DNV·GL

Certificate No:
TAA000022A

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Peripheral Equipment

with type designation(s)
Control Panels CP600-Pro Series - CP6605, CP6607, CP6610, CP6615, CP6621

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.

Temperature	**C**
Humidity	**B**
Vibration	**A**
EMC	**B**
Enclosure	**C (IP66 front, IP20 rear)**

Issued at **Hamburg** on **2018-10-23**
This Certificate is valid until **2023-06-19**.
DNV GL local station: **Augsburg**

Approval Engineer: **Jens Dietrich**

for **DNV GL**

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.

© DNV GL 2014. DNV GL and the Horizon Graphic are trademarks of DNV GL AS.

Product description

CP6605:
- 5" TFT color display, resolution 800x480 pixel, 64K colors.
- Dimmable LED backlight
- Projected capacitive touchscreen. True glass design. Multitouch operation
- 2 Ethernet ports
- SD Card slot
- 1 Plug-in module slot for system expansion
- Standard Compass Safe Distance: Standard: 15 cm, Steering: 10 cm

CP6607:
- 7" TFT color display, resolution 800x480 pixel, 16M colors.
- Dimmable LED backlight
- Projected capacitive touchscreen. True glass design. Multitouch operation
- 3 Ethernet ports
- SD Card slot
- 2 Plug-in module slots for system expansion
- Standard Compass Safe Distance: Standard: 85 cm, Steering: 40 cm

CP6610:
- 10.1" TFT color display, resolution 1280x800 pixel, 16M colors.
- Dimmable LED backlight
- Projected capacitive touchscreen. True glass design. Multitouch operation
- 3 Ethernet ports
- SD Card slot
- 2 Plug-in module slots for system expansion
- Standard Compass Safe Distance: Standard: 115 cm, Steering: 75 cm

CP6615:
- 15.6" TFT color display, resolution 1366x768 pixel, 16M colors.
- Dimmable LED backlight
- Projected capacitive touchscreen. True glass design. Multitouch operation
- 3 Ethernet ports
- SD Card slot
- 2 Plug-in module slots for system expansion
- Standard Compass Safe Distance: Standard: 180 cm, Steering: 130 cm

CP6621:
- 21.5" TFT color display, resolution 1920x1080 pixel, 16M colors.
- Dimmable LED backlight
- Projected capacitive touchscreen. True glass design. Multitouch operation
- 3 Ethernet ports
- SD Card slot
- 2 Plug-in module slots for system expansion
- Standard Compass Safe Distance: Standard: 220 cm, Steering: 130 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 GL 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.

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

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 this certificate.

END OF CERTIFICATE