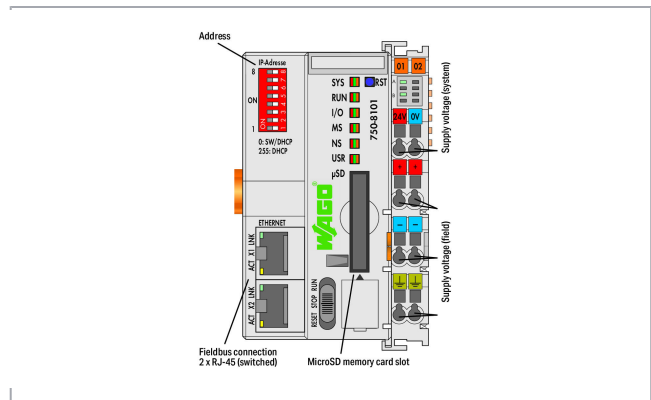
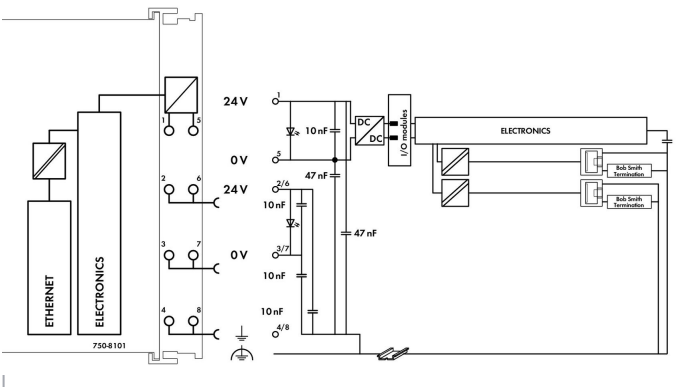
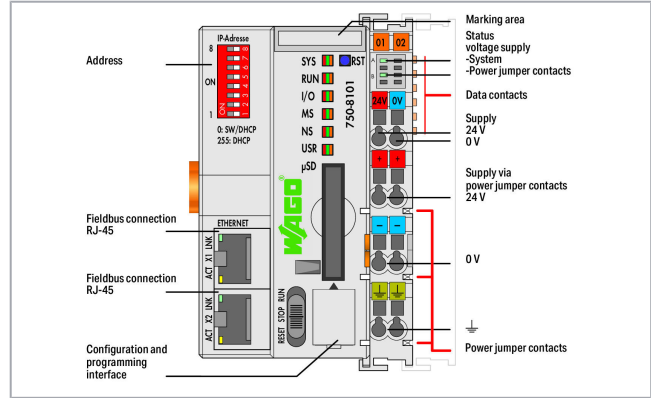
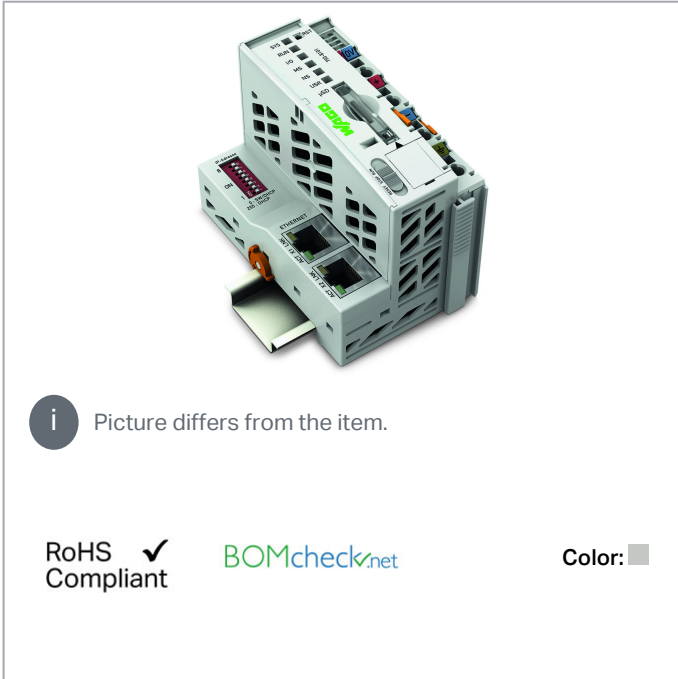


Data sheet | Item number: 750-8101/000-010
 Controller PFC100; FG0; 2 x ETHERNET; light gray



