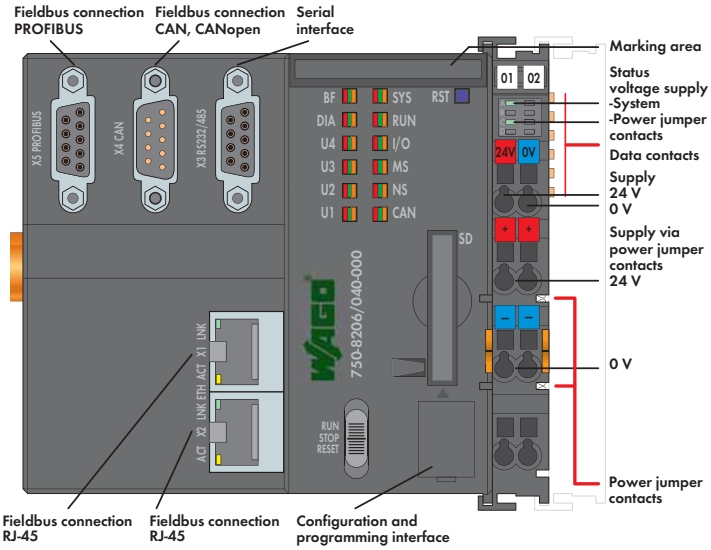
PLC – PFC200 Controller

For eXTReme environmental conditions; PFC200 CS 2ETH RS CAN DPS



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 modules found within the 750/753 Series.
Two ETHERNET interfaces and an integrated switch enable line topology wiring. The integrated Web server provides configuration options and status information from the PFC200.
Besides the processing industry and building automation, typical markets for the PFC200 include the standard machine and plant industries (e.g., packaging, bottling, textiles, production and metal & wood processing).

Programmable to IEC 61131-3
- Programmable via WAGO-I/O-PRO V2.3 or ***e!****COCKPIT*
- Direct connection of WAGO I/O modules
- 2 x ETHERNET (configurable), RS-232/-485, CAN, CANopen, PROFIBUS DP Slave
- Linux operating system with RT-Preemption patch
- Configuration via CODESYS, ***e!****COCKPIT* or Web-based management interface
- Maintenance-free

The module is ideal for operation in harsh environments:
- extended temperature range
- higher dielectric strength and EMC resistance
- greater vibration and shock resistance

Description	Item No.	Pack. Unit
PFC200 CS 2ETH RS CAN DPS/XTR	**750-8206/040-000**	
PFC200 CS 2ETH RS CAN DPS Telecontrol/ XTR	**750-8206/040-001**	

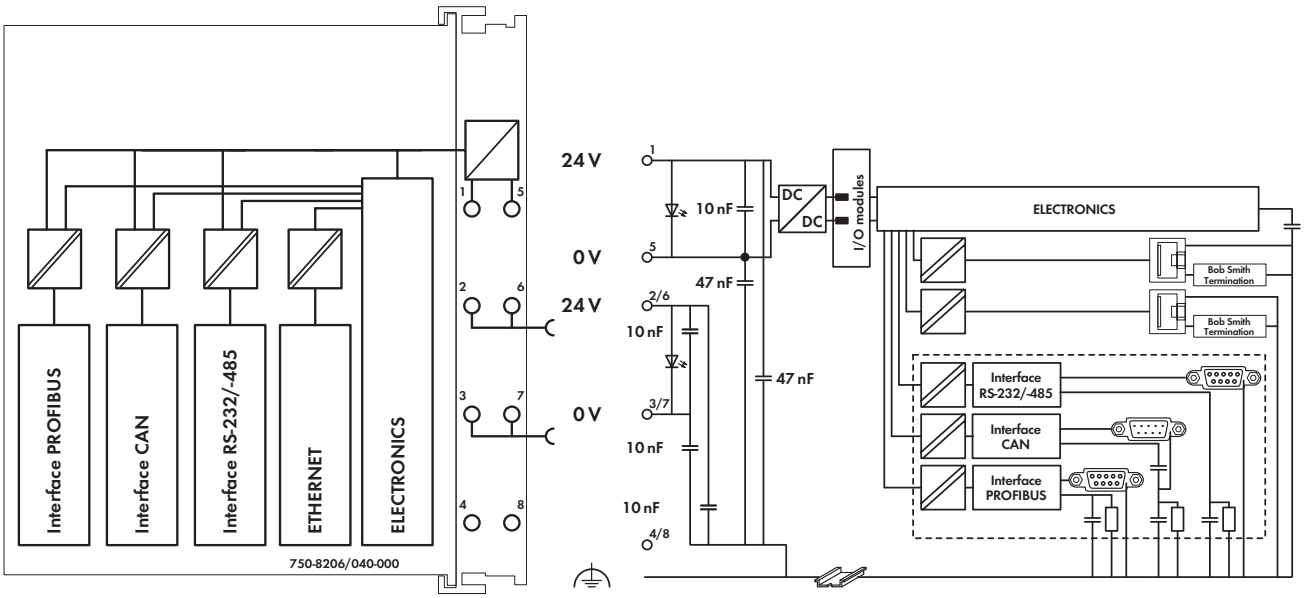
Accessories		Item No.	Pack. Unit
SD memory card, 2 GB		**758-879/000-001**	1
WAGO-I/O-PRO V2.3, RS-232 kit		**759-333**	1
Miniature WSB Quick marking system			
	plain	**248-501**	50
	with marking	see Full Line Catalog Automation Technology	

