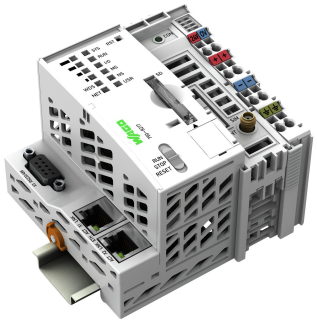
Data sheet | Item number: 750-8217

Controller PFC200; 2nd Generation; 2 x ETHERNET, RS-232/-485, Mobile Radio Module 4G

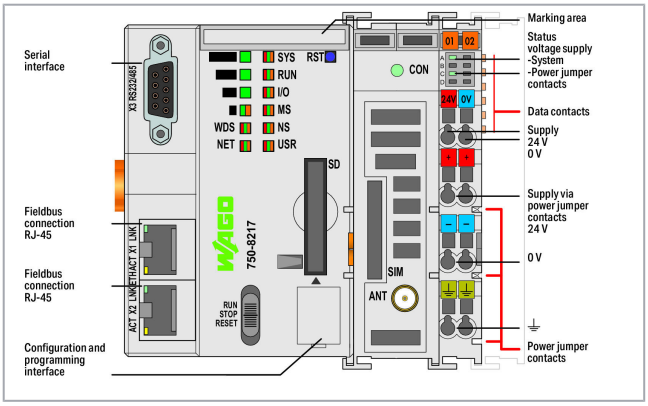
www.wago.com/750-8217

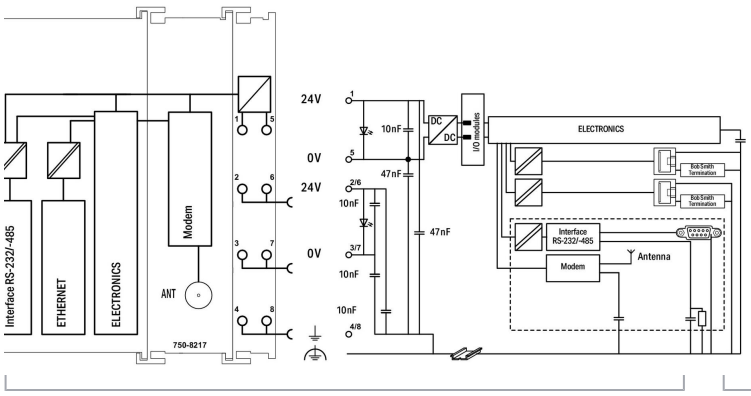


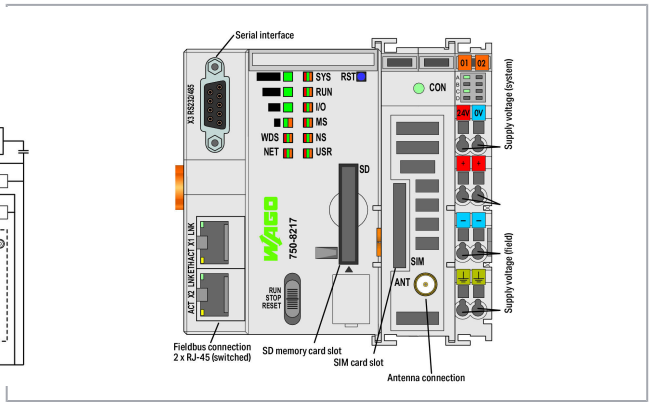
RoHS ✓ Compliant

BOMcheck.net

Color:







Item description

The PFC200 Controller is a compact PLC for the modular WAGO I/O System. Besides network and fieldbus interfaces, this controller supports all digital and analog input/output modules, as well as specialty modules found within the 750/753 Series.
Two ETHERNET interfaces and an integrated switch enable line topology wiring.
The integrated cellular modem provides a wireless connection to the Internet and includes a radio license for EU countries (other countries upon request).
An integrated Webserver provides user configuration options, while displaying PFC200 status information.
Besides standard machinery and equipment control, as well as building automation, typical applications for the PFC200 include decentralized data logging for the process industry.

