

Technical data	
Communications	PROFIBUS DP master CANopen Modbus (TCP, UDP) ETHERNET Modbus RTU RS-232 serial interface RS-485 interface MQTT Telecontrol protocols
ETHERNET protocols	DHCP DNS NTP FTP FTPS SNMP HTTP HTTPS SSH
Telecontrol protocols	IEC 60870 IEC 61850 DNP3
Visualization	Web-Visu
Operating system	Real-time Linux (with PREEMPT_RT patch)
CPU	Cortex A8; 600 MHz
Programming languages per IEC 61131-3	Instruction List (IL) Ladder Diagram (LD) Function Block Diagram (FBD) Continuous Function Chart (CFC) Structured Text (ST) Sequential Function Chart (SFC)
Programming environment	WAGO-I/O-PRO V2.3 (based on CODESYS V2.3)
Configuration options	WAGO-I/O-CHECK Web-Based Management
Transmission 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)	256 MB
Internal memory (flash)	256 MB
Non-volatile hardware memory	128 KB
Program memory	16 MB
Data memory	64 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's memory card)
Memory Card Slot	Push-push mechanism; cover lid (sealable)
Number of modules per node (max.)	250
Number of modules without a bus extension (max.)	64
Input and output process image (internal) max.	1000 words/1000 words
Input and output process image (Modbus®) max.	CODESYS V2: 1000 words/1000 words
Input and output process image (PROFIBUS) max.	5000 bytes/5000 bytes
Input and output process image (CAN) max.	2000 words/2000 words
Drift – system clock (25 °C)	20 ppm
Drift – Real Time Clock (25 °C)	3 ppm
RTC backup time (25 °C)	30 days
Indicators	LED (SYS, RUN, I/O, CAN, BF, DIA, U1 ... U4) red/green/orange: Status system, program, internal data bus, CANopen, PROFIBUS, PROFIBUS diagnostics, 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 pluggable connector (CAGE CLAMP® connection)
Input current (typ.) at nominal load (24 V)	670 mA
Total current (system supply)	1700 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	PROFIBUS: 1 x D-sub 9 socket; CANopen: 1 x D-sub 9 plug; 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; Telecontrol protocol IEC 60870-5-101/-103: 1 x D-sub 9 socket; Telecontrol protocol IEC 60870-5-104: 1 x RJ-45; Telecontrol protocol IEC 61850: 1 x RJ-45; Telecontrol protocol DNP3: 1 x RJ-45 or D-sub 9 socket
Connection technology: system supply	2 x CAGE CLAMP®
Connection technology: field supply	6 x CAGE CLAMP®
Connectable conductor materials	Copper
Connection type	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 inches
Connection technology: device configuration	1 x Male connector; 4-pole

Physical data

Width	112 mm / 4.409 inches
Height	100 mm / 3.937 inches
Depth	71.9 mm / 2.831 inches
Depth from upper-edge of DIN-rail	64.7 mm / 2.547 inches

Mechanical data

Mounting type	DIN-35 rail
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Material data

Housing material	Polycarbonate; polyamide 6.6
Fire load	2.448 MJ
Weight	263.7 g
Conformity marking	CE

Environmental requirements

Ambient temperature (operation)	-20 ... +60 °C
Ambient 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); 5000 m (max.)
Mounting position	Horizontal left, horizontal right, horizontal top, horizontal bottom, vertical top and vertical bottom
Relative humidity (without condensation)	95 %
Relative humidity (with condensation)	Short-term condensation per Class 3K6/IEC EN 60721-3-3 and E-DIN 40046-721-3, accounting for a temperature range of -20 to +60 °C (except for wind-driven precipitation, water and ice formation)
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
Permissible H ₂ S contaminant concentration at a relative humidity 75 %	10 ppm
Permissible SO ₂ contaminant concentration at a relative humidity 75 %	25 ppm

Commercial data

PU (SPU)	1 pcs
Packaging type	Box
Country of origin	DE
GTIN	4055143624862
Customs tariff number	85371091990

Product Classification

UNSPSC	32151705
eCl@ss 10.0	27-24-26-07
eCl@ss 9.0	27-24-26-07
ETIM 9.0	EC000236
ETIM 10.0	EC000236
ECCN	NO US CLASSIFICATION

