Data Sheet | Item Number: 750-8217/625-000

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

dule 4G; Global version; Ext. Temperature

https://www.wago.com/750-8217/625-000



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 enables a wireless connection to the Internet and includes a modem that can be used globally for engineering applications. The device includes a radio approval for EU countries and the countries listed in the eShop (other countries upon request). 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

Technical data	
Communication	Modbus (TCP, UDP) ETHERNET EtherNet/IPTM Adapter (slave), library for <i>e!RUNTIME</i> 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
ETHERNET protocols	DHCP DNS NTP FTP FTPS SNMP HTTP HTTPS SSH
Telecontrol protocols	IEC 60870 (additional license as slave or master) IEC 61850 (additional license as Client or Server) DNP3 (additional license as Slave or Master)
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	GPRS connection to Internet
Radio technology	GSM/Edge/UMTS/HSPA+ LTE

Data Sheet | Item Number: 750-8217/625-000 https://www.wago.com/750-8217/625-000



Technical data	
Frequency band	GSM: B2/B3/B5/B8; WCDMA: B1/B2/B4/B5/B6/B8/B19; LTE-FDD: B1/B2/B3/B4/B5/B7/ B8/B12/B13/B18/ B19/B20/B25/B26/B28; LTE-TDD: B38/B39/B40/B41
Baud rate (communication/fieldbus 1)	10/100 Mbit/s
Baud rate	10/100 Mbit/s
Transmission medium (communication/fieldbus)	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's 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.	CODESYS V3: 32000 words/32000 words
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, SELV/PELV (-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, SELV/PELV (-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): $2 \times RJ-45$; Modbus RTU: $1 \times D$ -sub 9 socket; RS-232 serial interface: $1 \times D$ -sub 9 socket; RS-485 interface: $1 \times D$ -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	89 mm / 0.31 0.35 inches
Connection technology: antenna	1 x SMA socket
Connection technology: device configuration	1 x Male connector; 4-pole

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

Data Sheet | Item Number: 750-8217/625-000

https://www.wago.com/750-8217/625-000



Environmental requirements	
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	3.904 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
UL Underwriters Laboratories Inc. (ORDINARY LOCATI- ONS)	UL 61010-2-201	E175199

Declarations of conformity and manufacturer's declarations

_		
Approval	Standard	Certificate Name
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
SDoC for FCC WAGO GmbH & Co. KG	-	-
UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-

Approvals for marine applications





Approval	Standard	Certificate Name
DNV DNV Germany GmbH	DNV-CG-0339,Aug.2021	TAA00001J4
PRS Polski Reiestr Statków	-	TE/1102/880590/23

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$

Page 3/3 Version 23.02.2024