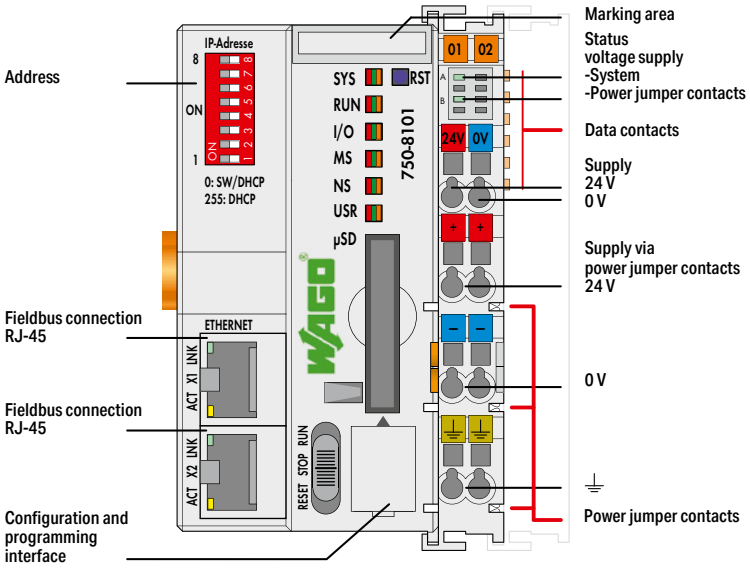
Controller PFC100; 2 x ETHERNET





The PFC100 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 PFC100 status information.
In addition to the processing industry and building automation, typical applications for the PFC100 include standard machinery and equipment control (e.g., packaging, bottling and manufacturing systems, as well as textile, metal and wood processing machines).

Advantages:

- Programming per IEC 61131-3
- Programmable via *e!COCKPIT*
- Direct connection of WAGO I/O modules
- 2 x ETHERNET (configurable)
- Linux® 3.18 operating system with RT-Preempt patch
- Configuration via *e!COCKPIT* or Web-Based Management user interface
- Maintenance-free

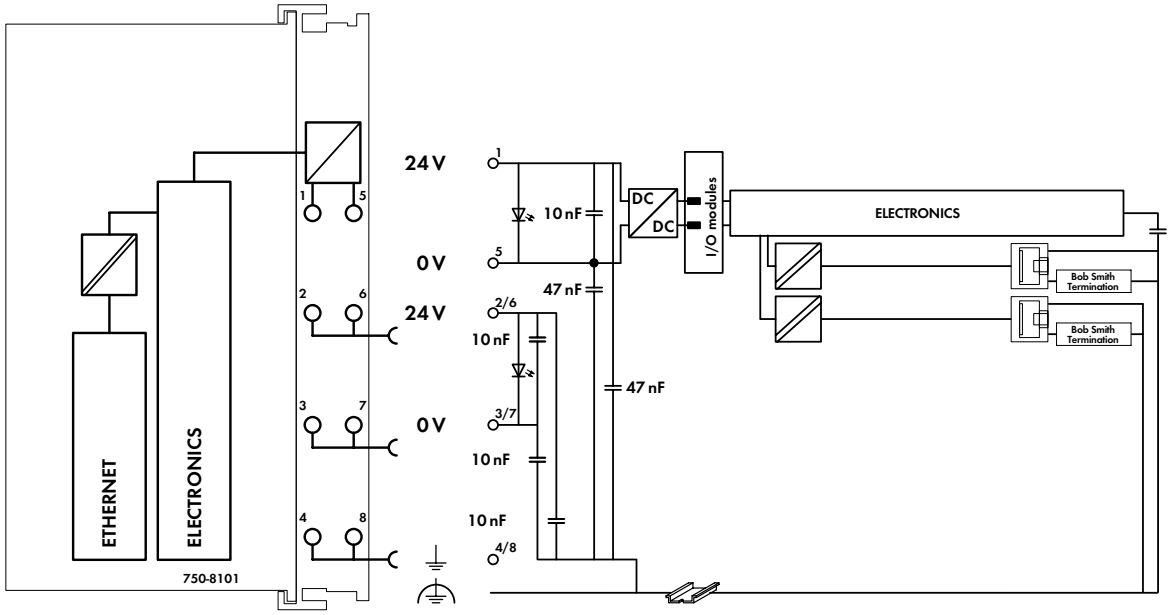
Description	Item No.	Pack. Unit
PFC100 CS 2ETH	**750-8101**	1
PFC100 CS 2ETH T	**750-8101/025-000**	1
Surrounding air temperature (operation): −20 … +60 °C		

