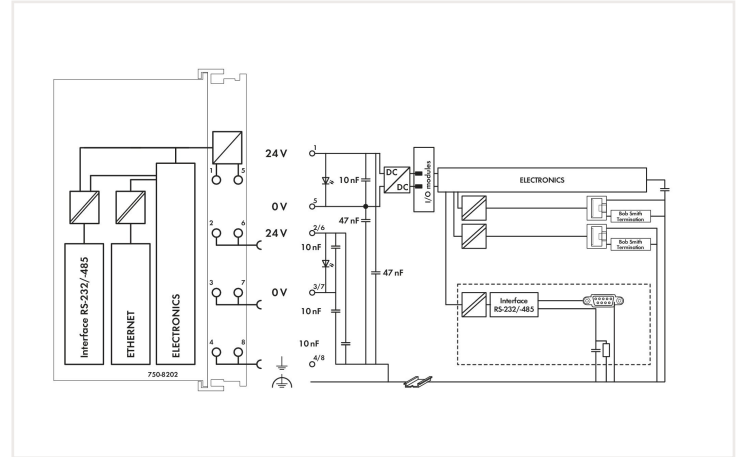
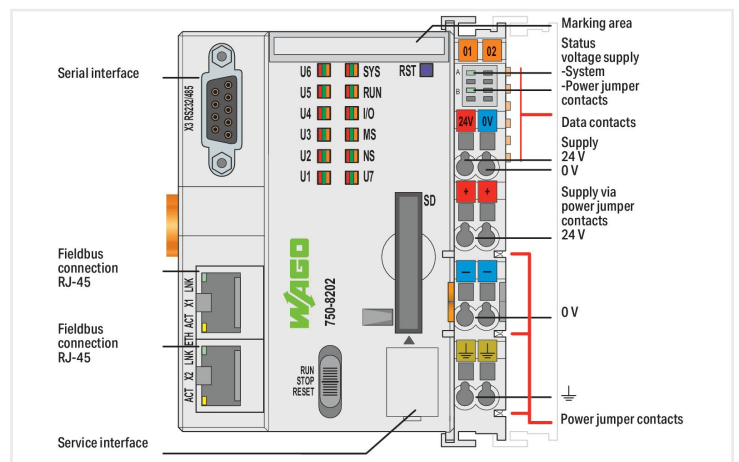




Application – Controller Allocation

digitalTAP™ with MTConnect	
flexROOM	
WAGO Lighting Management	
WAGO Energy Data Management	
Description	Item No.
PFC100; FG0; 2ETH	750-8101/000-010
PFC200; FG1; 2ETH RS	750-8202/000-011
PFC200; FG2; 2ETH RS	750-8202/000-012
PFC200; FGE; 2ETH RS	750-8202/000-022
PFC200; FGE; 2ETH RS 3G	750-8207/000-022



The controllers are designed for the processing of WAGO applications. You can identify these controllers by a special version of the item number. The application can be downloaded from the respective item on our website. Additional information can be obtained from the application documentation.

The controllers can also be used with their own applications as they offer all possibilities of the respective standard variant beyond the use of the WAGO application(s).

Programming per IEC 61131-3

- Programmable via WAGO-I/O-PRO V2.3 or **e!COCKPIT**
- Direct connection of WAGO's I/O modules
- 2 x ETHERNET (configurable), RS-232/485
- Linux operating system with RT-Preempt patch
- Configuration via CODESYS, **e!COCKPIT** or Web-Based Management interface
- Maintenance-free

Suitable software application:

- Machine Data Collection with MTConnect
- Lighting Management

Notes

Note	Download and register the software: Formular
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Technical data

Communication	Modbus (TCP, UDP) ETHERNET Modbus® RTU RS-232 serial interface RS-485 interface EtherNet/IP™ Adapter (slave), library for e!RUNTIME
ETHERNET protocols	DHCP DNS NTP FTP FTPS SNMP HTTP HTTPS SSH
Visualization	Web-Visu
Operating system	Real-time Linux (with RT-Preempt 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	e!COCKPIT (based on CODESYS V3) WAGO-I/O-PRO V2.3 (based on CODESYS V2.3)
Configuration options	e!COCKPIT WAGO-I/O-CHECK Web-Based Management
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)	256 MB
Internal memory (flash)	256 MB
Non-volatile hardware memory	128 KB
Program memory	CODESYS V2: 16 MB; e!RUNTIME: 60 MB (Program and data memory (dynamically distributed))
Data memory	CODESYS V2: 64 MB; e!RUNTIME: 60 MB Program and data memory (dynamically distributed)
Non-volatile software memory	128 KB 128 KB
Type of memory card	SD and SDHC up to 32 GB (all guaranteed properties only valid with WAGO 758-879/000-001 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
Indicators	LED (SYS, RUN, I/O, U1 ... U7) red/green/orange: Status of system, program, local data bus, status programmable by user (can be used via CODESYS library); LED (A, B) green: Status of system power supply, field supply
Supply voltage (system)	24 VDC (-25 ... +30 %); via pluggable connector (CAGE CLAMP® connection)
Input current (typ.) at nominal load (24 V)	550 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	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 mm² / 28 ... 14 AWG
Fine-stranded conductor	0.08 ... 2.5 mm² / 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	78.6 mm / 3.094 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