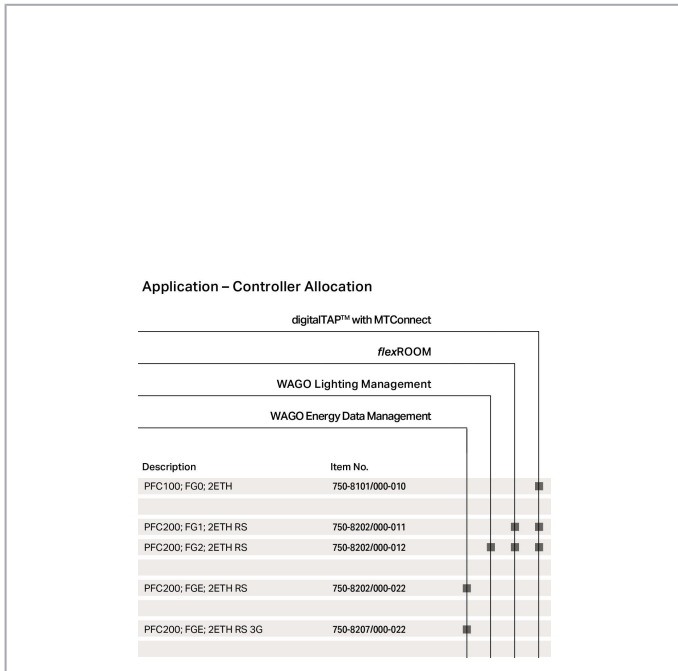
www.wago.com/750-8101/000-010



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

WAGO Kontakttechnik GmbH & Co. KG
 Hansastr. 27
 32423 Minden
 Phone: +49571 887-0 | Fax: +49571 887-169
 Email: info.de@wago.com | Web: www.wago.com

Do you have any questions about our products?
 We are always happy to take your call at +49 (571) 887-44222.



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 using the WAGO application(s).

Programming per IEC 61131-3

- Programmable via *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 *e!COCKPIT* or Web-Based Management interface
- Maintenance-free

Suitable software application:

- Machine Data Collection with MTConnect

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



Data

Technical data

Communication	Modbus (TCP, UDP) Ethernet 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 3.18 (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)
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	64 Kbytes
Program memory	12 MB (Program and data memory (dynamically distributed))
Data memory	12 MB Program and data memory (dynamically distributed)
Non-volatile software memory	64. Kbytes
Memory card type	microSD 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

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



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.)	; e!RUNTIME: 32000 Worte
Indicators	LED (SYS, RUN, I/O, USR) 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
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	61.5 mm / 2.421 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	154.2 g
Color	light gray
Housing material	Polycarbonate; polyamide 6.6
Conformity marking	CE

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

Environmental requirements

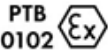
Surrounding air temperature (operation)	0 ... 55 °C
Surrounding air temperature (storage)	-40 ... 85 °C
Protection type	IP20
Pollution degree (5)	2 per IEC 61131-2
Operating altitude	without temperature derating: 0 ... 2000 m; with temperature derating: 2000 ... 5000 m (0.5 K/100 m); 5000 m (max.)
Relative 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	0.711 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	4055143670128
Customs tariff number	85371091990

Approvals / Certificates

Ex-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	ATEX TUEV Nord Cert GmbH	EN 60079	TUEV_14_ATEX_148929_X
	CCCEX CQST/CNEx	CNCA-C23-01	2020312310000213

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



Ex nA IIC T4 Gc

IECEX
TUEV Nord Cert GmbH

IEC 60079

IECEX_TUN_14.0035_X

Downloads

Documentation

Manual

Manual digitalTAP™ Application With MTConnect	2.3.3 12. 12. 2019	pdf 3.1 MB	Download
<p>In order for manufactures to increase the productivity and efficiency of their plant floor, operations and maintenance managers alike need to have a real time view of their equipment. Using analytical software, plant floor leaders can track and visualize the current processes on their factory floor, and use this data to help them optimize their procedures.</p>			

Collecting real time data from existing equipment on the plant floor can be challenging. Existing equipment that was installed years ago may not have been designed to provide status information to a higher level system. And manufactures use disparate types of equipment to complete the task at hand. So how can manufactures capture vital data from their mature machines so they can have a competitive edge in the market?

