



TYPE APPROVAL CERTIFICATE

Certificate No:
TAA000026G
Revision No:
2

This is to certify:

That the **Peripheral Equipment**

with type designation(s)
CP604, CP607, CP610

Issued to

ABB AG
Heidelberg, Germany

is found to comply with

DNV 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.

Type	Temperature	Humidity	Vibration	EMC	Enclosure
CP604	A	B	A	B	B - IP66 (front) / IP20 (rear)
CP607	A	B	A	B	B - IP66 (front) / IP20 (rear)
CP610	A	B	A	B	B - IP66 (front) / IP20 (rear)

Issued at **Hamburg** on **2022-10-04**

This Certificate is valid until **2024-01-16**.

DNV local station: **Augsburg**

Approval Engineer: **Dariusz Lesniewski**

for **DNV**

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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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Product description

Model name	Description	Standard compass safe distance	Steering compass safe distance
CP604(-x)	4.3" TFT color display, resolution 480x272 pixel, 64K colors. Resistive touchscreen, Dimmable LED backlight ARM Cortex A8 300 MHz 1 Ethernet port 1 USB (V2.0) port 1 RS-232/RS-485/RS-422	35 cm	20 cm
CP607(-x)	7" TFT color display, resolution 800 x480 pixel, 64K colors. Resistive touchscreen, Dimmable LED backlight ARM Cortex A8 300 MHz 1 Ethernet port 1 USB (V2.0) port 1 RS-232/RS-485/RS-422	50 cm	40 cm
CP610(-x)	10.1" TFT color display, resolution 1024x600 pixel, 64K colors. Resistive touchscreen, Dimmable LED backlight ARM Cortex A8 1 GHz 1 Ethernet port 1 USB (V2.0) port 1 RS-232/RS-485/RS-422	35 cm	25 cm

Application/Limitation

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV, 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 Rules for Ships Pt.4 Ch.9 Control and Monitoring Systems.

Product certificate

If specified in the Rules, ref. Pt.4 Ch.9 Sec.1, the control and monitoring system in which the above listed hardware is used shall be delivered with a product certificate. For each such delivery the certification test is to be performed at the manufacturer of the application system before the system is shipped to the yard. The test shall be done according to an approved test program. After the certification the clause for application software control will be put into force.

Clause for application software control

All changes in software are to be recorded as long as the system is in use on board. The records of all changes are to be forwarded to DNV for evaluation and approval. Major changes in the software are to be approved before being installed.

Type Approval documentation

See ANNEX

Tests carried out

Applicable tests according to Class Guidelines DNV-CG-0339, August 2021.

For the bridge mounted components the 'Compass safe distance' was measured according to section 11.2 of IEC 60945 4th edition (2002).

Marking of product

Model name and part number: As listed under Product description

Serial number: Unique for each delivered item

Periodical assessment

The assessment is done in connection with TAA00001BD.

END OF CERTIFICATE



Job Id: 262.1-029520-2
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ANNEX
Type Approval documentation
(hidden)

Places of Production
(hidden)