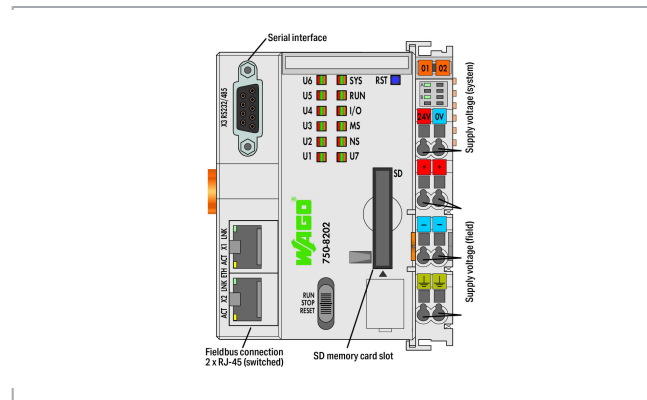
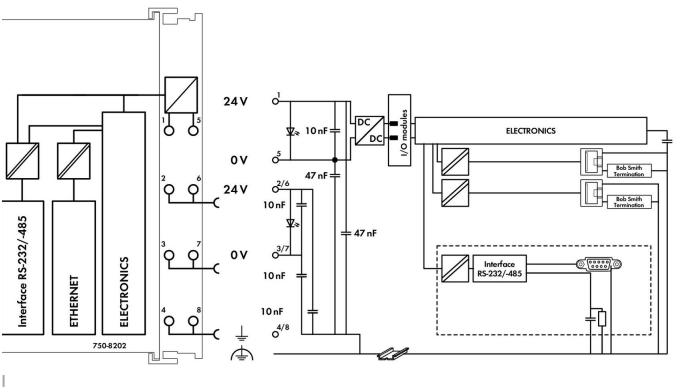
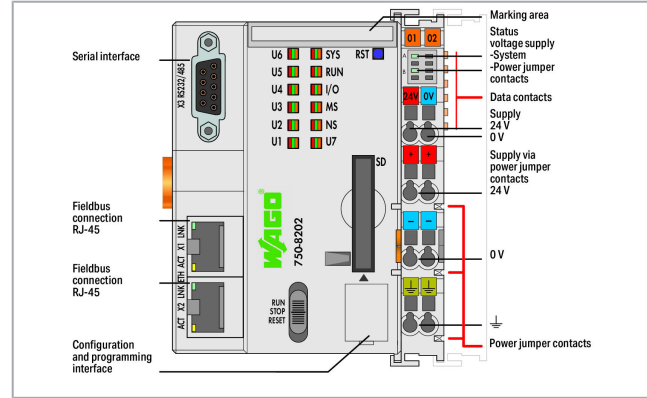
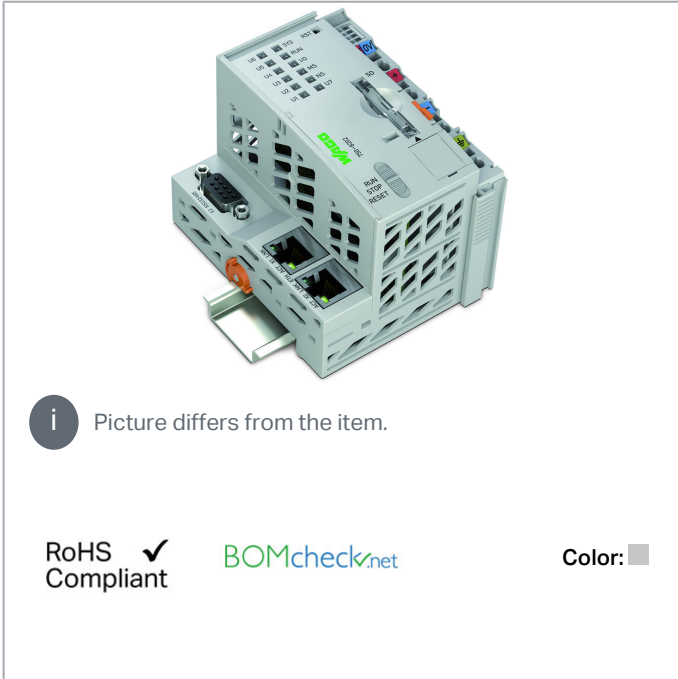


Data sheet | Item number: 750-8202/000-011
 Controller PFC200; FG1; 2 x ETHERNET, RS-232/-485



