



Lloyd's
Register

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

This certificate supersedes certificate number 02/20026 (E5) issued on 23 June 2017 which is hereby cancelled.

This certificate is issued to:

PRODUCER	WAGO Kontakttechnik GmbH & Co. KG Hansastraße 27 32423 Minden Germany	
DESCRIPTION	WAGO I/O-SYSTEM Series 750 and 753	
TYPES	PFC100/200 Controller	
	0750-8100	PFC100 CS 2ETH ECO
	0750-8101	PFC100 CS 2ETH
	0750-8102	PFC100 CS 2ETH RS
	0750-8202/*	PFC200 CS 2ETH RS
	0750-8203	PFC200 CS 2ETH CAN
	0750-8204	PFC200 CS 2ETH RS CAN
	0750-8206	PFC200 CS 2ETH RS CAN DPS
	0750-8208	PFC200 CS 2ETH RS CAN DPM
	0750-8212	PFC200 G2 2ETH RS
	0750-8213	PFC200 G2 2ETH CAN
	0750-8214	PFC200 G2 2ETH RS CAN
	0750-8216	PFC200 G2 2ETH RS CAN DPS

/* means: suffix extensions consists up to 16 digits (e.g. 0750-0501/xxxx-xxxx/xxxx-xxxx)

Certificate No.	02/20026 (E6)
Issue Date	16 April 2019
Expiry Date	19 February 2022
Sheet	1 of 10



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Types (continued)

Fieldbus Controller

0750-0806	DeviceNet
0750-0812	Modbus RS 485/150-19200 Bd
0750-0814	Modbus RS 232/150-19200 Bd
0750-0815	Modbus RS 485/1.2-115.2 kBd
0750-0816	Modbus RS 232/1.2-115.2 kBd
0750-0823	EtherNet/IP G4 2ETH
0750-0830	BACnet/IP
0750-0831	BACnet/IP
0750-0833	PROFIBUS Slave
0750-0837/*	CANopen MCS
0750-0838/*	CANopen DSub
0750-0841/*	ETHERNET 10/100 MBit/s
0750-0842/*	ETHERNET G1
0750-0843	ETHERNET G1 ECO
0750-0849	KNX/IP
0750-0852	ETHERNET G3 ECO
0750-0862	Modbus TCP G4 2ETH ECO
0750-0871	ETHERNET G2
0750-0873	ETHERNET G2 RS232
0750-0880	ETHERNET G3 SD
0750-0881	ETHERNET G3
0750-0882	ETHERNET G3 MR
0750-0884/*	Application BA
0750-0885	ETHERNET G3 SD MR
0750-0889	KNX/IP MR
0750-0890	Modbus TCP G4 2ETH SD
0750-0891/*	Modbus TCP G4 2ETH
0750-0893	EtherNet/IP G4 2ETH SD

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Types (continued)

Fieldbus Coupler

0750-0303/*	PROFIBUS G1 12 MBd
0750-0306/*	DeviceNet
0750-0312	Modbus/RS 485/150-19200 Bd
0750-0314	Modbus/RS 232/150-19200 Bd
0750-0315/*	Modbus/RS 485/1.2-115.2 kBd
0750-0316/*	Modbus/RS 232/1.2-115.2 kBd
0750-0323	PROFIBUS 12 MBd
0750-0333	PROFIBUS G2 12 MBd
0750-0337/*	CANopen MCS
0750-0338	CANopen DSub
0750-0341	ETHERNET TCP/IP 10/100 MBit
0750-0342	ETHERNET G1
0750-0343	PROFIBUS 12 MBd ECO
0750-0347	CANopen MCS ECO
0750-0348	CANopen DSub ECO
0750-0351	Sercos
0750-0352	ETHERNET G3
0750-0354/0000-0001	EtherCAT
0750-0362/*	Modbus TCP G4
0750-0363/*	ETHERNET/IP G4
0750-0375	PROFINET G3 Adv
0750-0377	PROFINET G3 ECO Adv