Weight	208.2 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	2.496 MJ
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

eCl@ss 10.0	27-24-26-07
eCl@ss 9.0	27-24-26-07
ETIM 8.0	EC000236
ETIM 7.0	EC000236
PU (SPU)	1 Stück
Packaging type	Box
Country of origin VKOrg Germany	DE
GTIN	4055143544610
Customs tariff number VKOrg Germany	85371091990



Approvals and certificates

Ex-Approvals



Approval	Standard	Certificate name
ATEX TUEV Nord Cert GmbH	EN 60079-0	
CCCEX CQST/CNEX	CNCA-C23-01	2020312310000213 (Ex nA 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	BR-Ex_TUV 12.1297 X
UL Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)	UL 121201	E198726 Sec.1

Country specific Approvals



Approval	Standard	Certificate name
EAC Brjansker Zertifizierungsstelle	TP TC 020/2011	EAC RU C-DE.AM02. B.00087/19
KC National Radio Research Agency	Article 58-2, Clause 3	MSIP-REM-W43-PFC750

Ship Approvals



Approval	Standard	Certificate name
ABS American Bureau of Shipping	-	22-2219060
BSH Bundesamt fuer Seeschifffahrt und Hydrographie	-	1104
DNV DNV Germany GmbH	DNV-CG-0339,Aug.2021	TAA0000194
LR Lloyds Register EMEA	-	LR22180952TA
PRS Polski Rejestr Statków	-	TE/2236/880590/19

UL-Approvals



Approval	Standard	Certificate name
UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 508	E175199 Sec.1

Downloads

Environmental Product Compliance

Compliance Search
Environmental Product Compliance 750-8202/000-012



Documentation

Manual			
PFC200 FGx 2ETH RS	V 1.2.0 15.11.2019	pdf 4873.26 KB	↓
Cyber Security for Controller PFC100 / PFC200	V 1.2.0	pdf 8128.80 KB	↓
Documentation Lighting Management	2.1.1 20.04.2022	pdf 8487.89 KB	↓
Visualization Lighting Management	1.2.0 20.04.2022	pdf 2996.46 KB	↓
System Manual WAGO I/O System 750 / 753	V 3.1.0 11.05.2022	pdf 8495.90 KB	↓
System Manual Series 750/753			↓

System Description

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

Additional Information

750-8202/000-012, WAGO Lighting Management		pdf 929.73 KB	↓
Wiring-Instructions	2.0 21.09.2021	pdf 2571.33 KB	↓
Drawing Lighting Management maximum expansion	19.06.2018	pdf 1168.50 KB	↓
Drawing Lighting Management minimum expansion	19.06.2018	pdf 464.61 KB	↓
Disposal; Electrical and electronic equipment, Packaging	V 1.0.0	pdf 259.56 KB	↓
WAGO OPC UA Server	V 1.1.0 28.01.2021	pdf 1132.87 KB	↓

Instruction Leaflet

Beipackzettel Applikationscontroller	pdf 415.00 KB	↓
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Compatibility Information

Compatibility List DALI Sensors	V 1.2.0 24.09.2020	pdf 499.67 KB	↓
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Tutorial

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	↓
Installation Tutorial Application Controller		mp4 29848.12 KB	↓

Bid Text

Tender text Lighting Management		doc 78.50 KB	↓
750-8202/000-012	19.02.2019	xml 7.71 KB	↓
750-8202/000-012	10.01.2019	docx 23.01 KB	↓

Application Notes

Application Note CoDeSys 2.3				Application Note e!COCKPIT			
Application note for installing a MySQL-Server on a PFC-Controller	V 1.0.4 16.05.2019	zip 4392.22 KB	↓	eCOCKPIT application note installation MySQL-Server	1.0.3 09.09.2019	pdf 1868.46 KB	↓

CAD/CAE-Data

CAD data		CAE data	
2D/3D Models 750-8202/000-012	↓	EPLAN Data Portal 750-8202/000-012	↓
		WSCAD Universe 750-8202/000-012	↓
		ZUKEN Portal 750-8202/000-012	↓

Runtime Software

Firmware			
Image Update (SD Karte) PFC100/200	V 21 04.04.2022	zip 200475.83 KB	↓
WUP Update (WAGOuploadTool) PFC100/200	V 21 04.04.2022	zip 198347.19 KB	↓

