

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Peripheral Equipment

with type designation(s)
WAGO I/O System 750

Issued to

WAGO Kontakttechnik GmbH & Co. KG
Minden, 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.

Temperature B

Humidity B

Vibration B

EMC B

Enclosure Required protection according to the Rules shall be provided upon installation on board.

Issued at **Hamburg** on **2018-01-16**

This Certificate is valid until **2023-01-15**.

DNV GL local station: **Magdeburg**

for **DNV GL**

Approval Engineer: **Heinz Scheffler**

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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.



Product description

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

The System including the following list of modules:

PFC100/200 Controller

0750-8101/0025-0000	PFC100 CS 2ETH/T
0750-8102/0025-0000	PFC100 CS 2ETH RS/T
0750-8202/0025-0000	PFC200 CS 2ETH RS/T
0750-8202/0025-0001	PFC200 CS 2ETH RS TELE /T
0750-8202/0025-0002	PFC200 CS 2ETH RS ECO TELE/T
0750-8203/0025-0000	PFC200 CS 2ETH CAN/T
0750-8204/0025-0000	PFC200 CS 2ETH RS CAN/T
0750-8206/0025-0000	PFC200 CS 2ETH RS CAN DPS/T
0750-8206/0025-0001	PFC200 CS 2ETH RS CAN DPS TELE/T
0750-8208/0025-0000	PFC200 CS 2ETH RS CAN DPM/T
0750-8208/0025-0001	PFC200 CS 2ETH RS CAN DPM TELE/T

Fieldbus Controller

0750-0812/0025-0000	Modbus/RS 485/150-19200 Bd./T
0750-0815/0025-0000	Modbus/RS 485/1.2-115.2 kBd./T
0750-0833/0025-0000	PROFIBUS DPV1/T
0750-0880/0025-0000	Ethernet/T
0750-0880/0025-0001	Ethernet Telecontrol/T
0750-0880/0025-0002	Ethernet Telecontrol ECO/T
0750-0885/0025-0000	Ethernet MR/SD/T

Fieldbus Coupler

0750-0333/0025-0000	PROFIBUS DPV1/T
0750-0337/0025-0000	CANopen/T
0750-0375/0025-0000	PROFINET IO adv./T
0750-0377/0025-0000	PROFINET IO adv. ECO 2-Port/T

Digital Input (DI) Module

0750-0400/0025-0000	2DI 24V DC 3.0ms/T
0750-0402/0025-0000	4DI 24V DC 3.0ms/T
0750-0408/0025-0000	4DI 24V DC 3.0ms LS-Switch/T
0750-0430/0025-0000	8DI 24V DC 3.0ms/T

Digital Output (DO) Module

0750-0504/0025-0000	4DO 24V DC 0.5A/T
0750-0504/0025-0800	4DO 24V DC 0.5A R/T
0750-0530/0025-0000	8DO 24V DC 0.5A/T

Analogue Input (AI) Module

0750-0454/0025-0000	2AI 4-20mA Diff./T
0750-0455/0025-0000	4AI 4-20mA S.E./T
0750-0457/0025-0000	4AI +/-10V DC S.E./T
0750-0461/0025-0000	2AI PT100 RTD adj./T
0750-0468/0025-0000	4AI 0-10V DC S.E./T
0750-0494/0025-0000	3-Phase Power Measurement 480V/1A/T
0750-0494/0025-0001	3-Phase Power Measurement 480V/5A/T

Analogue Output (AO) Module

0750-0552/0025-0000	2AO 0-20mA/T
0750-0554/0025-0000	2AO 4-20mA/T
0750-0559/0025-0000	4AO 0-10V DC/T

Interface Module

0750-0652/0025-0000	RS 232/RS 485/T
0750-0653/0025-0000	RS 485/T
0750-0653/0025-0018	RS 485 9600/N/8/1/5Byte/Cont./T

Special Module

0750-0600/0025-0000	End Module/T
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Power Supply Modules

0750-0602/0025-0000	24V DC Power Supply/T
0750-0626/0025-0000	24V DC Supply Filter (Surge)/T
0750-0626/0025-0001	24V DC Supply Filter (Surge)/HI/T

Application/Limitation

Additional Temperature severity level: Cold test with -20°C / 16h

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.

Job Id: **262.1-026680-1**
Certificate No: **TAA00001J4**

Type Approval documentation

Test Reports: EK0016_1_00, EK0016_2_00, EK0027_02_05, EK0027_04_05, EK0027_05_05, EK0054_1_03, EMVP06_0412, EMVP08_0139, EMVP10_0366, EMVP11_170_V1, EMVP13_0202, EMVP13_0245, EMVP15_0047, EMVP15_0051, EMVP17_0010, LB15468, E21336

Documents: Document List MC999999_Cert17_014, Rev1

Tests carried out

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

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