Accessories	Item No.	Pack. Unit
microSD memory card, 2 Gbyte	**758-879/000-3102**	1
Mini-WSB Quick Marking System, plain	**248-501**	50

Approvals	
Conformity marking	CE
Marine applications	DNV GL
E175199 Ordinary Locations	
TÜV 14 ATEX 148929 X	II 3G Ex ec IIC T4 Gc
IECEx TUN 14.0035 X	Ex ec IIC T4 Gc
UL E198726 Hazardous Locations	Cl I, Div 2, Group A, B, C, D, T4

Technical Data	
Communication	Modbus (TCP, UDP); EtherNet/IP adapter (slave), Library for *e!RUNTIME*; MQTT
ETHERNET protocols	DHCP, DNS, NTP, FTP, FTPS, SNMP, HTTP, HTTPS, SSH
CPU	Cortex A8, 600 MHz
Operating system	Real-time Linux 3.18 (with RT-Preempt patch)
Programming environment	*e!COCKPIT* (based on CODESYS V3)
Programming languages	
per IEC 61131-3	IL, LD, FBD (CFC), ST, FC
Visualization	Web-Visu
Baud rate	ETHERNET: 10/100 Mbit/s
Transmission medium	Twisted Pair S-UTP; 100 Ω; Cat 5; 100 m maximum cable length
Type of memory card	microSD up to 32 GB (all guaranteed properties only valid with WAGO 758-879/000-3102 Memory Card)
Memory card slot	Push-push mechanism, sealable cover lid
Main memory (RAM)	256 MB
Internal memory (flash)	256 MB
Non-volatile memory (hardware)	64 KB
Program memory	12 MB*
Data memory	12 MB*
Non-volatile memory (software)	64 KB

*For memory configuration via *e!RUNTIME*, the program and data memory together have a maximum size of 12 MB and can be distributed dynamically.



Technical Data	
Number of modules per node (max.)	250
Number of modules without bus extension (max.)	64
Configuration options	*e!COCKPIT*; WAGO-I/O-*CHECK*; Web-Based Management; *e!RUNTIME* library; CODESYS library
Input and output process image (internal) max.	1000 words/1000 words
Input and output process image (MODBUS) max.	32000 words/32000 words
Indicators	LED (SYS, RUN, I/O, USR) 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
Supply voltage (system)	24 VDC (−25 … 30 %); via wiring level (CAGE CLAMP® connection)
Total current (system supply)	1700 mA
Input current (typ.) at nominal load (24 V)	550 mA
Supply voltage (field)	24 VDC (−25 … +30 %); via power jumper contacts
Isolation	500 V system/field
Number of outgoing power jumper contacts	3
Current carrying capacity (power jumper contacts)	10 A

General Specifications	
Connection technology: communication/fieldbus	Modbus TCP/UDP: 2 x RJ-45
Connection technology: system/field supply	CAGE CLAMP®
Conductor cross-sections	0.08 … 2.5 mm² / 28 … 14 AWG
Strip length	8 … 9 mm / 0.31 … 0.35 inch
Dimensions W x H x D (mm)	61.5 x 64.7 x 100; Height from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Color	Light gray
Housing material	Polycarbonate, polyamide 6.6
Weight	186.5 g
Surrounding air temperature (operation)	0 … 55 °C
Surrounding air 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); maximum: 5000 m
Mounting position	Any
Relative humidity (without condensation)	95 %
Vibration resistance	4 g 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