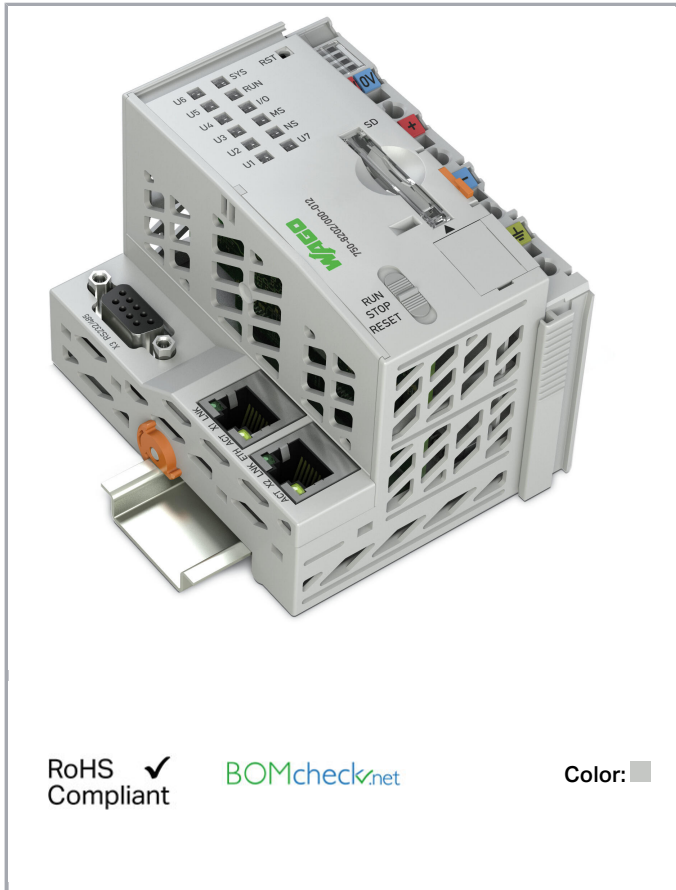


Data sheet | Item number: 750-8202/000-012

Controller PFC200; FG2; 2 x ETHERNET, RS-232/-485; light gray

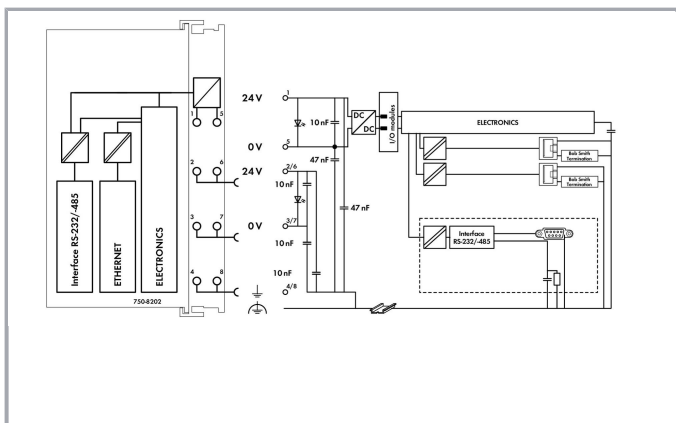
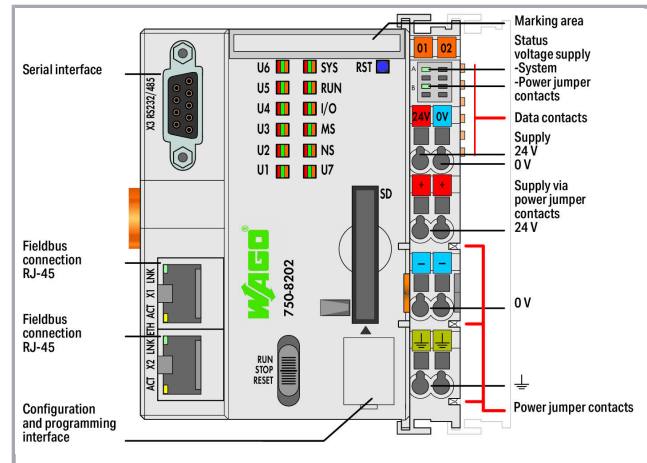
www.wago.com/750-8202/000-012



RoHS
Compliant

BOMcheck.net

Color:



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

WAGO Pty. Ltd.
2-4 Overseas Drive
Noble Park Victoria 3174
Tel.: +61 (0)3 8791 6300 | Fax: +61 (0)3 9701 0177
Email: sales.anz@wago.com

Do you have any questions about our products?
We are always happy to take your call at +61 (0)3 8791 6300.



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

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
- Lighting management

Note:

Download and register the software: Formular

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

WAGO Pty. Ltd.
2-4 Overseas Drive
Noble Park Victoria 3174
Tel.: +61 (0)3 8791 6300 | Fax: +61 (0)3 9701 0177
Email: sales.anz@wago.com

Do you have any questions about our products?
We are always happy to take your call at +61 (0)3 8791 6300.