Digital Input (DI) Modules

0750-0400	0753-0400	2DI 24V DC 3.0ms
0750-0401	0753-0401	2DI 24V DC 0.2ms
0750-0402	0753-0402	4DI 24V DC 3.0ms
0750-0403	0753-0403	4DI 24V DC 0.2ms
0750-0405	0753-0405	2DI 230V AC
0750-0406	0753-0406	2DI 120V AC
0750-0408	0753-0408	4DI 24V DC 3ms LSS
0750-0410	0753-0410	2DI 24V DC 3.0ms Proxi Sensor

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Types (continued)

Digital Input (DI) Modules

0750-0411	0753-0411	2DI 24V DC 0.2ms Proxi Sensor
0750-0415	0753-0415	4DI 24V AC/DC 20ms
0750-0418	0753-0418	2DI 24V DC 3.0ms ack Diagn.
0750-0421	0753-0421	2DI 24V DC 3.0ms Diagn.
0750-0423	0753-0423	4DI 24V AC/DC S.E.
0750-0424	0753-0424	2DI Intruder Detection
0750-0425	0753-0425	2DI NAMUR
0750-0430	0753-0430	8DI 24V DC 3.0ms
0750-0431	0753-0431	8DI 24V DC 0.2ms
0750-0432	0753-0432	4DI 24V DC 3.0ms 2-wire
0750-0433	0753-0433	4DI 24V DC 0.2ms 2-wire
	0753-0434	8DI 5(12)V DC 0.2ms
0750-0435		1DI NAMUR Ex i
0750-0436	0753-0436	8DI 24V DC 3.0ms LSS
0750-0437	0753-0437	8DI 24V DC 0.2ms LSS
0750-0438		2DI NAMUR Ex i
0750-0439		8DI NAMUR Ex i
0750-1400		16DI 24V DC 3.0ms Ribbon Cable
0750-1402		16DI 24V DC 3.0ms LSS Ribbon Cable
0750-1405		16DI 24V DC 3.0ms
0750-1406		16DI 24V DC 0.2ms
0750-1407		16DI 24V DC 3.0ms LSS
0750-1415		8DI 24V DC 3.0ms 2-wire
0750-1416		8DI 24V DC 0.2ms 2-wire
0750-1417		8DI 24V DC 3.0ms LSS 2-wire
0750-1418		8DI 24V DC 0.2ms LSS 2-wire
0750-1420		4DI 24V DC 3.0ms 3-wire
0750-1421		4DI 24V DC 0.2ms 3-wire
0750-1422		4DI 24V DC 3.0ms LSS 3-wire
0750-1423		4DI 24V DC 0.2ms LSS 3-wire
0750-1425		8DI PTC

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Types (continued)

Digital Output (DO) Modules

0750-0501/*	0753-0501/*	2DO 24V DC 0.5A
0750-0502/*	0753-0502/*	2DO 24V DC 2.0A
0750-0504/*	0753-0504	4DO 24V DC 0.5A
0750-0508/*	0753-0508	2DO 24V DC 2.0A/Diagn.
0750-0509	0753-0509	2DO 230V AC 0.3A Sol. St.
0750-0512	0753-0512	2DO 250V AC 2.0A Rel.2NO
0750-0513/*	0753-0513/*	2DO 250V AC 2.0A Rel.2NO Pot.-Free
0750-0514	0753-0514	2DO 125V AC 0.5A Rel.2CO Pot.-Free
0750-0515		4RO 250 V AC 2.0A Rel.4NO Pot.-Free
0750-0516	0753-0516	4DO 24V DC 0.5A LSS
0750-0517	0753-0517	2DO 250V AC 1.0A Rel.2CO Pot.-Free
0750-0523		1DO 230V AC 16A REL 1A Pot.-Free
0750-0530	0753-0530	8DO 24V DC 0.5A
0750-0531/*	0753-0531/*	4DO 24V DC 0.5A 2-wire
0750-0532		4DO 24V DC 0.5A Diagn.
0750-0534	0753-0534	8DO 12V DC 1A
0750-0535		2DO 24V DC Ex i
0750-0536	0753-0536	8DO 24V DC 0.5A LSS
0750-0537	0753-0537	8DO 24V DC 0.5A Diagn.
0750-0538		2DO Relay Ex i
0750-0539		4DO 24 V DC Valve Ex i
0750-1500		16DO 24V DC 0.5A Ribbon Cable
0750-1501		16DO 24V DC 0.5A LSS Ribbon Cable
0750-1504		16DO 24V DC 0.5A CCS
0750-1505		16DO 24V DC 0.5A LSS
0750-1515		8DO 24V DC 0.5A 2-wire
0750-1516		8DO 24V DC 0.5A LSS 2-wire