Environmental Product Compliance

CAS-No.	1303-86-2 1317-36-8 693-98-1 7439-92-1 79-94-7
REACH Candidate List Substance	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol 2-methylimidazole Diboron trioxide Lead Lead monoxide Perfluorobutane sulfonic acid (PFBS) and its salts
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	6(c) 7(a) 7(c)-I 7(c)-II
SCIP notification number (Austria)	e60cdbc8-e8eb-47c2-820c-bda8c24ff6d2
SCIP notification number (Belgium)	2c357c4e-0c23-4bd8-91f9-58d11cf45d62
SCIP notification number (Bulgaria)	c07354b0-d9d2-4983-b5e4-a0a9b14313b5
SCIP notification number (Czech Republic)	44eb197b-0101-4ea1-a77c-9251c2860ca0
SCIP notification number (Denmark)	251e5090-9374-4330-863d-4e865adb8268
SCIP notification number (Finland)	4e8fe67c-dc90-4dfc-8489-730f5c358458
SCIP notification number (France)	da745208-64b3-4e1f-8c7f-a3be2ed09096
SCIP notification number (Germany)	1706d994-550a-435c-99c1-064eb77c7a66
SCIP notification number (Hungary)	14c6dd00-e3ed-4567-97b8-fc6783fd6e5c
SCIP notification number (Italy)	6d96de37-3a83-4b7c-9c83-3aebdd749a10
SCIP notification number (Netherlands)	b899c693-2480-4912-a966-4f996b741394
SCIP notification number (Poland)	a4227334-5762-42f1-bf31-8b5e3a8984ac
SCIP notification number (Romania)	69dce501-3ebe-436a-a8eb-0bec37fd92fb
SCIP notification number (Sweden)	4893713a-d71e-4549-975b-b1184223f275

Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03083
KC National Radio Research Agency	Article 58-2, Clause 3	MSIP-REM-W43-PFC750
UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	-	E175199

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Approvals for marine applications



Approval	Standard	Certificate Name
ABS American Bureau of Shipping	-	22-2227356-PDA
BSH Bundesamt fuer Seeschifffahrt und Hydrographie	-	1104
DNV DNV Germany GmbH	DNV-CG-0339, Aug. 2021	TAA00001J4
LR Lloyds Register	-	LR2475997TA
PRS Polski Rejestr Statków	-	TE/1102/880590/23

Approvals for hazardous areas



Approval	Standard	Certificate Name
ATEX TUEV Nord Cert GmbH	EN 60079-0	TUEV14ATEX148929X (II 3 G Ex ec IIC T4 Gc)
CCCEX CQST/CNEX	CNCA-C23-01	2020312310000213 (Ex ec IIC T4 Gc)
IECEX TUEV Nord Cert GmbH	IEC 60079-0	IECEX TUN 14.0035 X (Ex ec IIC T4 Gc)
INMETRO TUV Rheinland do Brasil Ltda.	IEC 60079-0	TUV 12.1297 X
UKEX WAGO GmbH & Co. KG	EN 60079-0	UKCA_WA GO22UKEX003X_ec
UL Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)	UL 121201	E198726

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 750-8208/025-001	↓
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Documentation

Manual			
PFC200 CS 2ETH RS CAN DPM	1.11.0 29.08.2022	pdf 8991.03 KB	↓
Cyber Security for Controller PFC100 / PFC200	V 1.2.1 12.02.2025	pdf 3344.50 KB	↓
Product Manual WAGO IEC 61850 Solution	V 1.8.0	pdf 19203.07 KB	↓
Product Manual WAGO DNP3 Solution	V 1.5.1	pdf 5041.93 KB	↓

Manual			
Product Manual WAGO IEC 60870 Solution	V 1.8.0	pdf 5905.87 KB	↓
System Manual Series 750/753			↓
Product Manual WAGO MODBUS Master Configurator	V 1.1.0	pdf 1761.59 KB	↓



System Description			
Overview on WAGO-I/O-SYSTEM 750 approvals	pdf	770.48 KB	↓
Controller PFC100/200, General Product Information	pdf	578.66 KB	↓

Tutorial				
WAGO IEC 61850 solution (Transformer)	1.0	01.06.2012	wmv 19483.43 KB	↓
Establish connection to a controller using SSH	1.0	05.08.2017	mp4 28368.02 KB	↓
Set IP address with Ethernet Settings	3.0	18.12.2017	mp4 86272.82 KB	↓
Tutorial WAGO IEC 61850 / 61400 solution	1.0	01.06.2012	wmv 44339.58 KB	↓
WAGO IEC 61400-25 solution (Windmill)	1.0	01.06.2012	wmv 19878.48 KB	↓

