

Notes

Note	<p>Country approvals: All EU countries (approvals for other countries upon request)</p> <p>Only use approved antenna!</p> <p>Only the antenna with item No. 758-975 may be used in environments within the scope of UL, FCC or IC as only this antenna is approved for use with the controller!</p>
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Technical data

Communication	<p>Modbus (TCP, UDP)</p> <p>ETHERNET</p> <p>EtherNet/IP™ Adapter (slave), library for <i>e!RUNTIME</i></p> <p>Modbus® RTU</p> <p>RS-232 serial interface</p> <p>RS-485 interface</p> <p>MQTT</p> <p>BACnet/IP, requires an additional license</p> <p>EtherCAT® master (requires an additional license)</p> <p>Telecontrol protocols (requires an additional license on the device)</p>
ETHERNET protocols	<p>DHCP</p> <p>DNS</p> <p>NTP</p> <p>FTP</p> <p>FTPS</p> <p>SNMP</p> <p>HTTP</p> <p>HTTPS</p> <p>SSH</p>
Telecontrol protocols	<p>IEC 60870-5-101/-103/-104 (additional license as slave or master)</p> <p>IEC-61850 (additional license as Client 300)</p> <p>DNP3 (additional license as Slave or Master 300)</p>
Visualization	Web-Visu
Operating system	Real-time Linux (with RT-Preempt patch)
CPU	Cortex A8; 1 GHz
Programming languages per IEC 61131-3	<p>Instruction List (IL)</p> <p>Ladder Diagram (LD)</p> <p>Function Block Diagram (FBD), Continuous Function Chart (CFC)</p> <p>Structured Text (ST)</p> <p>Sequential Function Chart (SFC)</p>
Programming environment	<i>e!COCKPIT</i> (based on CODESYS V3)
Configuration options	<p><i>e!COCKPIT</i></p> <p>WAGO-I/O-CHECK</p> <p>Web-Based Management</p> <p><i>e!RUNTIME</i> library</p> <p>CODESYS Library</p>
Security encryption	OpenVPN, IPsec, firewall
Services	GPRS connection to Internet
Radio technology	GSM/Edge/UMTS/HSPA+ LTE
Frequency band	GSM: B2/B3/B5/B8; WCDMA: B1/B2/B4/B5/B6/B8/B19; LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/ B19/B20/B25/B26/B28; LTE-TDD: B38/B39/B40/B41
Baud rate (communication/fieldbus 1)	10/100 Mbit/s
Baud rate	10/100 Mbit/s
Transmission medium (communication/fieldbus)	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 KB
Program memory	32 MB
Data memory	128 MB
Non-volatile software memory	128 KB
Type of memory card	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 process image (internal) max.	1000 Worte/1000 Worte

Technical data

Input and output process image (Modbus®) max.	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 VSELV/PELV DC (-25 ... +30 %); via pluggable connector (CAGE CLAMP® connection)
Input current (typ.) at nominal load (24 V)	550 mA
Total current (system supply)	700 mA
Supply voltage (field)	24 VSELV/PELV DC (-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 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 mm ² / 28 ... 14 AWG
Fine-stranded conductor	0.08 ... 2.5 mm ² / 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	300.6 g
Color	light gray
Housing material	Polycarbonate; polyamide 6.6
Conformity marking	CE

Environmental requirements

Ambient temperature (operation)	0 ... +55 °C
Surrounding air temperature (storage)	-25 ... +85 °C
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	3.797 MJ
Permissible H ₂ S contaminant concentration at a relative humidity 75 %	10 ppm

Environmental requirements

Permissible SO₂ contaminant concentration at a relative humidity 75 % 25 ppm

Commercial data

PU (SPU)	1 Pieces
Country of origin VKOrg Germany	DE
GTIN	4066966199499
Customs tariff number VKOrg Germany	85371091990

Approvals and certificates

Ship Approvals



Approval	Standard	Certificate name
DNV DNV Germany GmbH	DNV-CG-0339, Aug. 2021	TAA0000194

UL-Approvals



Approval	Standard	Certificate name
UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 61010-2-201	E175199