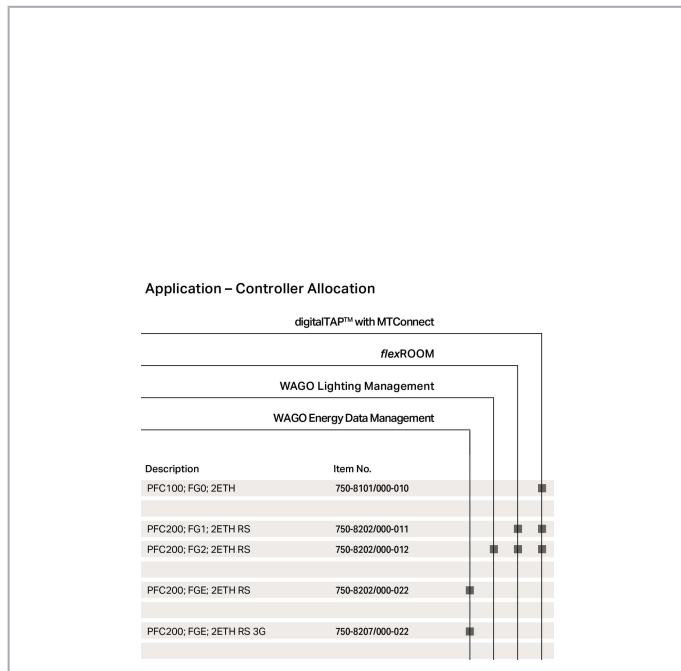
www.wago.com/750-8202/000-011



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Item description

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 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
- Room management with flexROOM®

Note:

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Download and register the software: Formular

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
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 Kbytes
Program memory	CODESYS V2: 16 MB; e!RUNTIME: 60 MB (Program and data memory (dynamically distributed))

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Data memory	CODESYS V2: 64 MB; e!RUNTIME: 60 MB Program and data memory (dynamically distributed)
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 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 (internal) process image (max.)	1000 Worte/1000 Worte
Input and output (MODBUS) process image (max.)	CODESYS V2: 1000 Worte/1000 Worte
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)	1,700 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 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: device configuration	1 x Male connector; 4-pole

Physical data

Width	78.6 mm / 3.094 inch
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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	212 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
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	4g 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	1.517 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

Packaging type	BOX
Country of origin	DE
GTIN	4055143544313
Customs tariff number	85371091990

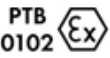



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Approvals / Certificates

Ex-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	ATEX TUEV Nord Cert GmbH	EN 60079-0	TUEV_14_ATEX_148929_X
 Ex nA IIC T4 Gc	CCCEx CQST/CNEx	CNCA-C23-01	2020312310000213
	IECEX TUEV Nord Cert GmbH	IEC 60079-0	IECEX_TUN_14.0035_X
	UL Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)	UL 121201	E198726 Sec.1

Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	KC National Radio Research Agency	Article 58-2, Clause 3	MSIP-REM-W43-PFC750

Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
	ABS American Bureau of Shipping	-	19-HG1821926
	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAA0000194
	LR Lloyds Register	-	02/20026 (E6)


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TE/2236
/880590/19

UL-Approvals






Logo	Approval	Additional Approval Text	Certificate name
	UL UL International Netherlands B.V. (ORDINARY LOCATIONS)	UL 508	E175199 Sec.1

Compatible products

application

	Item no.: 750-1405 16-channel digital input; 24 VDC; 3 ms; light gray	www.wago.com/750-1405
	Item no.: 750-1504 16-channel digital output; 24 VDC; 0.5 A; light gray	www.wago.com/750-1504
	Item no.: 750-600 End Module; light gray	www.wago.com/750-600
	Item no.: 750-652 RS-232/485 Serial Interface; light gray	www.wago.com/750-652
	Item no.: 753-647 DALI Multi-Master; light gray	www.wago.com/753-647

General accessories

	Item no.: 2852-7101 STC65 RS-485 EVC EnOcean Receiver/Transmitter with RS-485 EVC interface	www.wago.com/2852-7101
	Item no.: 2852-7112 SR04-P Room Control Unit, radio, wall, EnOcean	www.wago.com/2852-7112
	Item no.: 2852-7113 SR06 LCD Room Control Unit, radio, in-wall, EnOcean, 2 buttons	www.wago.com/2852-7113
	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

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

www.wago.com/750-923/000-001



Item no.: 758-940/001-000
Radio transmitter; EnOcean easyfit PTM 250; 2-channel lighting control

www.wago.com/758-940/001-000



Item no.: 758-940/002-000
Radio transmitter; EnOcean easyfit PTM 250; 2-channel blind control

www.wago.com/758-940/002-000



Item no.: 758-940/003-000
Radio transmitter; EnOcean easyfit PTM 250; 4-channel lighting control

www.wago.com/758-940/003-000



Item no.: 758-940/004-000
Radio transmitter; EnOcean easyfit PTM 250

www.wago.com/758-940/004-000



Item no.: 788-304
Relay module; Nominal input voltage: 24 VDC; 1 changeover contact; Limiting continuous current: 16 A; Red status indicator; Module width: 15 mm; 2,50 mm²; gray www.wago.com/788-304



