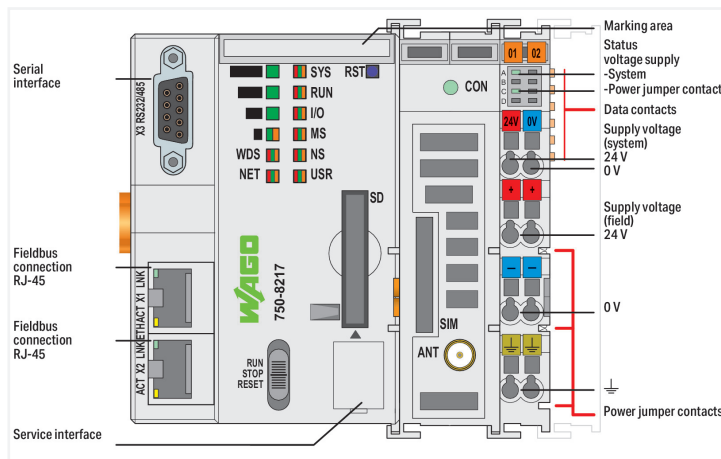


PFC200 Communication Options Overview

Order	Controller	Interface	Protocol	Product description	Item No.	Ext. Temp.
001	Controller PFC200 2nd Generation 4 x ETHERNET	4 x ETHERNET	RS-232	Controller PFC200 2nd Generation 4 x ETHERNET RS-232	750-8215	750-8216/825-000
002	Controller PFC200 2nd Generation 4 x ETHERNET	4 x ETHERNET	RS-485	Controller PFC200 2nd Generation 4 x ETHERNET RS-485	750-8216	750-8216/825-000
003	Controller PFC200 2nd Generation 4 x ETHERNET	4 x ETHERNET	RS-232/485	Controller PFC200 2nd Generation 4 x ETHERNET RS-232/485	750-8217	750-8216/825-000
004	Controller PFC200 2nd Generation 4 x ETHERNET	4 x ETHERNET	RS-232/485	Controller PFC200 2nd Generation 4 x ETHERNET RS-232/485 with Modem	750-8218	750-8216/825-000
005	Controller PFC200 2nd Generation 4 x ETHERNET	4 x ETHERNET	RS-232/485	Controller PFC200 2nd Generation 4 x ETHERNET RS-232/485 with Modem and Antenna	750-8219	750-8216/825-000
006	Controller PFC200 2nd Generation 4 x ETHERNET	4 x ETHERNET	RS-232/485	Controller PFC200 2nd Generation 4 x ETHERNET RS-232/485 with Modem and Antenna (EU version)	750-8220	750-8216/825-000
007	Controller PFC200 2nd Generation 4 x ETHERNET	4 x ETHERNET	RS-232/485	Controller PFC200 2nd Generation 4 x ETHERNET RS-232/485 with Modem and Antenna (UK version)	750-8221	750-8216/825-000
008	Controller PFC200 2nd Generation 4 x ETHERNET	4 x ETHERNET	RS-232/485	Controller PFC200 2nd Generation 4 x ETHERNET RS-232/485 with Modem and Antenna (USA version)	750-8222	750-8216/825-000
009	Controller PFC200 2nd Generation 4 x ETHERNET	4 x ETHERNET	RS-232/485	Controller PFC200 2nd Generation 4 x ETHERNET RS-232/485 with Modem and Antenna (Canada version)	750-8223	750-8216/825-000
010	Controller PFC200 2nd Generation 4 x ETHERNET	4 x ETHERNET	RS-232/485	Controller PFC200 2nd Generation 4 x ETHERNET RS-232/485 with Modem and Antenna (Egypt version)	750-8224	750-8216/825-000
011	Controller PFC200 2nd Generation 4 x ETHERNET	4 x ETHERNET	RS-232/485	Controller PFC200 2nd Generation 4 x ETHERNET RS-232/485 with Modem and Antenna (Turkey version)	750-8225	750-8216/825-000
012	Controller PFC200 2nd Generation 4 x ETHERNET	4 x ETHERNET	RS-232/485	Controller PFC200 2nd Generation 4 x ETHERNET RS-232/485 with Modem and Antenna (EU version) with Power Jumper	750-8226	750-8216/825-000
013	Controller PFC200 2nd Generation 4 x ETHERNET	4 x ETHERNET	RS-232/485	Controller PFC200 2nd Generation 4 x ETHERNET RS-232/485 with Modem and Antenna (EU version) with Power Jumper (UK version)	750-8227	750-8216/825-000
014	Controller PFC200 2nd Generation 4 x ETHERNET	4 x ETHERNET	RS-232/485	Controller PFC200 2nd Generation 4 x ETHERNET RS-232/485 with Modem and Antenna (EU version) with Power Jumper (USA version)	750-8228	750-8216/825-000
015	Controller PFC200 2nd Generation 4 x ETHERNET	4 x ETHERNET	RS-232/485	Controller PFC200 2nd Generation 4 x ETHERNET RS-232/485 with Modem and Antenna (EU version) with Power Jumper (Canada version)	750-8229	750-8216/825-000
016	Controller PFC200 2nd Generation 4 x ETHERNET	4 x ETHERNET	RS-232/485	Controller PFC200 2nd Generation 4 x ETHERNET RS-232/485 with Modem and Antenna (EU version) with Power Jumper (Egypt version)	750-8230	750-8216/825-000
017	Controller PFC200 2nd Generation 4 x ETHERNET	4 x ETHERNET	RS-232/485	Controller PFC200 2nd Generation 4 x ETHERNET RS-232/485 with Modem and Antenna (EU version) with Power Jumper (Turkey version)	750-8231	750-8216/825-000

