

# TYPE APPROVAL CERTIFICATE

**This is to certify:****That the Peripheral Equipment**with type designation(s)  
**WAGO I/O-System 750/753**

Issued to

**WAGO Kontakttechnik GmbH & Co. KG**  
**Minden, Nordrhein-Westfalen, Germany**is found to comply with  
**DNV GL rules for classification – Ships, offshore units, and high speed and light craft****Application :****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.****Location classes:****Temperature B****Humidity B****Vibration B****EMC A\*/B****Enclosure Required protection according to the Rules shall be provided upon installation on board.****\* see Application/Limitation**Issued at **Hamburg** on **2020-08-19**for **DNV GL**This Certificate is valid until **2023-01-11**.DNV GL local station: **Magdeburg**Approval Engineer: **Heinz Scheffler****Joannis Papanuskas**  
**Head of Section**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



Job Id: **262.1-025787-10**  
 Certificate No: **TAA0000194**  
 Revision No: **7**

## Product description

The WAGO I/O-SYSTEM 750/753 is a modular, fieldbus independent I/O system. 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.

### 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
0750-8215	PFC200 G2 4ETH CAN USB
0750-8216	PFC200 G2 2ETH RS CAN DPS
0750-8217	PFC200 G2 2ETH RS 4G

### 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
0750-0832/*	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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### 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
0750-0332	BACnet/IP
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 Output (DO) Modules

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

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**Digital Input (DI) Modules**

0750-0400	2DI 24V DC 3.0ms
0750-0401	2DI 24V DC 0.2ms
0750-0402	4DI 24V DC 3.0ms
0750-0403	4DI 24V DC 0.2ms
0750-0405	2DI 230V AC
0750-0406	2DI 120V AC
0750-0408	4DI 24V DC 3ms LSS
0750-0410	2DI 24V DC 3.0ms Proxi Sensor
0750-0411	2DI 24V DC 0.2ms Proxi Sensor
0750-0415	4DI 24V AC/DC 20ms
0750-0418	2DI 24V DC 3.0ms ack Diagn.
0750-0421	2DI 24V DC 3.0ms Diagn.
0750-0423	4DI 24V AC/DC S.E.
0750-0424	2DI Intruder Detection
0750-0425	2DI NAMUR
0750-0430	8DI 24V DC 3.0ms
0750-0431	8DI 24V DC 0.2ms
0750-0432	4DI 24V DC 3.0ms 2-wire
0750-0433	4DI 24V DC 0.2ms 2-wire
0753-0434	8DI 5(12)V DC 0.2ms
0750-0435	1DI NAMUR Ex i
0750-0436	8DI 24V DC 3.0ms LSS
0750-0437	8DI 24V DC 0.2ms LSS
0750-0438	2DI NAMUR Ex i
0750-0439	8DI NAMUR Ex i
0753-0419	2DI 24V DC 3.0ms Diagn.
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

**Digital Input /Output (DI/DO) Modules**

0750-1502	8DIO 24V DC 0.5A Ribbon Cable
0750-1506	8DIO 24V DC 0.5A

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**Analogue Input (AI) Modules**