Subject to changes. Please also observe the further product documentation!

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Advantages:

- Programming per IEC 61131-3
- Programmable via *e!COCKPIT*
- Direct connection of WAGO I/O Modules
- 2 x ETHERNET (configurable), RS-232/-485
- Linux® operating system with RT-Preempt patch
- Configuration via *e!COCKPIT* or Web-Based-Management user interface
- Maintenance-free

Note:
Country approvals: All EU countries
(approvals for other countries upon request)

Data

Technical data

Communication	Modbus (TCP, UDP) ETHERNET Modbus® RTU RS-232 Serial Interface RS-485 Serial Interface EtherNet/IP™ Adapter (slave), library for e!RUNTIME MQTT Telecontrol protocols (requires an additional license on the device)
ETHERNET protocols	DHCP DNS NTP FTP FTPS SNMP HTTP HTTPS SSH
Telecontrol protocols	IEC 60870-5-101/-103/-104 (Zusatzlizenz als Slave oder Master) IEC-61850 (Zusatzlizenz als Client 300) DNP3 (Zusatzlizenz als Slave oder Master 300)
Visualization	Web Visu
Operating system	Real-time Linux (with RT-Preempt patch)
CPU	Cortex A8; 1 GHz
Programming languages per IEC 61131-3	Instruction List (IL) Ladder Diagram (LD)

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	Function Block Diagram (FBD), Continuous Function Chart (CFC) Structured Text (ST) Sequential Function Chart (SFC)
Programming environment	e!COCKPIT (based on CODESYS V3)
Configuration options	e!COCKPIT WAGO-I/O-CHECK Web-Based Management e!RUNTIME Library CODESYS Library
Security encryption	OpenVPN, IPsec, firewall
Services	GPRS connection to Internet
Radio technology	GSM/UMTS/LTE
Frequency band	GSM dual band (B3; B8); E-UTRA bands (B1; B3; B5; B7; B8; B20; B38; B40; B41)
Baud rate (communication/fieldbus 1)	10/100 Mbit/s
Baud rate	ETHERNET: 10/100 Mbit/s
Transmission medium (communication/fieldbus)	ETHERNET: Twisted Pair S-UTP; 100 Ω; Cat. 5; 100 m maximum cable length
Main memory (RAM)	512 MB
Internal memory (flash)	4096 MB
Non-volatile hardware memory	128 Kbytes
Program memory	CODESYS V2: 16 MB; e!RUNTIME: 32 MB
Data memory	CODESYS V2: 64 MB; e!RUNTIME: 128 MB
Non-volatile software memory	128 Kbytes
Non-volatile software memory	128. Kbytes
Memory card type	SD and SDHC up to 32 GB (all guaranteed properties only valid with WAGO Memory Card)
Memory card slot	Push-push mechanism; Cover lid (sealable)
SIM card type	Mini-SIM; Temperature range: −20 … +85 °C
SIM card slot	Push-push mechanism
Number of modules per node (max.)	250
Number of modules without a bus extension (max.)	64
Input and output (internal) process image (max.)	1000 Worte/1000 Worte
Input and output (MODBUS) process image (max.)	CODESYS V2: 1000 Worte/1000 Worte; e!RUNTIME: 32000 Worte /32000 Worte
Indicators	LED (SYS, RUN, I/O, MS, NS, USR, S1 … S4, WDS, NET) red/green /orange: system status, program, local data bus, status programmable by user (can be used via CODESYS library), signal strength S1 … S4, data service status; LED (CON, A, B) green: mobile network status, system power supply status, field supply status
Supply voltage (system)	24 VDC (-25 … +30 %); via pluggable connector (CAGE CLAMP®)

