EU RO MUTUAL RECOGNITION TYPE APPROVAL CERTIFICATE

Certificate No:
MRA000001Y

This Certificate is issued to

ABB Automation Products GmbH
Heidelberg, Baden-Württemberg, Germany

for
Monitors, Terminals

with type designation(s)
CP6605, CP6607, CP6610, CP6615, CP6621

The product is found to comply with
EU RO Mutual Recognition Technical Requirements for Display Monitors, Video Screens, Terminals
EU RO Mutual Recognition Technical Requirements for Computers and Programmable Logic Controllers

Intended service
Application of the control, monitoring and safety systems which are subject for approval of the individual RO classing the vessel.

Temperature [°C]:	**-25°C and 55°C**
Vibration:	**±1 mm / 0,7 g**
EMC:	**All locations including bridge and open deck**
IP Code:	**front side - IP66, back side . IP20**

This Certificate is valid until **2023-09-09**.

Issued at **Hamburg** on **2018-09-10**

DNV GL local station: **Augsburg**

for **DNV GL**

Approval Engineer: **Marco Rinkel**

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Joannis Papanuskas
Head of Section

Product description

Power supply voltage 24 Vdc

Model name	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

MODEL NAME:
Model name can be followed by "-x" where x can be a letter indicating different cosmetic parts not affecting the EU RO Mutual Technical Requirements

Application/Limitation

This approval covers hardware only. This excludes firmware, application software, and hardware designed for specific applications subject to classification. Firmware, system software, and application software are subject to additional separate approval, according to UR E22 and the rules of the classing RO (FAT and on-board review / tests).

Ex-certification is not covered by this certificate. Application in hazardous area to be approved in each case according to the Rules and Ex-Certification/ Special Condition for Safe Use listed in valid Ex-certificate issued by a notified/recognized Certification Body.

Required protection according to the Recognised Organisation's Rules shall be provided upon installation on board. The touch functionality is not covered by this certificate.

Type Approval documentation

See ANNEX

Marking of product

Model name and part number: As listed under Product description
Serial number: Unique for each delievered item

Other Conditions

The units have been verified for compliance with EU Mutual Recognition Technical Requirements for Display Monitors, Video Screens and Terminals version 0.3, dated 2016-04-01.

EU Mutual Recognition Technical Requirements for Computers and programmable logic controllers (PLC) version 0.3, dated 2016-04-01 have additionally been verified.

Environmental test parameters
Temperature: -25°C and 55°C
Vibration: ±1 mm / 0,7 g
EMC: All locations including bridge and open deck
Enclosure: front side – IP66, back side – IP20

Manufactured by

EXOR INTERNATIONAL SPA
San Giovanni Lupatoto VR, Italy

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 annually and at renewal of this certificate.

END OF CERTIFICATE

ANNEX

Type Approval documentation
(hidden)