Additional Information				
WAGO OPC UA Server	V 1.1.0 28.01.2021	pdf	1132.87 KB	↓

Bid Text				
750-8208/025-001	19.02.2019	xml	8.04 KB	↓
750-8208/025-001	23.01.2019	docx	20.47 KB	↓

Instruction Leaflet				
CCC Ex (Additional information)	26.04.2023	pdf	159.76 KB	↓

Application Notes

Application Note CoDeSys 2.3				
Application note for installing a MySQL-Server on a PFC-Controller	1.0.4 16.05.2019	zip	4392.22 KB	↓
Application note Cloud Connectivity	2019-09-17 17.09.2019	zip	3973.74 KB	↓
HART Tool Routing via ETHERNET with 750-820x/750-88x and CODESYS 2.3 (a116120)	1.0.0 22.03.2019	pdf	3798.36 KB	↓
HART Tool Routing via PROFIBUS with 750-833 and 750-333 (a116140)	1.0.0 22.03.2019	pdf	5214.96 KB	↓
Using the web visualization with Java™ runtime environment (JRE, JVM) 7 update 51 (7u51) (a500690)	1.2.4 26.02.2019	zip	4896.43 KB	↓

Application Note e!COCKPIT				
eCOCKPIT application note installation MySQL-Server	1.0.3 09.09.2019	pdf	1868.46 KB	↓
CODESYS 3 Application Note WagoAppCloud	2022-11-04 04.11.2022	zip	2678.52 KB	↓
HART Tool Routing via ETHERNET with 750-820x and e!RUNTIME (a116130)	1.0.0 22.03.2019	pdf	2867.01 KB	↓
SNMP Communication (a500850)	1.1.0 20.02.2020	zip	3743.05 KB	↓

CAD/CAE-Data

CAD data	CAE data
2D/3D Models 750-8208/025-001	EPLAN Data Portal 750-8208/025-001
	ZUKEN Portal 750-8208/025-001

Engineering-Software

Configuration and Commissioning Software			
WAGO-IO-PRO Demo-Version (759-912) / Serie 750, 758 und 762	V 2.3.9.68 17.02.2022	zip 122524.17 KB	
WAGUpload	1.16.1.0 02.02.2022	zip 12111.45 KB	

Runtime Software

Firmware			
Image Update (SD Karte) PFC100/200 für Codesys V2.3 u. Elcockpit	V 22 SP1 12.12.2022	zip 205815.20 KB	
WUP Update (WAGUploadTool) PFC100/200 Codesys V2.3 u. Elcockpit	V 22 SP1 12.12.2022	zip 203580.70 KB	

Libraries

Device Description File	Library
750-914; EDS file for CANopen / 750, 752 and 767 Series XT 12.03.2021 zip 1728.38 KB	Library WagoLib-Cloud_02.lib 2.2.4 21.01.2020 zip 56.21 KB

1 Compatible Products

1.1 Optional Accessories

1.1.1 Cables and connectors

1.1.1.1 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

1.1.1.1 Connector plug



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



Item No.: 750-975
 ETHERNET RJ-45 connector, IP20; ETHERNET 10/100 Mbit/s; for field assembly

Item No.: 750-963
 Fieldbus Connector CANopen; with D-sub female connector; 9-pole

Item No.: 750-960
 Fieldbus Connector PROFIBUS; with D-sub male connector; 9-pole

1.1.2 Communication

1.1.2.1 Communication cable



Item No.: 750-923/000-001
 Configuration cable; USB connector; Length: 5 m

1.1.3 DIN-rail

1.1.3.1 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.: 210-197
 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored



Item No.: 210-114
 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.: 210-113
 Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored

1.1.4 Marking

1.1.4.1 Group marker carrier



Item No.: 750-107
 Group marker carrier

1.1.4.2 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

1.1.4.2 Marker



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

1.1.4.3 Marker carrier



Item No.: 750-103
Group marker carrier

1.1.5 Memory card

1.1.5.1 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

1.1.6 Shield termination

1.1.6.1 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 System enclosure

1.1.8.1 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