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	connection)
Input current (typ.) at nominal load (24 V)	550 mA
Total current (system supply)	700 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 V system/field

Connection data

Connection technology: communication/fieldbus	Modbus TCP/UDP: 2 x RJ-45; Modbus RTU: 1 x D-sub 9 socket; RS-232 serial interface: 1 x D-sub 9 socket; RS-485 serial interface: 1 x D-sub 9 socket
Connection technology: system supply	2 x CAGE CLAMP®
Connection technology: field supply	6 x CAGE CLAMP®
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 inch
Connection technology: antenna	1 x SMA socket
Connection technology: device configuration	1 x Male connector; 4-pole

Physical data

Width	102.5 mm / 4.035 inch
Height	100 mm / 3.937 inch
Depth	71.9 mm / 2.831 inch
Depth from upper edge of DIN-rail	64.7 mm / 2.547 inch

Mechanical data

Weight	299.8 g
Color	light gray
Housing material	Polycarbonate; polyamide 6.6
Conformity marking	CE

Environmental requirements

Surrounding air temperature (operation)	0 … 55 °C
Surrounding air temperature (storage)	-40 … 85 °C

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Protection type	IP20
Pollution degree (5)	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	any
Mounting type	DIN-35 rail
Vibration resistance	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
Fire load	2.122 MJ
Permissible 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

Packaging type	BOX
Country of origin	DE
GTIN	4055143984324
Customs tariff number	85371091990

Approvals / Certificates

Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
	DNV GL Det Norske Veritas, Germanischer Lloyd	DNVGL-CG-339,Dec.2019	TAA0000194

Required accessories

software

Item no.: 2759-2243/211-1000
e!RUNTIME; IEC61850 Client; 300; Single License; Online activation
www.wago.com/2759-2243/211-1000

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	**Item no.: 2759-2290/211-1000** e!RUNTIME; DNP3 Slave; Single License; Online activation	www.wago.com/2759-2290/211-1000
	**Item no.: 2759-2293/211-1000** e!RUNTIME; DNP3 Master; 300; Single License; Online activation	www.wago.com/2759-2293/211-1000
	**Item no.: 2759-290/211-1000** e!RUNTIME; IEC60870 Slave; Single License; Online activation	www.wago.com/2759-290/211-1000
	**Item no.: 2759-293/211-1000** e!RUNTIME; IEC60870 Master; 300; Single License; Online activation	www.wago.com/2759-293/211-1000

Compatible products

system box

	**Item no.: 850-804** IP65 enclosure; Stainless steel; WxHxD (400x123x200 mm); 4 x M20, 16 x M16, 28 x M12 cable grip	www.wago.com/850-804
	**Item no.: 850-804/000-001** IP65 enclosure; Stainless steel; WxHxD (400x123x200 mm); 2 x M20, 13 x M16, 32 x M12 cable grip	www.wago.com/850-804/000-001
	**Item no.: 850-805** IP65 enclosure; Stainless steel; WxHxD (600x123x200 mm); 4 x M20, 19 x M16, 67 x M12 cable grip	www.wago.com/850-805
	**Item no.: 850-814/002-000** IP65 enclosure; Sheet steel (RAL 7035); WxHxD (200x120x200 mm); without flange plate	www.wago.com/850-814/002-000
	**Item no.: 850-815/002-000** IP65 enclosure; Sheet steel (RAL 7035); WxHxD (300x120x200 mm); without flange plate	www.wago.com/850-815/002-000
	**Item no.: 850-816/002-000** IP65 enclosure; Sheet steel (RAL 7035); WxHxD (400x120x200 mm); without flange plate	www.wago.com/850-816/002-000
	**Item no.: 850-817/002-000** IP65 enclosure; Sheet steel (RAL 7035); WxHxD (600x120x200 mm); without flange plate	www.wago.com/850-817/002-000
	**Item no.: 850-825** IP65 enclosure; Aluminium (RAL 7032); WxHxD (160x100x160 mm); 9 x M12, 4 x M20	www.wago.com/850-825
	**Item no.: 850-826** IP65 enclosure; Aluminium (RAL 7032); WxHxD (240x100x160 mm); 4 x M20, 4 x M16, 14 x M12 cable grip	www.wago.com/850-826