0750-0450	4AI RTD Adjust
0750-0451	8AI RTD Adjust
0750-0452/*	2AI 0-20mA Diff.
0750-0453/*	4AI 0-20mA S.E.
0750-0454/*	2AI 4-20mA Diff.
0750-0455/*	4AI 4-20mA S.E.
0750-0456/*	2AI ±10V DC
0750-0457	4AI ±10V DC S.E.
0750-0458	8AI TC Adjust
0750-0459	4AI 0-10V DC S.E.
0750-0461/*	2AI RTD (Pt100)
0750-0462/*	2AI TC (K)
0750-0464/*	2/4AI RTD Adjust
0750-0468/*	4AI 0-10V DC S.E.
0750-0469/*	2AI TC K Diagn.
0750-0470/*	2AI 0-20mA S.E
0750-0471	4AI U/I Diff Galv
0750-0472/*	2AI 0-20mA 16Bit S.E.
0750-0473/*	2AI 4-20mA S.E.
0750-0474/*	2AI 4-20mA 16Bit S.E.
0750-0475/*	2AI 0-1A AC/DC Diff.
0750-0476/*	2AI ±10V DC 16Bit S.E.
0750-0478/*	2AI 0-10V DC 16Bit S.E.
0750-0479/*	2AI ±10V DC Diff.
0750-0481/0003-0000	2AI RTD Ex i
0750-0483	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
0750-0489	4AI RTD/TC/Strain Gauge Ex i
0750-0494/*	3-PHASE POM 480V AC 1A
0750-0495/*	3-PHASE POM 690V AC 1A
0750-0496	8AI 0/4-20mA
0750-0497	8AI 0-10V/±10V DC

**Analogue Output (AO) Modules**

0750-0550/*	2AO 0-10V DC
0750-0552/*	2AO 0-20mA
0750-0553	4AO 0-20mA
0750-0554/*	2AO 4-20mA
0750-0555	4AO 4-20mA
0750-0556/*	2AO ±10V DC
0750-0557	4AO ±10V DC
0750-0559/*	4AO 0-10V DC
0750-0563	2AO 0/4-20mA 16bits 6-18V DC
0750-0564	4AO U/I
0750-0585	2AO 0-20MA Ex i
0750-0586	2AO 4-20MA Ex i

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**Interface Modules**

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

**Special Modules**

0750-0404/*	Up/Down Counter
0750-0600	End Module
0750-0603	Potential Distribution 8*24V
0750-0604	Potential Distribution 8*0V
0750-0608	Trimmer-Module/1k/±12V DC
0750-0614	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)

**Power Supply Modules**

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

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### Safety Modules

0750-0661/0000-0003	4FDI 24V DC PROFIsafe V2 iPar
0750-0662/0000-0003	8FDI 24V DC PROFIsafe V2 iPar
0750-0663/0000-0003	4F Ex i DI 24V DC PROFIsafe V2 iPar
0750-0666/0000-0003	4FDI/2FDO 24V DC 10A PROFIsafe V2 iPar
0750-0667/0000-0003	4FDI/4FDO 24V DC 2A PROFIsafe V2 iPar
0750-0668/0000-0004	4FAI 0/4-20 mA Diff PROFIsafe

### Accessory

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

/\* means: WAGO I/O System 0750/0753 includes modules of type 0750-xxxx and 0753-xxxx.  
Both types are available with a suffix extension which consists up to 16 digits (xxxx-xxxx/xxxx-xxxx).  
The suffix extensions mean a variant which describes in e.g. firmware, process image, measuring range or default

Programming Software:

759-332: WAGO-I/O-Pro 32

759-333: WAGO-I/O-Pro CAA

Software is not covered by this type approval, and is listed for information only.

### Application/Limitation

#### Location classes:

**EMC A:** 0750-0343; 0750-0347; 0750-0348; 750-663/000-003

# 0750-8217 fulfills the class guideline DNVGL-CG-0339, December 2019

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV GL, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV GL Rules for Ships Pt.4 Ch.9 Control and Monitoring Systems.

Ex-certification is not covered by this certificate. Application in hazardous area to be approved in each case according to the Rules and Ex-Certification/ Special Condition for Safe Use listed in valid Excertificate issued by a notified/recognized Certification Body.

### Type Approval documentation

Test reports and Documents: TAA0000194 Test Report & Document List Rev. 4, dated 04.08.2020

### Tests carried out

Applicable tests according to Class Guideline DNVGL-CG-0339, Edition November 2016

# Applicable tests according to Class Guideline DNVGL-CG-0339, Edition December 2019

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## **Marking of product**

The products to be marked with:

- Model name
- Manufacturer name
- Serial number

## **Periodical assessment**

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE