



CERTIFICATE NUMBER 19-HG1821926-PDA
EFFECTIVE DATE 11 January 2019
EXPIRATION DATE 10 January 2024
ABS TECHNICAL OFFICE
Hamburg Engineering Department

CERTIFICATE OF Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

WAGO KONTAKTTECHNIK GMBH & CO. KG

located at
Hansastr. 27
D-32423 Minden
Germany

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product Input/Output Module

Model I/O System 0750, 0753

This Product Design Assessment (PDA) Certificate remains valid until expiration date or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau of Shipping

Dagmar Gramatzki,
Engineer/Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).



Confirmation of Product Type Approval

Please refer to the "Service Restrictions" shown below to determine if Unit Certification is required for this product. This certificate reflects the information on the product in the ABS Records as of the date and time the certificate is printed.

Pursuant to the Rules of the American Bureau of Shipping (ABS), the manufacturer of the below listed product held a valid Manufacturing Assessment (MA) with expiration date of 09-JAN-2024. The continued validity of the Manufacturing Assessment is dependent on completion of satisfactory audits as required by the ABS Rules.

And; a Product Design Assessment (PDA) valid until subject to continued compliance with the Rules or standards used in the evaluation of the product.

The above entitle the product to be called Product Type Approved.

The Product Design Assessment is valid for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Product Name: Input/Output Module
Model Name(s): I/O System 0750, 0753

Presented to:
WAGO KONTAKTECHNIK GMBH & CO. KG
HANSASTR. 27
Germany

Intended Service: Automation system components for monitoring and control functions on AMS, ACC, ACCU, ABCU Classed Vessels.

Description: Fieldbus couplers/controllers/connectors, field side connection modules, digital input/output modules, analogue input/output modules, power supply modules, special modules, accessories. Refer to attached document "Additional Product Details - Document List".

Tier: 3

Ratings: Operating temperature: from 0°C ...+55°C. Degree of protection: IP 20. For rated voltage and further details refer to attached document "Additional Product Details - Document List".

Service Restrictions: - Unit Certification is not required for this product. - Unit Certification is required for this product by the user to customize this equipment where it is used for Category II or III services as described in Section 4-9-3/Table 1 of the ABS Steel Vessels Rules. - Installation and application of product as per manufacturer's instructions.

Comments: - The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product. - Each application and configuration is to be specifically approved in conjunction with the relevant system in which the components are used.

Notes / Documentation: Refer to attached document "Additional Product Details - Document List".

Term of Validity: This Product Design Assessment (PDA) Certificate 19-HG1821926-PDA, dated 10/Jan/2019 remains valid until 09/Jan/2024 or until the Rules or specifications used in the assessment are revised (whichever occurs first). This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product. Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA. Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

ABS Rules: 2019 Steel Vessel Rules: 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-1-1/Table 3, 4-9-3/11.1, 4-9-8/3, 4-9-8/7, 4-9-8/13, 4-9-8/Table 1.

National Standards:
International Standards:
Government Authority:
EUMED:
Others:

Model Certificate	Model Certificate No	Issue Date	Expiry Date
PDA	19-HG1821926-PDA	11-JAN-2019	09-JAN-2024



ABS Programs

ABS has used due diligence in the preparation of this certificate and it represents the information on the product in the ABS Records as of the date and time the certificate was printed. Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. Limited circumstances may allow only Prototype Testing to satisfy Type Approval. The approvals of Drawings and Products remain valid as long as the ABS Rule, to which they were assessed, remains valid. ABS cautions manufacturers to review and maintain compliance with all other specifications to which the product may have been assessed. Further, unless it is specifically indicated in the description of the product; Type Approval does not necessarily waive witnessed inspection or survey procedures (where otherwise required) for products to be used in a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS. Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.

**Additional Product Details –
Document List**

**WAGO Kontakttechnik GmbH & Co. KG
PDA Certificate No. 19-HG1821926-PDA
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Input/Output Modules

Model Name: I/O System 0750, 0753

Item number	Designation
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

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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Input/Output Modules

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 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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Input/Output Modules

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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Input/Output Modules

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
0750-0494/*	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
0750-0585	2AO 0-20MA Ex i
0750-0586	2AO 4-20MA Ex i

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Input/Output Modules

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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Input/Output Modules

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/*	4FDI/4FDO 24V DC 2A PROFIsafe V2 iPar

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

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.

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

Document List

Document No. Operating and Assembly Instructions, Operating and Assembly Instructions, Revision: -, Pages: 2

Document No. TD - Part 1, Technical Data Sheets - Part 1, Revision: -, Pages: 149

Document No. TD - Part 2, Technical Data Sheets - Part 2, Revision: -, Pages: 139

Document No. Test Report No. 1027-07-GG-07-PP001, Test Report No. 1027-07-GG-07-PP001 of 25 May 2007_SLG Prüf-und Zertifizierungs GmbH, Revision: -, Pages: 69.

Document No. Test Report No. 140034-05-01A-05-e, Test Report No. 140034-05-01A-05-e of 09 Sept 2014_Kriwan, Revision: -, Pages: 156.

Document No. Test Report No. EMVP15_0051, Test Report No. EMVP15_0051 of 21 January 2016_WAGO: -, Pages: 306.