Data Sheet | Item Number: 750-8302 Controller PFC300; 2 x ETHERNET, RS-485

https://www.wago.com/750-8302







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	Modbus (UDP), WagoAppPlcModbus Library Modbus (RTU), WagoAppPlcModbus Library EtherNet/IP™ Adapter (slave) EtherNet/IP™ Scanner EtherCAT® Master PROFINET Controller (limited) ETHERNET RS-485 interface MQTT Fieldbuses integrated into CODESYS: Modbus TCP master/slave OPC UA Server/Client OPC UA Pub/Sub (can be installed later)
ETHERNET protocols	DHCP DNS NTP SFTP FTP FTPS SNMP HTTP HTTPS SSH
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)

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Technical data		
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 Library CODESYS V3 WAGO-I/O-CHECK Web-Based Management	
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): $2 \times RJ-45$; Modbus RTU: $1 \times D$ -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®
Connectable conductor materials	Copper
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	89 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

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Mechanical data	
Weight	207.7 g
Housing material	Polycarbonate; polyamide 6.6
Conformity marking	CF

Environmental requirements	
Ambient temperature (operation)	-25 +60 °C
Ambient temperature (storage)	-25 +85 ℃
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 %
Mounting position	Horizontal left, horizontal right, horizontal top, horizontal bottom, vertical top and vertical bottom
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 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
Fire load	2.523 MJ
Permissible ${\rm H_2S}$ contaminant concentration at a relative humidity 75 %	10 ppm
Permissible SO_2 contaminant concentration at a relative humidity 75 %	25 ppm

Commercial data		
PU (SPU)	1 pcs	
Packaging type	Box	
Country of origin	DE	
GTIN	4066966650594	
Customs tariff number	85371091990	

Environmental Product Compliance	
RoHS Compliance Status	Compliant,No Exemption

Approvals / Certificates

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

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

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

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