Digital Input / Digital Output (DI/DO) Modules

0750-1502	8DIO 24 VDC 0.5A Ribbon Cable
0750-1506	8DIO 24 VDC 0.5A

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Types (continued)

Analogue Input (AI) Module

0750-0450		4AI RTD Adjust
0750-0451		8AI RTD Adjust
0750-0452/*	0753-0452	2AI 0-20mA Diff.
0750-0453/*	0753-0453	4AI 0-20mA S.E.
0750-0454/*	0753-0454	2AI 4-20mA Diff.
0750-0455/*	0753-0455	4AI 4-20mA S.E.
0750-0456/*	0753-0456	2AI ±10V DC
0750-0457	0753-0457	4AI ±10V DC S.E.
0750-0458		8AI TC Adjust
0750-0459	0753-0459	4AI 0-10V DC S.E.
0750-0461/*	0753-0461/*	2AI RTD (Pt100)
0750-0462/*		2AI TC (K)
0750-0464/*		2/4AI RTD Adjust
0750-0468/*		4AI 0-10V DC S.E.
0750-0469/*	0753-0469/*	2AI TC K Diagn.
0750-0470/*		2AI 0-20mA S.E.
0750-0471		4AI U/I Diff Galv
0750-0472/*	0753-0472	2AI 0-20mA 16Bit S.E.
0750-0473/*		2AI 4-20mA S.E.
0750-0474/*	0753-0474	2AI 4-20mA 16Bit S.E.
0750-0475/*	0753-0475	2AI 0-1A AC/DC Diff.
0750-0476/*	0753-0476	2AI ±10V DC 16Bit S.E.
0750-0478/*	0753-0478	2AI 0-10V DC 16Bit S.E.
0750-0479/*	0753-0479	2AI ±10V DC Diff.
0750-0481/0003-0000		2AI RTD Ex i
0750-0483, 0753-0483		2AI 0-30V DC Diff.
0750-0484		2AI 4-20mA HART Ex i
0750-0485		2AI 4-20MA Ex i
0750-0486		4AI 0/4-20mA Ex i
0750-0487/0003-0000		2AI TC Ex i
0750-0494/*		3-PHASE POM 480V AC 1A
0750-0495/*		3-PHASE POM 690V AC 1A

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Types (continued)

Analogue Input (AI) Module

0750-0496	8AI 0/4-20mA
0750-0497	8AI 0-10V/±10V DC

Analogue Output (AO) Module

0750-0550/*	0753-0550	2AO 0-10V DC
0750-0552/*	0753-0552	2AO 0-20mA
0750-0553	0753-0553	4AO 0-20mA
0750-0554/*	0753-0554	2AO 4-20mA
0750-0555	0753-0555	4AO 4-20mA
0750-0556/*	0753-0556	2AO ±10V DC
0750-0557	0753-0557	4AO ±10V DC
0750-0559/*	0753-0559	4AO 0-10V DC
0750-0563		2AO 0/4-20mA 16bits 6-18V DC
0750-0585		2AO 0-20MA Ex i
0750-0586		2AO 4-20MA Ex i

Interface Modules

0750-0630/*		SSI
0750-0641		DALI/DSI Master
	0753-0646	KNX/EIB/TP1
	0753-0647	DALI Multi Master
0750-0650/*	0753-0650/*	RS 232 C
0750-0651/*		TTY
0750-0652	0753-0652	RS232/485
0750-0653/*	0753-0653/*	RS 485
0750-0655	0753-0655	AS-Interface Master
0750-0658		CAN Gateway

