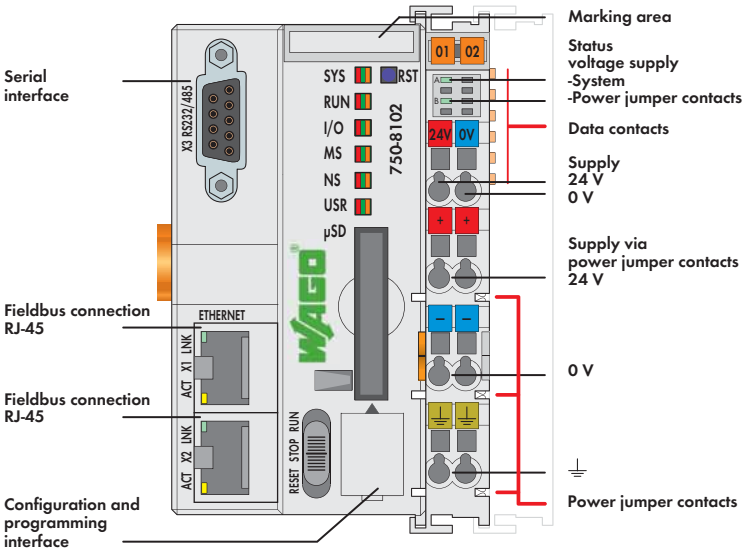
PLC – PFC100 Controller

PFC100 CS 2ETH RS



The PFC100 Controller is a compact PLC for the modular WAGO-I/O-SYSTEM. In addition to providing commonly used network and fieldbus interfaces, the controller supports all digital, analog and specialty I/O modules in the 750/753 Series.
Two ETHERNET interfaces and an integrated switch enable line topology wiring – no extra-cost hardware is needed.
An integrated Webserver provides user configuration options and displays PFC100 status information.
Besides 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).

The controller's programming complies with IEC 61131-3.
Programmable via ***e!****COCKPIT*

- Direct connection of WAGO I/O modules
- 2 x ETHERNET (configurable), RS-232/-485
- Linux 3.18 operating system with RT-Preemption patch
- Configuration via ***e!****COCKPIT* or Web-Based Management user interface
- Maintenance-free

Description	Item No.	Pack. Unit
PFC100 CS 2ETH RS	**750-8102**	1
PFC100 CS 2ETH RS/T	**750-8102/025-000**	1
Extended temperature range: -20 °C ... +60 °C		

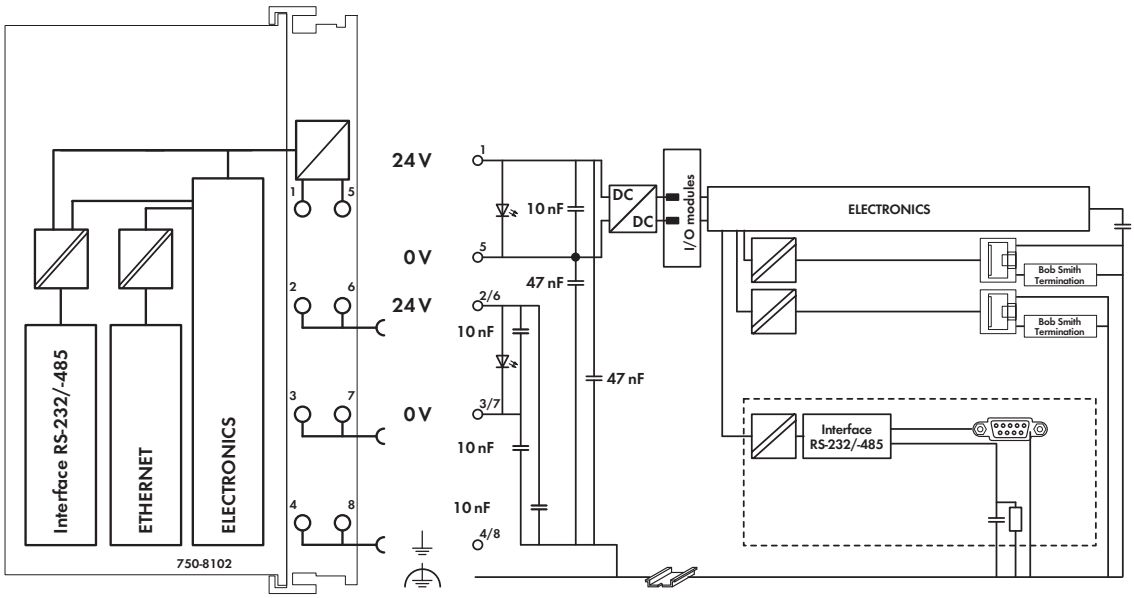
Accessories	Item No.	Pack. Unit
microSD memory card, 2 GB	**758-879/000-3102**	1
Miniature WSB Quick marking system		
plain	**248-501**	50
with marking	see Full Line Catalog Automation Technology	