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 750-8217/600-000	↓
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Documentation

Manual

PFC200; 2ETH RS 4G	1.5.0 14.03.2022	pdf 7095.36 KB	↓
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System Description

Controller PFC100/200, General Product Information	pdf 578.66 KB	↓
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Additional Information

Disposal; Electrical and electronic equipment, Packaging	V 1.0.0	pdf 259.56 KB	↓
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Bid Text

750-8217/600-000	xml 11.57 KB	↓
750-8217/600-000	docx 32.89 KB	↓

Engineering-Software

Configuration and Commissioning Software

WAGOupload	1.15.0.0 02.02.2022	zip 11092.25 KB	
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Runtime Software

Firmware

Image Update (SD Karte) PFC100/200	V 21 04.04.2022	zip 200475.83 KB	
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1 Compatible products

1.1 Optional accessories

1.1.1 Antenna

1.1.1.1 Antenna



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



Item no.: 758-974

Radio antenna; with 2m cable and SMA plug; GSM/ UMTS/ LTE/ Bluetooth®/ WLAN; 698-960, 1710-6000 MHz; 2G/3G/4G/5G



Item no.: 758-974/000-001

Radio antenna; with 2m cable and SMA plug; GSM/ UMTS/ LTE/ Bluetooth®/ WLAN; 698-960, 1710-6000 MHz; 2G/3G/4G/5G

1.1.2 Cables and connectors

1.1.2.1 Connecting cable



Item no.: 758-970/000-100

Connecting cable with SMA socket and SMA plug; Cable length 1 m; Cable type H155; GSM/ UMTS/ LTE/ Bluetooth®/ WLAN



Item no.: 758-970/000-1000

Connecting cable with SMA socket and SMA plug; Cable length 10 m; Cable type H155; GSM/ UMTS/ LTE/ Bluetooth®/ WLAN



Item no.: 758-970/000-300

Connecting cable with SMA socket and SMA plug; Cable length 3 m; Cable type H155; GSM/ UMTS/ LTE/ Bluetooth®/ WLAN



Item no.: 758-970/000-500

Connecting cable with SMA socket and SMA plug; Cable length 5 m; Cable type H155; GSM/ UMTS/ LTE/ Bluetooth®/ WLAN