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))
Data memory	CODESYS V2: 64 MB; e!RUNTIME: 60 MB Program and data memory (dynamically distributed)

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

WAGO Pty. Ltd.
2-4 Overseas Drive
Noble Park Victoria 3174
Tel.: +61 (0)3 8791 6300 | Fax: +61 (0)3 9701 0177
Email: sales.anz@wago.com

Do you have any questions about our products?
We are always happy to take your call at +61 (0)3 8791 6300.



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.)	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)	DC 24 V (-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)	DC 24 V (-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: Device configuration	1 x Male connector; 4-pole

Geometrical Data

Width	78,6 mm / 3.094 inch
Height	71,9 mm / 2.831 inch
Height from upper-edge of DIN-rail	64,7 mm / 2.547 inch
Depth	100 mm / 3.937 inch

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

WAGO Pty. Ltd.
2-4 Overseas Drive
Noble Park Victoria 3174
Tel.: +61 (0)3 8791 6300 | Fax: +61 (0)3 9701 0177
Email: sales.anz@wago.com

Do you have any questions about our products?
We are always happy to take your call at +61 (0)3 8791 6300.



Mechanical data

Color	light gray
Housing material	Polycarbonate, polyamide 6.6
Conformity marking	CE

Environmental Requirements

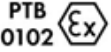
Surrounding air temperature (operation)	0 ... 55 °C
Surrounding air temperature (storage)	-40 ... 85 °C
Protection type	IP20
Pollution degree (5)	2 per IEC 61131-2
Operating altitude	without temperature derating: 0 ... 2000 m; with temperature derating: 2000 ... 5000 m (0.5 K/100 m); 5000 m (max.)
Relative humidity (without condensation)	95 %
Mounting position	any
Mounting type	DIN-35 rail
Vibration resistance	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

Packaging type	BOX
GTIN	4055143544610

Approvals / Certificates

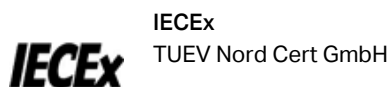
Ex-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	ATEX TUEV Nord Cert GmbH	EN 60079-0	TUEV_14_ATEX_148929_X

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

WAGO Pty. Ltd.
2-4 Overseas Drive
Noble Park Victoria 3174
Tel.: +61 (0)3 8791 6300 | Fax: +61 (0)3 9701 0177
Email: sales.anz@wago.com

Do you have any questions about our products?
We are always happy to take your call at +61 (0)3 8791 6300.



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)
	PRS Polski Rejestr Statków	-	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

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

WAGO Pty. Ltd.
 2-4 Overseas Drive
 Noble Park Victoria 3174
 Tel.: +61 (0)3 8791 6300 | Fax: +61 (0)3 9701 0177
 Email: sales.anz@wago.com

Do you have any questions about our products?
 We are always happy to take your call at +61 (0)3 8791 6300.

Counterpart

Compatible products

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.: 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

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



Item no.: 2852-7301
DALI XC Control Module with 4 freely programmable inputs

www.wago.com/2852-7301

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

General accessories



Item no.: 2007-8874
Compact terminal block; for current and voltage transformers; 6,00 mm²; multicoloured

www.wago.com/2007-8874

Item no.: 2007-8877
Compact terminal block; for current transformer circuit; 6,00 mm²; multicoloured

www.wago.com/2007-8877

Item no.: 2852-7101
STC65 RS-485 EVC EnOcean Receiver/Transmitter with RS-485 EVC interface

www.wago.com/2852-7101

Item no.: 2852-7102
SRE Repeater with ext. ant. / EasySens Radio Repeater

www.wago.com/2852-7102

Item no.: 2852-7901
GPS DCF Converter UTC±

www.wago.com/2852-7901



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.: 758-940/001-000
Radio transmitter; EnOcean easyfit PTM 250; 2-channel lighting control

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



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.: 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.: 788-357

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

WAGO Pty. Ltd.
2-4 Overseas Drive
Noble Park Victoria 3174
Tel.: +61 (0)3 8791 6300 | Fax: +61 (0)3 9701 0177
Email: sales.anz@wago.com

Do you have any questions about our products?
We are always happy to take your call at +61 (0)3 8791 6300.