Item no.: 788-354
Relay module; Nominal input voltage: 24 VDC; 1 changeover contact; Limiting continuous current: 16 A; Red status indicator; Module width: 15 mm; 2,50 mm²; gray www.wago.com/788-354



Item no.: 788-357
Relay module; Nominal input voltage: 24 VDC; 1 make contact; Limiting continuous current: 16 A; Red status indicator; Module width: 15 mm www.wago.com/788-357

sensors



Item no.: 2851-8201
WAGO DALI Multi-Sensor Kit

www.wago.com/2851-8201



Item no.: 2851-8202
DALI sensor coupler

www.wago.com/2851-8202



Item no.: 2851-8301
DALI MSensor 02 5DPI 41rc (Ceiling Installation)

www.wago.com/2851-8301



Item no.: 2851-8302
DALI MSensor 02 5DPI 41W (Box installation)













www.wago.com/2851-8302



Item no.: 2851-8303
DALI MSensor 02 5DPI 41rs (Surface Installation)

www.wago.com/2851-8303

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	Item no.: 2852-7201 HIGH BAY / Stand-alone motion sensors with switching contact	www.wago.com/2852-7201
	Item no.: 2852-7202 VISION / Stand-alone motion sensors with switching contact	www.wago.com/2852-7202
	Item no.: 2852-7203 DALI LS/PD LI / Control units for light management systems	www.wago.com/2852-7203
	Item no.: 2852-7204 DALI Sensor Coupler E / DALI sensor coupler for external sensors	www.wago.com/2852-7204
	Item no.: 2852-7205 DALI Sensor Coupler HF LS LI / DALI coupler for radar sensor HF LS LI	www.wago.com/2852-7205
	Item no.: 2852-7206 HF LS LI / Control units for light management systems	www.wago.com/2852-7206
	Item no.: 2852-7207 DALI HIGHBAY ADAPTER / Control units for light management systems	www.wago.com/2852-7207
	Item no.: 2852-7208 4p4c connection cable, 50 cm	www.wago.com/2852-7208
	Item no.: 2852-7301 DALI XC Control Module with 4 freely programmable inputs	www.wago.com/2852-7301
power supply		
	Item no.: 753-620 DALI Multi-Master DC/DC Converter; -	www.wago.com/753-620
	Item no.: 787-1012 Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 2.5 A output current	www.wago.com/787-1012
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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Downloads

Documentation

Manual

Quickstart Reference flexROOM® Office Application This quick start guide describes the basic functions of the flexROOM® Office application and serves as a quick introduction to sunblind, light and HVAC configuration with flexROOM®.	V 1.1.0	pdf 1.5 MB	Download
PFC200 FGx 2ETH RS Controller PFC200; FGx; 2 x ETHERNET, RS-232/-485	V 1.2.0 15. 11. 2019	pdf 5.0 MB	Download
Cyber Security for Controller PFC100 / PFC200	V 1.2.0	pdf 8.3 MB	Download
Systemhandbuch WAGO I/O System 750 / 753 Dezentrale Automatisierungstechnik	V 3.0.0 4. 3. 2021	pdf 6.6 MB	Download

Bid Text

750-8202/000-011 X81 - Datei	19. 2. 2019	xml 7.5 kB	Download
750-8202/000-011 docx - Datei	10. 1. 2019	docx 24.8 kB	Download

Instruction Leaflet

Beipackzettel Applikationscontroller Beipackzettel mit dem Hinweis auf den Download der Software		pdf 425.0 kB	Download
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Tutorial

Set IP address with Ethernet Settings In this video we are demonstrating how you can set a IP address with Ethernet Settings. Content: 00:27 – Chapter #1 Download and install software; 00:56 – Chapter #2 Open Ethernet Settings; 01:10 – Chapter #3 Establish serial Connection; 01:34 – Chapter #4 Set IP address; 02:10 – Chapter #5 Check IP address	3.0 18. 12. 2017	mp4 88.3 MB	Download
Installation Tutorial Application Controller Video on the installation of the Lighting Management software on the application controller		mp4 30.6 MB	Download
Establish connection to a controller using SSH Subject to changes. Please also observe the further product documentation!	1.0	mp4	Download



In this video we are demonstrating how to establish a SSH connection with a controller using for example PuTTY to be able to work with the LINUX console. Contents: 0:21 Download and install the SSH client; 0:40 Establish the SSH connection; 0:50 Log on to the Controller