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	**Item no.: 850-826/002-000** IP65 enclosure; Aluminium (RAL 7035); WxHxD (240x100x160 mm); 4 x M20, 4 x M16, 14 x M12 cable grip	www.wago.com/850-826/002-000
	**Item no.: 850-827** IP65 enclosure; Aluminium (RAL 7032); WxHxD (320x100x160 mm); 4 x M20, 8 x M16, 17 x M12 cable grip	www.wago.com/850-827
	**Item no.: 850-827/002-000** IP65 enclosure; Aluminium (RAL 7035); WxHxD (320x100x160 mm); 4 x M20, 8 x M16, 17 x M12 cable grip	www.wago.com/850-827/002-000
	**Item no.: 850-828** IP65 enclosure; Aluminium (RAL 7032); WxHxD (480x100x160 mm); 4 x M20, 10 x M16, 35 x M12 cable grip	www.wago.com/850-828
	**Item no.: 850-828/002-000** IP65 enclosure; Aluminium (RAL 7035); WxHxD (480x100x160 mm); 4 x M20, 10 x M16, 35 x M12 cable grip	www.wago.com/850-828/002-000
	**Item no.: 850-834** IP65 enclosure; Polyester (RAL 7032); WxHxD (164x100x164 mm); 9 x M12, 4 x M20	www.wago.com/850-834
	**Item no.: 850-835** IP65 enclosure; Polyester (RAL 7032); WxHxD (244x100x164 mm); 4 x M20, 4 x M16, 14 x M12 cable grip	www.wago.com/850-835
	**Item no.: 850-836** IP65 enclosure; Polyester (RAL 7032); WxHxD (324x100x164 mm); 4 x M20, 8 x M16, 17 x M12 cable grip	www.wago.com/850-836

General accessories

	**Item no.: 750-921** Bluetooth® Adapter; light gray	www.wago.com/750-921
	**Item no.: 750-923** Configuration cable; USB connector; Length: 2.5 m; black	www.wago.com/750-923
	**Item no.: 750-923/000-001** Configuration cable; USB connector; Length: 5 m	www.wago.com/750-923/000-001
	**Item no.: 758-975** Magnetic foot antenna; with 2.5m cable and SMA plug; GSM/ UMTS/ LTE/ Bluetooth®/ WLAN; 698-960, 1400-1518, 1710-2700 MHz	www.wago.com/758-975

software

	**Item no.: 2759-101/1110-2002** e!COCKPIT; Workstation License	www.wago.com/2759-101/1110-2002
	**Item no.: 2759-101/1110-2005** e!COCKPIT; Multi-User License; 05 pcs	www.wago.com/2759-101/1110-2005

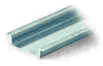
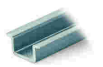
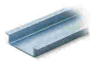
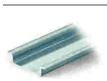
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	**Item no.: 2759-101/1110-2010** e!COCKPIT; Multi-User License; 10 pcs	www.wago.com/2759-101/1110-2010
	**Item no.: 2759-101/1110-2015** e!COCKPIT; Multi-User License; 15 pcs	www.wago.com/2759-101/1110-2015
	**Item no.: 2759-101/1110-2020** e!COCKPIT; Multi-User License; 20 pcs	www.wago.com/2759-101/1110-2020
	**Item no.: 2759-101/1110-3000** e!COCKPIT; Site License	www.wago.com/2759-101/1110-3000
	**Item no.: 2759-101/1110-4000** e!COCKPIT; Buy-out License	www.wago.com/2759-101/1110-4000