1.1.2.2 Connector plug



Item no.: 750-979/000-011

Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568A; AWG 22; Strain relief



Item no.: 750-979/000-021

Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568A; AWG 24; Strain relief



Item no.: 750-979/000-012

Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 22; Strain relief



Item no.: 750-979/000-022

Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 24; Strain relief



Item no.: 750-977/000-011

Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22



Item no.: 750-978/000-011

Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22; Strain relief



Item no.: 750-977/000-021

Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24



Item no.: 750-978/000-021

Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24; Strain relief



Item no.: 750-977/000-012

Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22



Item no.: 750-978/000-012

Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22; Strain relief



Item no.: 750-977/000-022

Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24



Item no.: 750-978/000-022

Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24; Strain relief

1.1.2.2 Connector plug



Item no.: 750-975

ETHERNET RJ-45 connector, IP20;
ETHERNET 10/100 Mbit/s; for field assembly

1.1.3 Communication

1.1.3.1 Bluetooth



Item no.: 750-921

Bluetooth® Adapter

1.1.3.2 Communication cable



Item no.: 750-923

Configuration cable; USB connector;
Length: 2.5 m



Item no.: 750-923/000-001

Configuration cable; USB connector;
Length: 5 m

1.1.4 DIN-rail

1.1.4.1 Mounting accessories



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



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



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



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



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



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



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



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



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



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



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



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

1.1.5 Marking

1.1.5.1 Group marker carrier



Item no.: 750-107

Group marker carrier

1.1.5.2 Marker

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

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

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

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

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

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

Item no.: 2009-145

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

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



Item no.: 248-501/000-006

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; blue

Item no.: 248-501/000-007

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; gray

Item no.: 248-501/000-023

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; green

Item no.: 248-501/000-017

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; light green



Item no.: 248-501/000-012

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; orange

Item no.: 248-501/000-005

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; red

Item no.: 248-501/000-024

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; violet

Item no.: 248-501

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white



Item no.: 248-501/000-002

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow

1.1.5.3 Marker carrier



Item no.: 750-103

Group marker carrier

1.1.6 Memory card

1.1.6.1 Memory card



Item no.: 758-879/000-2108

Memory Card SD; pSLC-NAND; 8 GB; Temperature range: -40 to 90°C

Item no.: 758-879/000-001

Memory Card SD; SLC-NAND; 2 GByte; Temperature from -40 to 90 °C

1.1.7 Shield termination

1.1.7.1 Shield clamping saddles



Item no.: 790-108

Shield clamping saddle; 11 mm wide; diameter of compatible conductor; 3 ... 8 mm

Item no.: 790-208

Shield clamping saddle; 12.4 mm wide; 3 ... 8 mm

Item no.: 790-116

Shield clamping saddle; 19 mm wide; diameter of compatible conductor; 7 ... 16 mm

Item no.: 790-216

Shield clamping saddle; 21.8 mm wide; 6 ... 16 mm



Item no.: 790-124

Shield clamping saddle; 27 mm wide; diameter of compatible conductor; 6 ... 24 mm

Item no.: 790-220

Shield clamping saddle; 30 mm wide; 6 ... 20 mm

Item no.: 790-140

Shield clamping saddle; diameter of compatible conductor

1.1.8 Software

1.1.8.1 Basic version



Item no.: 2759-101/1110-4000
e!COCKPIT; Buy-out License



Item no.: 2759-101/1110-2005
e!COCKPIT; Multi-User License; 05 pcs



Item no.: 2759-101/1110-2010
e!COCKPIT; Multi-User License; 10 pcs



Item no.: 2759-101/1110-2015
e!COCKPIT; Multi-User License; 15 pcs



Item no.: 2759-101/1110-2020
e!COCKPIT; Multi-User License; 20 pcs



Item no.: 2759-101/1110-3000
e!COCKPIT; Site License



Item no.: 2759-101/1110-2002
e!COCKPIT; Workstation License

1.1.9 System enclosure

1.1.9.1 System enclosure



Item no.: 850-825
IP65 enclosure; Aluminium (RAL 7032);
WxHxD (160x100x160 mm); 9 x M12, 4 x
M20



Item no.: 850-826
IP65 enclosure; Aluminium (RAL 7032);
WxHxD (240x100x160 mm); 4 x M20, 4 x
M16, 14 x M12 cable grip



Item no.: 850-827
IP65 enclosure; Aluminium (RAL 7032);
WxHxD (320x100x160 mm); 4 x M20, 8 x
M16, 17 x M12 cable grip



Item no.: 850-828
IP65 enclosure; Aluminium (RAL 7032);
WxHxD (480x100x160 mm); 4 x M20, 10 x
M16, 35 x M12 cable grip



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



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



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



Item no.: 850-834
IP65 enclosure; Polyester (RAL 7032); Wx-
HxD (164x100x164 mm); 9 x M12, 4 x M20



Item no.: 850-835
IP65 enclosure; Polyester (RAL 7032); Wx-
HxD (244x100x164 mm); 4 x M20, 4 x
M16, 14 x M12 cable grip



Item no.: 850-836
IP65 enclosure; Polyester (RAL 7032);
WxHxD (324x100x164 mm); 4 x M20, 8 x
M16, 17 x M12 cable grip



Item no.: 850-814/002-000
IP65 enclosure; Sheet steel (RAL 7035);
WxHxD (200x120x200 mm); without flan-
ge plate



Item no.: 850-815/002-000
IP65 enclosure; Sheet steel (RAL 7035);
WxHxD (300x120x200 mm); without flan-
ge plate



Item no.: 850-816/002-000
IP65 enclosure; Sheet steel (RAL 7035);
WxHxD (400x120x200 mm); without flan-
ge plate



Item no.: 850-817/002-000
IP65 enclosure; Sheet steel (RAL 7035);
WxHxD (600x120x200 mm); without flan-
ge plate