Device Files

Device Driver			
KNX Interface Lighting Management	29.01.2018	zip 2.03 KB	↓

Libraries

Library			
WagoLibFTPS_01	V 1.15 14.01.2019	zip 406.70 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 Application

1.1.1.1 Analog input



[Item no.: 750-495/000-002](#)

3-Phase Power Measurement; 690 VAC
Rogowski coils



[Item no.: 750-495](#)

3-Phase Power Measurement; 690 VAC, 1
A



[Item no.: 750-495/000-001](#)

3-Phase Power Measurement; 690 VAC, 5
A

1.1.1.2 Bus end module



[Item no.: 750-600](#)

End Module

1.1.1.3 DALI interface



[Item no.: 753-647](#)

DALI Multi-Master

1.1.1.4 Digital input



[Item no.: 750-1405](#)

16-channel digital input; 24 VDC; 3 ms

1.1.1.5 Digital output



[Item no.: 750-1504](#)

16-channel digital output; 24 VDC; 0.5 A

1.1.1.6 KNX interface



[Item no.: 753-646](#)

KNX/EIB/TP1 Interface

1.1.1.7 Power measurement



[Item no.: 750-495/000-002](#)

3-Phase Power Measurement; 690 VAC
Rogowski coils



[Item no.: 750-495](#)

3-Phase Power Measurement; 690 VAC, 1
A



[Item no.: 750-495/000-001](#)

3-Phase Power Measurement; 690 VAC, 5
A

1.1.1.8 RTC module



[Item no.: 750-640](#)

Real-time clock Module

1.1.1.9 Serial interface



Item no.: 750-652

RS-232/485 Serial Interface

1.1.2 Communication

1.1.2.1 Bluetooth



Item no.: 750-921

Bluetooth® Adapter

1.1.2.2 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

1.1.2.3 EnOcean



Item no.: 2852-7102

SRE Repeater with ext. ant. / EasySens
Radio Repeater



Item no.: 2852-7101

STC65 RS-485 EVC EnOcean Receiver/
Transmitter with RS-485 EVC interface

1.1.2.4 General accessories



Item no.: 2852-7901

GPS DCF Converter UTC±

1.1.3 Current transformer

1.1.3.1 Current transformer terminal block



Item no.: 2007-8874

Compact terminal block; for current and
voltage transformers; 6,00 mm²; multico-
loured



Item no.: 2007-8877

Compact terminal block; for current trans-
former circuit; 6,00 mm²; multicoloured

1.1.4 Memory card

1.1.4.1 Memory card



Item no.: 758-879/000-001

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

1.1.5 Power supply

1.1.5.1 Power supply unit



Item no.: 787-1112

Switched-mode power supply; Compact;
1-phase; 24 VDC output voltage; 2.5 A
output current; DC-OK LED



Item no.: 787-1007

Switched-mode power supply; for DALI
module (753-647); 1-phase; 18 VDC out-
put voltage; 1.1 A output current; 2,50
mm²

1.1.6 Radio transmitter

1.1.6.1 EnOcean



Item no.: 758-940/001-000

Radio transmitter; EnOcean easyfit PTM
250; 2-channel lighting control



Item no.: 758-940/003-000

Radio transmitter; EnOcean easyfit PTM
250; 4-channel lighting control

1.1.7 Relay module

1.1.7.1 Relay module



Item no.: 788-304

Relay module; Nominal input voltage: 24
VDC; 1 changeover contact; Limiting con-
tinuous current: 16 A; Red status indica-
tor; Module width: 15 mm; 2,50 mm²; gray



Item no.: 788-357

Relay module; Nominal input voltage: 24
VDC; 1 make contact; Limiting continuous
current: 16 A; Red status indicator; Modu-
le width: 15 mm

1.1.8 Sensors

1.1.8.1 Sensor



Item no.: 2852-7208

4p4c connection cable, 50 cm



Item no.: 2852-7207

DALI HIGHBAY ADAPTER / Control units
for light management systems



Item no.: 2852-7203

DALI LS/PD LI / Control units for light ma-
nagement systems



Item no.: 2851-8202

DALI sensor coupler



Item no.: 2852-7204

DALI Sensor Coupler E / DALI sensor
coupler for external sensors



Item no.: 2852-7205

DALI Sensor Coupler HF LS LI / DALI
coupler for radar sensor HF LS LI



Item no.: 2852-7301

DALI XC Control Module with 4 freely pro-
grammable inputs



Item no.: 2852-7206

HF LS LI / Control units for light manage-
ment systems



Item no.: 2852-7201

HIGH BAY / Stand-alone motion sensors
with switching contact



Item no.: 2852-7202

VISION / Stand-alone motion sensors
with switching contact



Item no.: 2851-8201

WAGO DALI Multi-Sensor Kit