Carrier rail

	**Item no.: 210-112** Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 25 mm; silver-colored	www.wago.com/210-112
	**Item no.: 210-113** Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored	www.wago.com/210-113
	**Item no.: 210-114** Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored	www.wago.com/210-114
	**Item no.: 210-115** Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 18 mm; silver-colored	www.wago.com/210-115
	**Item no.: 210-118** Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored	www.wago.com/210-118
	**Item no.: 210-196** Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored	www.wago.com/210-196
	**Item no.: 210-197** Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored	www.wago.com/210-197
	**Item no.: 210-198** Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored	www.wago.com/210-198
	**Item no.: 210-504** Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715; silver-colored	www.wago.com/210-504
	**Item no.: 210-505** Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715; silver-colored	www.wago.com/210-505

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	**Item no.: 210-506** Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715; silver-colored	www.wago.com/210-506
	**Item no.: 210-508** Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715; silver-colored	www.wago.com/210-508
shield connection		
	**Item no.: 790-108** Shield clamping saddle; 11 mm wide; diameter of compatible conductor; 3 … 8 mm	www.wago.com/790-108
	**Item no.: 790-116** Shield clamping saddle; 19 mm wide; diameter of compatible conductor; 7 … 16 mm	www.wago.com/790-116
	**Item no.: 790-124** Shield clamping saddle; 27 mm wide; diameter of compatible conductor; 6 … 24 mm	www.wago.com/790-124
	**Item no.: 790-140** Shield clamping saddle; diameter of compatible conductor	www.wago.com/790-140
	**Item no.: 790-208** Shield clamping saddle; 12.4 mm wide; 3 … 8 mm	www.wago.com/790-208
	**Item no.: 790-216** Shield clamping saddle; 21.8 mm wide; 6 … 16 mm	www.wago.com/790-216
	**Item no.: 790-220** Shield clamping saddle; 30 mm wide; 6 … 20 mm	www.wago.com/790-220
Marking accessories		
	Item no.: 2009-145 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white	www.wago.com/2009-145
	Item no.: 2009-145/000-002 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow	www.wago.com/2009-145/000-002
	Item no.: 2009-145/000-005 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red	www.wago.com/2009-145/000-005
	Item no.: 2009-145/000-006 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue	www.wago.com/2009-145/000-006
	Item no.: 2009-145/000-007 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray	www.wago.com/2009-145/000-007
	Item no.: 2009-145/000-012 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange	www.wago.com/2009-145/000-012

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	**Item no.: 2009-145/000-023** Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green	www.wago.com/2009-145/000-023
	**Item no.: 2009-145/000-024** Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet	www.wago.com/2009-145/000-024
	**Item no.: 248-501** Miniature WSB Quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card	www.wago.com/248-501
	**Item no.: 248-501/000-002** Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow	www.wago.com/248-501/000-002
	**Item no.: 248-501/000-005** Mini-WSB marking card; as card; not stretchable; plain; snap-on type; red	www.wago.com/248-501/000-005
	**Item no.: 248-501/000-006** Mini-WSB marking card; as card; not stretchable; plain; snap-on type; blue	www.wago.com/248-501/000-006
	**Item no.: 248-501/000-007** Mini-WSB marking card; as card; not stretchable; plain; snap-on type; gray	www.wago.com/248-501/000-007
	**Item no.: 248-501/000-012** Mini-WSB marking card; as card; not stretchable; plain; snap-on type; orange	www.wago.com/248-501/000-012
	**Item no.: 248-501/000-017** Mini-WSB marking card; as card; not stretchable; plain; snap-on type; light green	www.wago.com/248-501/000-017
	**Item no.: 248-501/000-023** Mini-WSB marking card; as card; not stretchable; plain; snap-on type; green	www.wago.com/248-501/000-023
	**Item no.: 248-501/000-024** Mini-WSB marking card; as card; not stretchable; plain; snap-on type; violet	www.wago.com/248-501/000-024
	**Item no.: 750-103** Group marker carrier; transparent	www.wago.com/750-103
	**Item no.: 750-107** Group marker carrier; transparent	www.wago.com/750-107

memory card

	**Item no.: 758-879/000-001** Memory Card SD; SLC-NAND; 2 GByte; Temperature from -40 to 90 °C	www.wago.com/758-879/000-001