Approvals

Conformity marking	CE
Marine applications (versions upon request)	pending
UL 508	pending
TÜV 14 ATEX 148929 X	pending
IECEx TUN 14.0035 X	pending

System Data

CPU	Cortex A8, 600 MHz
Operating system	Real-time Linux 3.18 (with RT-Preemption patch)
Retain memory	64 Kbytes
ETHERNET	2 x RJ-45 (configurable)
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
Protocols	DHCP, DNS, NTP, FTP, FTPS, SNMP, HTTP, HTTPS, SSH, MODBUS (TCP, UDP)
Programming	***e!****COCKPIT*
IEC 61131-3	IL, LD, FBD (CFC), ST, FC
SD card slot	Push-push mechanism, sealable cover lid
Type of memory card	microSD up to 32 GB (All guaranteed properties are only valid when used with WAGO's 758-879/000-3102 memory card.)



Technical Data

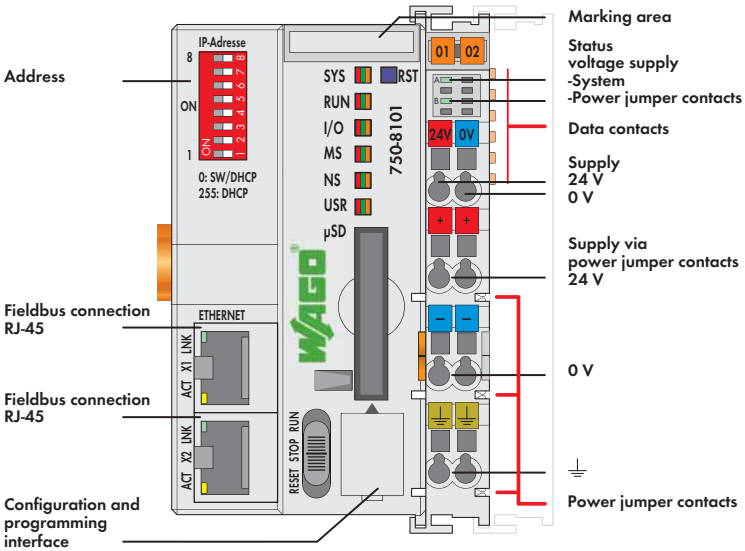
Number of I/O modules (per node)	64
with bus extension	250
Input and output process image (max.)	
Data width process image	Internal data bus: 1000 words;
	MODBUS: 1000 words
Diagnostic LEDs	Power supply;
	SYS; RUN;
	FIELDBUS (MS, NS);
	USER (U1);
	Internal data bus
Indicators	User LEDs: via CODESYS library
Memory configuration *e!RUNTIME*	
Program and data memory	12 MB (dynamically distributed)
Non-volatile memory (retain)	128 KB
Power supply	24 V DC (-25 % ... +30 %)
Max. input current (24 V)	550 mA
Total current for I/O modules (5 V)	1700 mA
Isolation	500 V system/supply

General Specifications

Dimensions (mm) W x H x L	62 x 65 x 100
	Height from upper-edge of DIN 35 rail
EMC immunity of interference	acc. to EN 61000-6-2, marine applications
EMC emission of interference	acc. to EN 61000-6-3, marine applications
Degree of protection	IP20 acc. to DIN 60529
Type of mounting	DIN 35 rail
Housing material	PC
Wire connection	CAGE CLAMP®
Cross sections	0.08 mm² ... 2.5 mm² / AWG 28 ... 14
Strip lengths	8 ... 9 mm / 0.33 in
Ambient conditions	
Operating temperature	0 °C ... +55 °C
Storage temperature	-25 °C ... +85 °C
Relative air humidity (no condensation)	95 %

PLC – PFC100 Controller

PFC100 CS 2ETH



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Two ETHERNET interfaces and an integrated switch enable line topology wiring – no extra-cost hardware is needed.
An integrated Webserver provides user configuration options and displays PFC100 status information.
Besides 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).

The DIP switch configures the last byte of the IP address and may be used for IP address assignment.