Länder/ Country	EU Variant 750-8217	EU Variant Ext. Temp 750-8217/025-000	Global Variant 750-8217/600-000	Global Variant Ext. Temp. 750-8217/625-000
EU ¹	X	X	X	X
Canada			X	X
Egypt				X
Turkey				X
UK	X	X	X	X
USA			X	X

¹ EFTA countries (Iceland, Liechtenstein, Norway and Switzerland) accept CE approvals



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 I/O modules found within the 750/753 Series.

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

The integrated cellular modem provides a wireless connection to the Internet and includes a radio license for EU countries. Other countries upon request.

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

Besides standard machinery and equipment control, as well as building automation, typical applications for the PFC200 include decentralized data logging for the process industry.

Advantages:

- Programming per IEC 61131-3
- Programmable via **e!COCKPIT**
- Direct connection of WAGO's I/O modules
- 2 x ETHERNET (configurable), RS-232/485
- Linux operating system with RT-Preempt patch
- Configuration via **e!COCKPIT** or Web-Based Management interface
- Maintenance-free

Notes

Note	Country approvals: All EU countries (approvals for other countries upon request)
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Technical data

Communication	Modbus (TCP, UDP) ETHERNET EtherNet/IP™ Adapter (slave), library for e!RUNTIME Modbus® RTU RS-232 serial interface RS-485 interface MQTT BACnet/IP, requires an additional license EtherCAT® master (requires an additional license) Telecontrol protocols (requires an additional license on the device)
ETHERNET protocols	DHCP DNS NTP FTP FTPS SNMP HTTP HTTPS SSH
Telecontrol protocols	IEC 60870-5-101/-103/-104 (additional license as slave or master) IEC-61850 (additional license as Client 300) DNP3 (additional license as Slave or Master 300)
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)
Configuration options	e!COCKPIT WAGO-I/O-CHECK Web-Based Management e!RUNTIME library CODESYS Library
Security encryption	OpenVPN, IPsec, firewall
Services	SMS (bidirectional) GPRS connection to Internet
Radio technology	GSM/UMTS/LTE
Frequency band	GSM dual band (B3; B8); E-UTRA bands (B1; B3; B5; B7; B8; B20; B38; B40; B41)
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 KB
Program memory	32 MB
Data memory	128 MB
Non-volatile software memory	128 KB
Type of memory card	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)
SIM card type	Mini-SIM; Temperature range: -20 ... +85 °C
SIM card slot	Push-push mechanism
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.	e!RUNTIME : 32000 words/32000 words

Technical data

Indicators	LED (SYS, RUN, I/O, MS, NS, USR, S1 ... S4, WDS, NET) red/green/orange: system status, program, local data bus, status programmable by user (can be used via CODESYS library), signal strength S1 ... S4, data service status; LED (CON, A, B) green: mobile network status, system power supply status, field supply status
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)	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 interface: 1 x D-sub 9 socket
Connection technology: system supply	2 x CAGE CLAMP [®]
Connection technology: field supply	6 x CAGE CLAMP [®]
Connection type 1	System/field supply
Solid conductor	0.08 ... 2.5 mm ² / 28 ... 14 AWG
Fine-stranded conductor	0.08 ... 2.5 mm ² / 28 ... 14 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 inches
Connection technology: antenna	1 x SMA socket
Connection technology: device configuration	1 x Male connector; 4-pole

Physical data

Width	102.5 mm / 4.035 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	301.7 g
Housing material	Polycarbonate; polyamide 6.6
Conformity marking	CE

Environmental requirements

Ambient 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	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	3.798 MJ
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

Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
EAC Brjansker Zertifizierungs- stelle	TP TC 020/2011	EAC RU C-DE.AM02. B.00087/19

Approvals for marine applications



Approval	Standard	Certificate Name
BSH Bundesamt fuer See- schifffahrt und Hydrogra- phie	-	1104
BV Bureau Veritas S.A.	Rules for class. of Steel Ships	66711/A0
DNV DNV Germany GmbH	DNV-CG-0339, Aug. 2021	TAA0000194
KR Korean Register of Ship- ping	-	KR HMB05880-AC001

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

Current addresses can be found at: www.wago.com



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