

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Peripheral Equipment**

with type designation(s)
CP604, CP607, CP610

Issued to

ABB Automation Products GmbH
Heidelberg, Baden-Württemberg, 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.

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 **2019-01-17**

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

for **DNV GL**

DNV GL local station: **Augsburg**

Approval Engineer: **Marco Rinkel**

.....
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

Model name	Description	Standard compass safe distance	Steering compass safe distance
CP604	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	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	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 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 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 GL for evaluation and approval. Major changes in the software are to be approved before being installed.



Job Id: **262.1-029520-1**
Certificate No: **TAA000026G**

Type Approval documentation

See ANNEX

Tests carried out

Applicable tests according to Class Guidelines DNVGL-CG-0339, November 2015.

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

Places of Production

See ANNEX

Periodical assessment

The assessment is done in connection with TAA00001BD.

END OF CERTIFICATE

Job Id: **262.1-029520-1**
Certificate No: **TAA000026G**

ANNEX
Type Approval documentation
(hidden)

Places of Production
(hidden)