The controller's programming complies with 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-Preemption 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
Extended temperature range: -20 °C ... +60 °C		

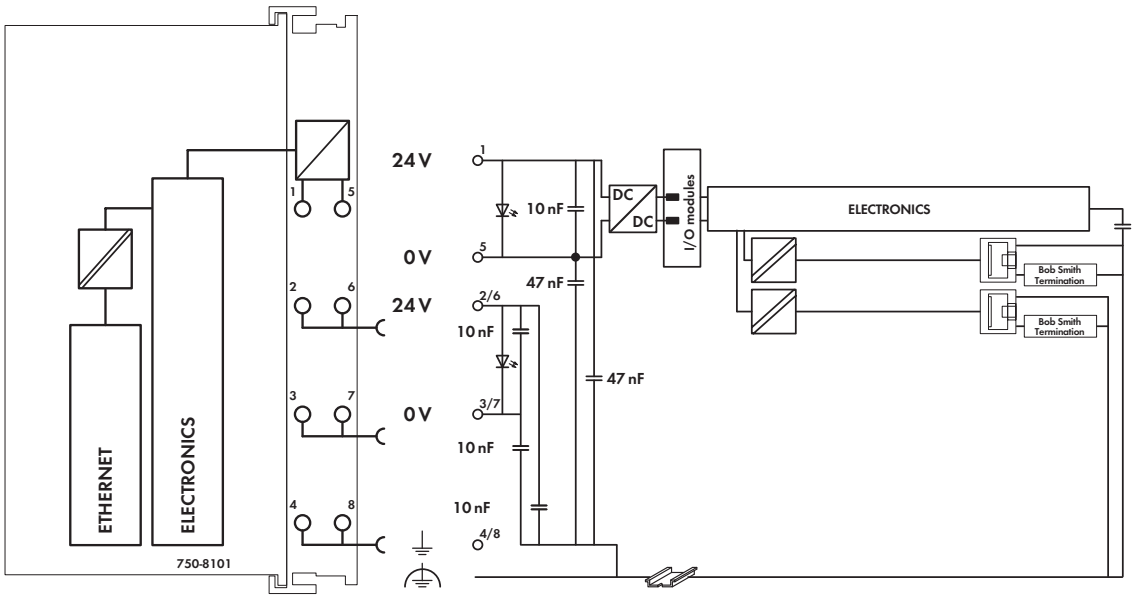
Accessories	Item No.	Pack. Unit
microSD memory card, 2 GB	**758-879/000-3102**	1
Miniature WSB Quick marking system		
plain	**248-501**	50
with marking	see Full Line Catalog Automation Technology	

Approvals

Conformity marking	CE
Marine applications (versions upon request)	pending
UL 508	pending
TÜV 14 ATEX 148929 X	pending
IECEx TUN 14.0035 X	pending

System Data

CPU	Cortex A8, 600 MHz
Operating system	Real-time Linux 3.18 (with RT-Preemption patch)
Retain memory	64 Kbytes
ETHERNET	2 x RJ-45 (configurable)
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
Protocols	DHCP, DNS, NTP, FTP, FTPS, SNMP, HTTP, HTTPS, SSH, MODBUS (TCP, UDP)
Programming	***e!****COCKPIT*
IEC 61131-3	IL, LD, FBD (CFC), ST, FC
SD card slot	Push-push mechanism, sealable cover lid
Type of memory card	microSD up to 32 GB (All guaranteed properties are only valid when used with WAGO's 758-879/000-3102 memory card.)



Technical Data

Number of I/O modules (per node)	64
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Input and output process image (max.)	
Data width process image	Internal data bus: 1000 words;
	MODBUS: 1000 words
Diagnostic LEDs	Power supply;
	SYS; RUN;
	FIELDBUS (MS, NS);
	USER (U1);
	Internal data bus
Indicators	User LEDs: via CODESYS library
Memory configuration *e!RUNTIME*	
Program and data memory	12 MB (dynamically distributed)
Non-volatile memory (retain)	64 KB
Power supply	24 V DC (-25 % ... +30 %)
Max. input current (24 V)	550 mA
Total current for I/O modules (5 V)	1700 mA
Isolation	500 V system/supply