5. 8. 2017

29.0 MB

System Description

Overview on WAGO-I/O-SYSTEM 750 approvals		pdf 780.2 kB	Download
Controller PFC100/200, General Product Information		pdf 591.2 kB	Download

Additional Information

Disposal; Electrical and electronic equipment, Packaging	V 1.0.0	pdf 265.8 kB	Download
WAGO OPC UA Server	V 1.1.0 28. 1. 2021	pdf 1.2 MB	Download

Compatibility Information

Compatibility List DALI Sensors This application note shows all DALI Sensors which are compatible with CODESYS V2.3 applications, e!Cockpit applications, the WAGO Lighting Management software, the WAGO flexROOM®software and the WAGO DALI Configurator.	V 1.2.0 24. 9. 2020	pdf 511.7 kB	Download
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Application Notes

Application Note CoDeSys 2.3

Application note for installing a MySQL-Server on a PFC-Controller This Application Note explains how a MySQL-Server can be set up and used on a PFC 200. The Application shows how measurement values of the 3-Phase Power Measurement Module can be written into a database.	V 1.0.4 16. 5. 2019	zip 4.5 MB	Download
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Application Note Data Plotter The Data Plotter is a Web application that can be used as a visualization tool for the data logger in CODESYS V2.3 and e!COCKPIT. It allows the user to graphically display data captured by the data logger library (WAGO_Datalogger_02.lib for CODESYS V2.3 and WagoAppDatalogger for e!COCKPIT from V1.2.100.6023).	2020-09-17 17. 9. 2020	zip 6.7 MB	Download
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Application Note e!COCKPIT

eCOCKPIT application note installation MySQL-Server	2019-09-09	pdf	Download
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This Application Note explains how a MySQL-Server can be set up and used on a PFC 9. 9. 2019 200. The Application shows how measurement values of the 3-Phase Power Measurement Module can be written into a database.

1.9 MB

Application Note Data Plotter	2020-09-17	zip	Download
The Data Plotter is a Web application that can be used as a visualization tool for the data logger in CODESYS V2.3 and e!COCKPIT. It allows the user to graphically display data captured by the data logger library (WAGO_Datalogger_02.lib for CODESYS V2.3 and WagoAppDatalogger for e!COCKPIT from V1.2.100.6023).	17. 9. 2020	6.7 MB	

Libraries

Library

WagoLibFTPS_01	V 1.15	zip	Download
This library provides a function block for FTP and FTPS communication. FTPS supports explicit and implicit TLS encryption: - Explicit FTP over TLS: Client explicitly asks for TLS encryptions by issuing the command "AUTH TLS" (Described in RFC4217) - Implicit FTP over TLS: Client tries to establish an TLS connection immediately.	14. 1. 2019	416.5 kB	

Library WagoLibCloud_02.lib	V2.2.4	zip	Download
Die Bibliothek dient zur Kommunikation des WAGO Controller PFC100 und PFC200 mit Cloud Diensten wie Microsoft Azure (WAGO Cloud), Amazon AWS and IBM Bluemix. Daten können zur Cloud gesendet und Kommandos von der Cloud empfangen werden.	21. 1. 2020	57.6 kB	

Runtime Software

Firmware

Firmware: 750-8202/000-011 Controller PFC200; FG1; 2 x ETHERNET, RS-232/-485	18	zip	Download
	22. 12. 2020	117.8 MB	

Software Solutions (Applications)

Room Automation

Application <i>flexROOM</i> [®]	2020-09-17	ZIP	Download
<i>flexROOM</i> [®] is our scalable room automation solution and is especially appropriate for medium-sized and large office and administrative buildings – whether for new construction or modernizing energy systems.	17. 9. 2020	70.5 MB	

flexROOM[®] is our scalable room automation solution and is especially appropriate for medium-sized and large office and administrative buildings – whether for new construction or modernizing energy systems.

All the relevant room functions of the building systems for lighting, sun protection and room climate control are covered. Thus *flexROOM*[®] provides the basis for

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achieving energy efficiency class A per EN 15232 and supports the certification of your building as a sustainable green building, e.g., per national and international system like DGNB or LEED.

CAD/CAE-Data

CAE data

EPLAN Data Portal 750-8202/000-011	URL	Download
WSCAD Universe 750-8202/000-011	URL	Download
EPLAN Data Portal 750-8202/000-011	URL	Download
WSCAD Universe 750-8202/000-011	URL	Download

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 750-8202/000-011 Controller PFC200; FG1; 2 x ETHERNET, RS-232/-485	URL	Download
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Installation Notes

Product family

Controller 750

[Show all products from the family](#)

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