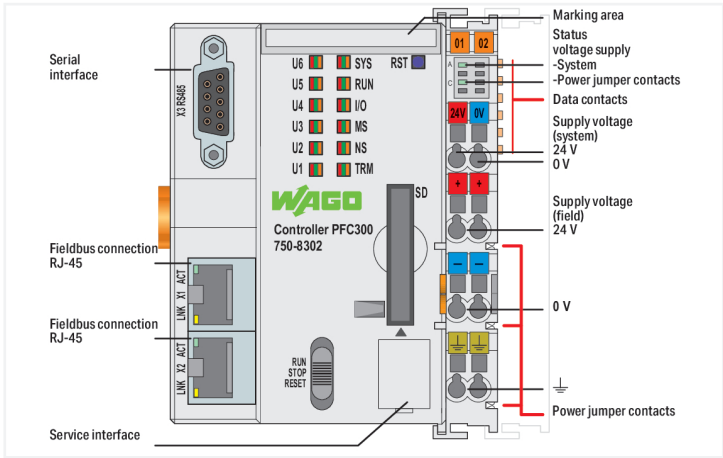
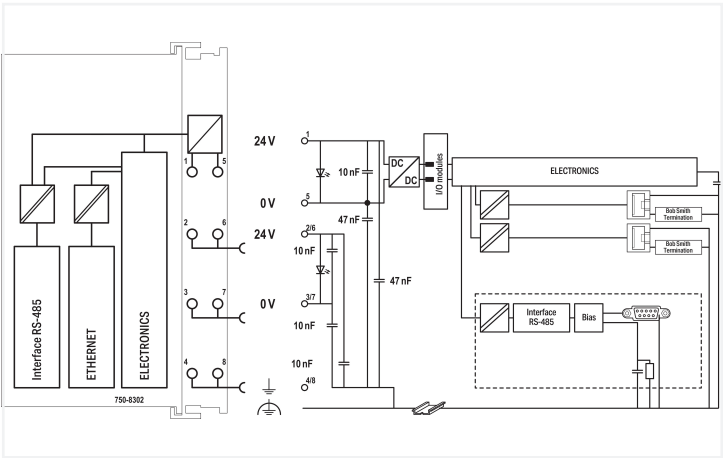




The PFC300 Controller is a compact PLC for the modular WAGO I/O System. Besides network and fieldbus interfaces, the controller supports all digital, analog and specialty modules found within the 750/753 Series.

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

An integrated Webserver provides user configuration options, while displaying PFC300 status information.

Besides the processing industry and building automation, typical applications for the PFC300 include standard machinery and equipment control (e.g., packaging, bottling and manufacturing systems, as well as textile, metal and wood processing machines).

- Advantages:
- Programmable per IEC 61131-3
 - Programmable via CODESYS V3.5
 - Direct connection of WAGO I/O Modules
 - 2 x ETHERNET (configurable), RS-485
 - Linux operating system with RT-Preempt patch
 - Configuration via CODESYS or Web-Based Management user interface
 - Maintenance-free

Technical data	
Communications	ETHERNET RS-485 interface MQTT Telecontrol protocols, requires an additional license Fieldbuses integrated into CODESYS: Modbus TCP master/slave Modbus (UDP), WagoAppPlcModbus Library Modbus (RTU), WagoAppPlcModbus Library EtherNet/IP™ Adapter (slave) EtherNet/IP™ Scanner EtherCAT® Master PROFINET Controller (limited) OPC UA Server/Client OPC UA Pub/Sub (can be installed later)



Technical data	
ETHERNET protocols	DHCP DNS NTP SFTP 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 PREEMPT_RT patch)
CPU	Dual Core Cortex A53 1.25 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	CODESYS V3.5 Includes the following CODESYS features: MULTICORE, WebVisu, License for IIoT Libraries, License for OPC UA PUB/SUB
Configuration options	CODESYS V3 WAGO-I/O-CHECK Web-Based Management CODESYS Library
Transmission rate	100/1000 Mbit/s
Transmission medium (communication/fieldbus)	Twisted pair S-UTP; 100 Ω; Cat. 5e; 100 m maximum cable length
Main memory (RAM)	2 GB, LPDDR4 RAM
Internal memory (flash)	32 GB, eMMC Flash
Non-volatile hardware memory	128 KB
Program memory	32 MB
Data memory	512 MB
Non-volatile software memory	128 KB
Type of memory card	SD, SDHC and SDXC (all guaranteed properties only valid with the WAGO memory card)
Memory Card Slot	Push-push mechanism; cover lid (sealable)
Number of modules per node (max.)	250
Number of modules without a bus extension (max.)	64
Input and output 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, U1 ... U7) red/green/orange: Status of system, program, local data bus, status programmable by user (can be used via CODESYS library); LED (A, B) green: Status of system power supply, field supply
Supply voltage (system)	24 VDC (-25 ... +30 %); via pluggable connector (CAGE CLAMP® connection)
Input current (typ.) at nominal load (24 V)	550 mA
Total current (system supply)	1700 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 VDC system/field



Connection data	
Connection technology: communication/fieldbus	Modbus (TCP, UDP): 2 x RJ-45; Modbus RTU: 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®
Connectable conductor materials	Copper
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 USB-C 2.0

Physical data	
Width	78.6 mm / 3.094 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	
Mounting type	DIN-35 rail

Material data	
Housing material	Polycarbonate; polyamide 6.6
Fire load	2.523 MJ
Weight	207.7 g
Conformity marking	CE

Environmental requirements	
Ambient temperature (operation)	-25 ... +60 °C
Ambient temperature (storage)	-25 ... +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.)
Mounting position	Horizontal left, horizontal right, horizontal top, horizontal bottom, vertical top and vertical bottom
Relative humidity (without condensation)	95 %
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 in preparation
EMC emission of interference	per EN 61000-6-3, marine applications in preparation
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		
PU (SPU)	1 pcs	
Packaging type	Box	
Country of origin	DE	
GTIN	4066966650594	
Customs tariff number	85371091990	

Product classification		
UNSPSC	32151705	

Environmental Product Compliance		
RoHS Compliance Status	Compliant,No Exemption	

Approvals / Certificates

General approvals			Declarations of conformity and manufacturer's declarations		
 					
Approval	Standard	Certificate Name	Approval	Standard	Certificate Name
KC National Radio Research Agency	Article 58-2, Clause 3	MSIP-REM-W43-PFC750	EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
UL Underwriters Laboratories Inc. (ORDINARY LOCATI- ONS)	-	E175199	UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-

Approvals for hazardous areas

  		
Approval	Standard	Certificate Name
ATEX TUEV Nord Cert GmbH	EN 60079-0	TUEV14ATEX148929X (II 3 G Ex ec IIC T4 Gc)
IECEx TUEV Nord Cert GmbH	IEC 60079-0	IECEx TUN 14.0035 X (Ex ec IIC T4 Gc)

Downloads

Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 750-8302	



Documentation

Manual			
Function Manual for PFC100 2nd Generation, PFC200 2nd Generation and PFC300	3621366155 2 en-US 2024-12-16 12:45 16.12.2024	pdf 4012.25 KB	
Controller PFC300; 2 x ETHERNET, RS-485	3130953995 3 en-US 2024-12-16 12:40 16.12.2024	pdf 4126.21 KB	

Engineering-Software

Configuration and Commissioning Software			
CODESYS V3.5		png 315.13 KB	