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

power supply



Item no.: 787-1007

Switched-mode power supply; for DALI module (753-647); 1-phase; 18 VDC output voltage; 1.1 A output current; 2,50 mm² www.wago.com/787-1007



Item no.: 787-1112

Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 2.5 A output current; DC OK signal www.wago.com/787-1112

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.: 750-495

3-Phase Power Measurement; 690 VAC, 1 A; light gray

www.wago.com/750-495



Item no.: 750-495/000-001

3-Phase Power Measurement; 690 VAC, 5 A; light gray

www.wago.com/750-495/000-001



Item no.: 750-495/000-002

3-Phase Power Measurement; 690 VAC Rogowski coils; light gray

www.wago.com/750-495/000-002

Item no.: 750-600

End Module; light gray

www.wago.com/750-600



Item no.: 750-640

Real-time clock Module; light gray

www.wago.com/750-640

Item no.: 750-652

RS-232/485 Serial Interface; light gray

www.wago.com/750-652



Item no.: 753-646

KNX/EIB/TP1 Interface; light gray

www.wago.com/753-646



Item no.: 753-647

DALI Multi-Master; light gray

www.wago.com/753-647

Downloads

Documentation

Manual

Cyber Security for Controller PFC100 / PFC200

V 1.2.0

pdf
8.3 MB

Download

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

WAGO Pty. Ltd.
2-4 Overseas Drive
Noble Park Victoria 3174
Tel.: +61 (0)3 8791 6300 | Fax: +61 (0)3 9701 0177
Email: sales.anz@wago.com

Do you have any questions about our products?
We are always happy to take your call at +61 (0)3 8791 6300.



PFC200 FGx 2ETH RS Controller PFC200; FGx; 2 x ETHERNET, RS-232/-485	V 1.2.0 2019.11.15.	pdf 5.0 MB	Download
Documentation Lighting Management WAGO Lighting Management is the refined solution for lighting control in large spaces such as production facilities and warehouses. Using a combination of predefined hardware and user-friendly software, WAGO offers a lighting management system that facilitates design and commissioning of new lighting systems while providing numerous additional advantages for their operation.	V 1.1.3.0 2019.10.10.	pdf 7.9 MB	Download
Visualization Lighting Management The WAGO Lighting Management visualization is an independent, Web-based user interface for operating and monitoring the lighting management software on a lighting management controller. With its responsive design, the visualization adapts to the resolution of all devices, making it suitable for display on a desktop PC, or for tablets, smartphones and WAGO Touch Panels.	V 0.8.0.0 2019.10.10.	pdf 1.9 MB	Download
Instruction Leaflet			
Beipackzettel Applikationscontroller Beipackzettel mit dem Hinweis auf den Download der Software		pdf 425.0 kB	Download
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 2017.12.18.	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 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	1.0 2017.08.05.	mp4 29.0 MB	Download
System Description			
Controller PFC100/200, General Product Information		pdf 591.2 kB	Download
Design Notes	V 2.0.0	pdf	Download
Subject to changes. Please also observe the further product documentation!			



Basic conditions and recommendations for higher operational safety	1.5 MB	
Overview on WAGO-I/O-SYSTEM 750 approvals	pdf 780.2 kB	Download

Compatibility Information

Compatibility List DALI Sensors	V 1.1.18	pdf	Download
This application note shows all DALI Sensors which are compatible with CODESYS V2. 2020.04.15. 3 applications, e!Cockpit applications, the WAGO Lighting Management software, the WAGO flexROOM®software and the WAGO DALI Configurator.		1.3 MB	

Application Notes

Application Note CoDeSys 2.3

Application note for installing a MySQL-Server on a PFC-Controller	V 1.0.4	zip	Download
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.	2019.05.16.	4.5 MB	

Application Note Data Plotter	V 2020-06-16	zip	Download
The Data Plotter is a Web application that can be used as a visualization tool for the data logger. 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).	2020.06.16.	7.4 MB	

Application Note e!COCKPIT

eCOCKPIT application note installation MySQL-Server	2019-09-09	pdf	Download
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.	2019.09.09.	1.9 MB	

Libraries

Library

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.	2020.01.21.	57.6 kB	
WagoLibFTPS_01	V 1.15	zip	Download

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

WAGO Pty. Ltd.
 2-4 Overseas Drive
 Noble Park Victoria 3174
 Tel.: +61 (0)3 8791 6300 | Fax: +61 (0)3 9701 0177
 Email: sales.anz@wago.com

Do you have any questions about our products?
 We are always happy to take your call at +61 (0)3 8791 6300.



416.5 kB

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.

Software Solutions (Applications)

Lighting management

Software for Application Controller Lighting Management	V 2019-10-10 2019.10.10.	ZIP 138.1 MB	Download
---	-----------------------------	-----------------	----------

CAD/CAE-Data

CAD data

2D/3D Models 750-8202/000-012	URL	Download
-------------------------------	-----	----------

CAE data

EPLAN Data Portal 750-8202/000-012	URL	Download
------------------------------------	-----	----------

WSCAD Universe 750-8202/000-012	URL	Download
---------------------------------	-----	----------

Device Files

Device Driver

KNX Interface Lighting Management	2018.01.29.	zip 2.1 kB	Download
KNX interface description for ETS			

Handling Instructions

Product family

Controller 750

[Show all products from the family](#)

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

WAGO Pty. Ltd.
2-4 Overseas Drive
Noble Park Victoria 3174
Tel.: +61 (0)3 8791 6300 | Fax: +61 (0)3 9701 0177
Email: sales.anz@wago.com

Do you have any questions about our products?
We are always happy to take your call at +61 (0)3 8791 6300.