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	Item no.: 758-879/000-2108 Memory Card SD; pSLC-NAND; 8 GB; Temperature range: -40 to 90°C	www.wago.com/758-879/000-2108

wiring and connectors

	Item no.: 750-975 ETHERNET RJ-45 connector, IP20; ETHERNET 10/100 Mbit/s; for field assembly; light gray	www.wago.com/750-975
	Item no.: 750-977/000-011 Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22	www.wago.com/750-977/000-011
	Item no.: 750-977/000-012 Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22	www.wago.com/750-977/000-012
	Item no.: 750-977/000-021 Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24	www.wago.com/750-977/000-021
	Item no.: 750-977/000-022 Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24	www.wago.com/750-977/000-022
	Item no.: 750-978/000-011 Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22; Strain relief	www.wago.com/750-978/000-011
	Item no.: 750-978/000-012 Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22; Strain relief	www.wago.com/750-978/000-012
	Item no.: 750-978/000-021 Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24; Strain relief	www.wago.com/750-978/000-021
	Item no.: 750-978/000-022 Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24; Strain relief	www.wago.com/750-978/000-022
	Item no.: 750-979/000-011 Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568A; AWG 22; Strain relief	www.wago.com/750-979/000-011
	Item no.: 750-979/000-012 Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 22; Strain relief	www.wago.com/750-979/000-012
	Item no.: 750-979/000-021 Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568A; AWG 24; Strain relief	www.wago.com/750-979/000-021

Subject to changes. Please also observe the further product documentation!

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Item no.: 750-979/000-022
Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 24; Strain relief

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Downloads

Documentation

Manual

PFC200; 2ETH RS 4G Controller PFC200 G2; 2 x ETHERNET, RS232/-485, Mobil Radio Module 4G	V 1.2.0 10. 12. 2020	pdf 6.7 MB	Download
Dokumentation Grid Gateway Mithilfe der Applikation "Grid Gateway" können die Messwerte der Mittelspannung, des Transformators, der Niederspannungsabgänge, Stellungsmeldungen und Temperaturen von der Ortsnetzstation an die Netzleittechnik übermittelt werden. Die Kommunikation erfolgt über das Protokoll IEC60870-5-104. Befehle und Sollwerte lassen sich ebenfalls empfangen und verarbeiten. Externe Messtechnik wie Kurzschluss-Erdschlussrichtungsanzeiger lassen sich über Modbus RTU parametrieren. Die gesamte Parametrierung kann bei Bedarf auf weitere Stationen übertragen werden. Eine Messdatensimulation ermöglicht es, neue Ortsnetzstationen schon beim Stationsbauer an der Netzleittechnik in Betrieb zu nehmen, ohne dass die Feldseite angeschlossen ist.	1.0.0.0 18. 2. 2021	pdf 7.5 MB	Download
Systemhandbuch WAGO I/O System 750 / 753 Dezentrale Automatisierungstechnik	V 3.0.0 4. 3. 2021	pdf 6.6 MB	Download

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System Description

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Additional Information

Disposal; Electrical and electronic equipment, Packaging	V 1.0.0	pdf 265.8 kB	Download
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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 750-8217 Controller PFC200; 2nd Generation; 2 x ETHERNET, RS-232/-485, Mobile Radio Module 4G	URL	Download

Installation Notes

Product family

Controller PFC

Die Steuerungen der Serie PFC200 stehen für vielfältige Aufgaben in der Industrie- Prozess- und Gebäudeautomation.

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