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Types (continued)

Special Modules

0750-0404/*	0753-0404/*	Up/Down Counter
0750-0600		End Module
0750-0603	0753-0603	Potential Distribution 8*24V
0750-0604	0753-0604	Potential Distribution 8*0V
0750-0608		Trimmer-Module/1k/±12V DC
0750-0614	0753-0614	Potential Distribution
0750-0616		Distance Module
0750-0632		Proportional Valve Module
0750-0633		Up/Down Counter Ex i
0750-0634		Inc. Encoder 16 Bit
0750-0637		Inc. Encoder 32 Bit
0750-0654/*		Data Exchange Interface
0750-1605		Potential Distribution 16*24V
0750-1606		Potential Distribution 16*0V
0750-1607		Potential Distribution 8*24V/8*0V
0753-0110		Connector
0753-0620		DALI Multi Master DC/DC Converter
0288-0895		DC/DC-Converter (only in combination with DALI/DSI-Master Terminal 0750-0641)

Safety Modules

0750-0661/0000-0003	4FDI 24 VDC PROFIsafe V2 iPar
0750-0662/0000-0003	8FDI 24 VDC PROFIsafe V2 iPar
0750-0663/0000-0003	4F Ex i DI 24 VDC PROFIsafe V2 iPar
0750-0666/0000-0003	4FDI/2FDO 24 VDC 10A PROFIsafe V2 iPar
0750-0667/0000-0003	4FDI/4FDO 24 VDC 2A PROFIsafe V2 iPar

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Types (continued)

Power Supply Modules

0750-0601		24 VDC Power Supply (Fuse)
0750-0602	0753-0602	24 VDC Power Supply
0750-0606		24 VDC 1.0A Power Supply Diagn. Ex i
0750-0609		230 VAC Power Supply (Fuse)
0750-0610		24 VDC Power Supply (Fuse Diagn.)
0750-0611		230 VAC Power Supply (Fuse Diagn.)
0750-0612	0753-0612	0-230 V AC/DC Power Supply
0750-0613		24 VDC System Power Supply
0750-0623		24 V/5V-15V DC Power Supply
0750-0624/*		24 VDC Field Supply Filter
0750-0625/*		24 VDC Power Supply Ex i
0750-0626/*		24 VDC Supply Filter

Accessories

0758-0879/0000-0001	SD Memory Card
0750-0960	Connector PROFIBUS DSub-M 9P
0750-0963	Connector CANopen DSub-F 9P
0750-0970	Connector PROFIBUS DSub-M 9P PG-Int.
0750-0975	Connector ETHERNET RJ45
0750-0976	Connector PROFINET RJ45

WAGO I/O System 0750/0753 includes modules of type 0750-xxxx and 0753-xxxx. The function of the type 0753-xxxx is the same as 0750-xxxx, type 0753-xxxx uses a pluggable wiring connector 0753-0110. Both types are available with a suffix extension which means a variant described in e.g. firmware, process image, measuring range or default.

APPLICATION

Marine, offshore and industrial applications for use in environmental categories ENV1, ENV2, ENV3 and ENV4 as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 – July 2015.

ADDITIONAL TESTS

Low temperature (0 °C / 2 h)

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STANDARD

Manufacturer's specification

OTHER CONDITIONS

The devices part no. 750-0343/-0347/-0348/-0663 and 753-0620/-0647 to be used in general power distribution zone only.

Special conditions for Safe Use as stated in applicable Ex-certificates and the conditions of the LR Ship Rules & Regulations of Classification of Ships Part 6, Chapter 2 shall be observed when installed in hazardous areas. The Ex-certification does not form part of this certificate.

Final functional arrangements are to comply with appropriate Lloyd's Register Rules and will be subject to project related Plan Approval Process.

The Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply.

The Design Appraisal Document No. HTS/ETS 38109-19 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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