WAGO offers a cost effective solution to bridge machine data from existing equipment to higher level analytical software applications. The digitalTAP™ from WAGO taps into your machine's information and transforms it into digital signals for use by analytical and data logging applications. This solution provides real time equipment data in a standardized format for any type of machine. The information is formatted using common standard open technologies based on xml and HTTP. Users can wire signals from their existing equipment, such as stack lights, motor starter auxiliaries and speed sensors to inputs on the WAGO controller or read Modbus registers from remote devices. These signals are then compiled into a standardized format and translated to a higher level software application.

There is no programming required for this solution. The user only needs to use their PC's web browser to configure the inputs they have wired. Each input can be individually assigned a unique name with its own parameters including units and scaling range. These configuration parameters are automatically stored in the WAGO controller and are ready for use.

Leveraging the open and royalty-free MTCONNECT® protocol, machine information

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

WAGO Kontakttechnik GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

Do you have any questions about our products?
We are always happy to take your call at +49 (571) 887-44222.



is formatted into a standardized table and uses proven internet protocols for data transport.

Systemhandbuch WAGO I/O System 750 / 753 Dezentrale Automatisierungstechnik	V 3.0.0 4. 3. 2021	pdf 6.6 MB	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 18. 12. 2017	mp4 88.3 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 5. 8. 2017	mp4 29.0 MB	Download
--	-------------------	----------------	----------

System Description

Overview on WAGO-I/O-SYSTEM 750 approvals		pdf 780.2 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

Application Notes

Application Note CoDeSys 2.3

Application note Cloud Connectivity This application note explains how the WAGO controllers PFC100 and PFC200 can communicate with cloud services like Microsoft Azure (WAGO Cloud), Amazon AWS and IBM Bluemix. Data could be send to the cloud and commands could receive from the cloud. The libraries WagoLibCloud for WAGO-I/O-PRO V2.3 and WagoAppCloud for e!COCKPIT are used.	2019-09-17 17. 9. 2019	zip 4.1 MB	Download
--	---------------------------	---------------	----------

Application Note e!COCKPIT

e!COCKPIT application note WagoAppCloud
Subject to changes. Please also observe the further product documentation!



This application note explains how the WAGO controllers PFC100 and PFC200 can communicate with cloud services like Microsoft Azure (WAGO Cloud), Amazon AWS and IBM Bluemix. Data could be send to the cloud and commands could receive from the cloud. The libraries WagoLibCloud for WAGO-I/O-PRO V2.3 and WagoAppCloud for e!COCKPIT are used.	2020-11-27 27. 11. 2020	zip 2.8 MB	Download
---	----------------------------	---------------	----------

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.	21. 1. 2020	57.6 kB	

Runtime Software

Firmware			
Firmware: 750-8101/000-010 Controller PFC100; FG0; 2 x ETHERNET; light gray	18	zip	Download
	4. 1. 2021	117.8 MB	

Software Solutions (Applications)

digital TAP™ powered by MTConnect			
digitalTAP™ software, powered by MTConnect for application controllers corresponding to at least function group 0 (e.g. 750-8101/000-010)	V 2.4.0.0	ZIP	Download
	13. 12. 2019	79.1 MB	

WAGO offers an economical solution for integrating machine data of existing systems into higher-level analytic software applications. DigitalTAP™ from WAGO captures your machine's information and converts it into digital signals that can be used by analytic and data logger applications. The solution provides real-time device data in a standardized format for every machine type. This solution requires no programming. The user merely needs to configure the wired inputs via a web visualization tool. Each input can be assigned a unique name individually with its own parameters, such as units and scaling range. These configuration parameters are stored automatically in the WAGO controller and are available immediately.

Through use of the open, licence-free MTConnect® standard, the machine information is formatted in a standardized table and uses proven Internet protocols for the data transport.

Environmental Product Compliance

Compliance Search

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

Data sheet | Item number: 750-8101/000-010

www.wago.com/750-8101/000-010



Environmental Product Compliance 750-8101/000-010

Controller PFC100; FG0; 2 x ETHERNET; light gray

[URL](#)

[Download](#)

Installation Notes

Product family

Controller 750

[Show all products from the family](#)

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

WAGO Kontakttechnik GmbH & Co. KG

Hansastr. 27

32423 Minden

Phone: +49571 887-0 | Fax: +49571 887-169

Email: info.de@wago.com | Web: www.wago.com

Do you have any questions about our products?

We are always happy to take your call at +49 (571) 887-44222.