General Specifications

Dimensions (mm) W x H x L	62 x 65 x 100
	Height from upper-edge of DIN 35 rail
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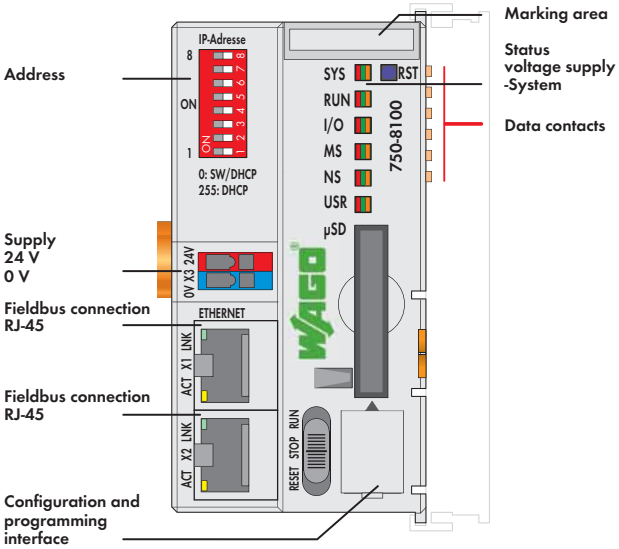
EMC emission of interference	acc. to EN 61000-6-3, marine applications
Degree of protection	IP20 acc. to DIN 60529
Type of mounting	DIN 35 rail
Housing material	PC
Wire connection	CAGE CLAMP®
Cross sections	0.08 mm² ... 2.5 mm² / AWG 28 ... 14
Strip lengths	8 ... 9 mm / 0.33 in
Ambient conditions	
Operating temperature	0 °C ... +55 °C
Storage temperature	-25 °C ... +85 °C
Relative air humidity (no condensation)	95 %

PLC – PFC100 Controller

PFC100 CS 2ETH ECO



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- Direct connection of WAGO I/O modules
- 2 x ETHERNET (configurable)
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- Configuration via ***e!****COCKPIT* or Web-Based Management user interface
- Maintenance-free

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PFC100 CS 2ETH ECO	**750-8100**	1

Accessories	Item No.	Pack. Unit
microSD memory card, 2 GB	**758-879/000-3102**	1
Miniature WSB Quick marking system		
plain	**248-501**	50
with marking	see Full Line Catalog Automation Technology	

Approvals

Conformity marking	CE
Marine applications	pending
UL 508	pending
TÜV 14 ATEX 148929 X	pending
IECEx TUN 14.0035 X	pending

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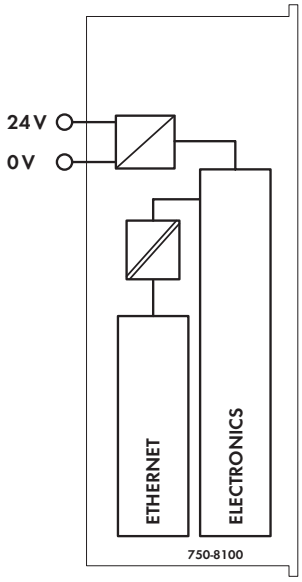

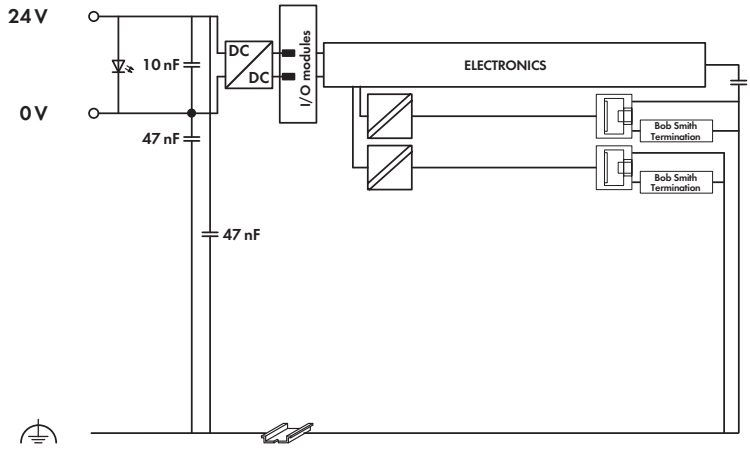

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	MODBUS: 1000 words
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	SYS; RUN;
	FIELDBUS (MS, NS);
	USER (U1);
	Internal data bus
Indicators	User LEDs: via CODESYS library
Memory configuration *e!RUNTIME*	
Program and data memory	10 MB (dynamically distributed)
Non-volatile memory (retain)	64 KB
Power supply	24 V DC (-25 % ... +30 %)
Max. input current (24 V)	550 mA
Total current for I/O modules (5 V)	700 mA
Isolation	500 V system/supply

General Specifications

Dimensions (mm) W x H x L	50 x 65 x 100
	Height from upper-edge of DIN 35 rail
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