Approvals

Conformity marking	CE
Marine applications	DNV GL
UL 508	
ANSI/ISA 12.12.01	Class I Div2 ABCD T4

System Data

CPU	Cortex A8, 600 MHz
Operating system	Real-time Linux (with RT-Preemption patch)
Main memory (RAM)	256 Mbytes
Internal memory (flash)	256 Mbytes
Retain memory	128 Kbytes
ETHERNET	2 x RJ-45 (switched)
Transmission medium	Twisted Pair S-UTP
	100 Ω, Cat 5;
	Max. line length: 100 m
Baud rate	10/100 Mbit/s; 10Base-T/100Base-TX
Interface (serial)	RS-232/-485 (switchable)
Fieldbus	PROFIBUS DP Slave, CAN, CANopen
Protocols	DHCP, DNS, NTP, FTP, FTPS, SNMP, HTTP,
	HTTPS, SSH, MODBUS (TCP, UDP, RTU)
750-8206/040-001	IEC 60870-5-101/-103/-104,
	IEC 61850-7, IEC 61400-25, DNP3
Programming	WAGO-I/O-PRO V2.3, ***e!****COCKPIT*
IEC 61131-3	IL, LD, FBD (CFC), ST, FC
SD card slot	Push-push mechanism, sealable cover lid
Type of memory card	SD and SDHC up to 32 GB (All
	guaranteed properties are only valid in
	connection with the WAGO 758-879/
	000-001 memory card.)



Technical Data

Number of I/O modules (per node)	64
with bus extension	250
Input and output process image (max.)	
Data width process image	Internal data bus: 1000 words;
	MODBUS: 1000 words;
	PROFIBUS: 244 bytes in 80 slots;
	CAN: 2000 words
I/O interfaces (serial)	1 x serial interface per TIA/EIA 232 and
	TIA/EIA 485 (switchable), 9-pole D-sub
	female connector
Diagnostic LEDs	Power supply;
	SYS;
	RUN;
	FIELDBUS (MS, NS, CAN, DIA, BF);
	USER (U1 ... U4);
	Internal data bus
Indicators	User LEDs: via CODESYS library
Memory configuration CODESYS 2.3	
Program memory	16 MB
Data memory	64 MB
Non-volatile memory (retain)	128 KB
Memory configuration ***e!****RUNTIME*	
Program and data memory	60 MB (dynamically distributed)
Non-volatile memory (retain)	128 KB
Power supply	via CAGE CLAMP® connections, 24 VDC
under laboratory conditions +15 °C ... +35 °C	18 V ... 31.2 V (17.4 V ... 31.2 V)[1)]
for -40 °C ... +55 °C	18 V ... 28.8 V (17.4 V ... 28.8 V)[1)]
for +55 °C ... +70 °C	18 V ... 26.4 V (17.4 V ... 26.4 V)[1)]
	[1)] including residual ripple of 15 %
Input current typ. at rated load (24 V)	550 mA
Internal current consumption (5 V)	600 mA
Total current for I/O modules (5 V)	1700 mA
Voltage via power jumper contacts	24 V DC
Efficiency of the power supply (typ.) at	
nominal load (24 V)	90 %
Rated surge voltage	1 kV

General Specifications

Dimensions (mm) W x H x L	112 x 65 x 100
	Height from upper-edge of DIN 35 rail
Weight	260 g
Shock resistance	acc. to IEC 60068-2-27 (15g/11 ms/half-
	sine/1000 shocks; 25g/6 ms/1000
	shocks), EN 50155, EN 61373
Vibration resistance	acc. to IEC 60068-2-6 (acceleration: 5g),
	EN 60870-2-2, IEC 60721-3-1, -3,
	EN 50155, EN 61373
EMC immunity of interference	acc. to EN 61000-6-1, -2, EN 61131-2,
	marine applications, EN 50121-3-2, -4, -5,
	EN 60255-26, EN 60870-2-1,
	EN 61850-3, IEC 61000-6-5, IEEE 1613,
	VDEW: 1994
EMC emission of interference	acc. to EN 61000-6-3, -4, EN 61131-2,
	EN 60255-26, marine applications,
	EN 60870-2-1, EN 61850-3,
	EN 50121-3-2, -4, -5
Degree of protection	IP20 acc. to DIN 60529
Type of mounting	DIN 35 rail
Housing material	PC
Wire connection	CAGE CLAMP®
Cross sections	0.25 mm² ... 2.5 mm² / AWG 24 ... 14
Strip lengths	8 ... 9 mm / 0.33 in
Ambient conditions	
Operating temperature	-40 °C ... +70 °C
Storage temperature	-40 °C ... +85 °C
Relative humidity	Max. 95 % short-term condensation per
	Class 3K7/IEC EN 60721-3-3 and E DIN
	40046-721-3 (except wind-driven
	precipitation, water and ice formation)
Operating altitude	without temperature derating: 0 m ... 2000 m;
	with temperature derating: 2000 m ... 5000 m
	(0.5 K/100 m); max.: 5000 m