



TYPE APPROVAL CERTIFICATE

Certificate No. : CPH33151-AC003 **Initial Approval** : 14th February, 2018
Product : Touch Screen Control Panel
Manufacturer : Beijer Electronics AB
Box 426, Stora Varvsgatan 13a, SE-201 24 Malmoe, Sweden

Product Description : Type : X2 extreme series

- Power supply : 12V DC (9~16V DC), 24V DC (18~32V DC)
- Enclosure : Front(IP66), Rear(IP20)

Intended for : Human Machine Interface applications for use as alarm monitoring, automation etc.

* Manufacturing place
Beijer Electronics Corp.
4F, No. 501-15, Zhongzheng Rd., Xindian Dist., New Taipei City, Taiwan

" See Appendix 1 & 2 "

Approval Condition : " See Appendix 1 & 2 "

THIS IS TO CERTIFY that the above-mentioned product has been approved in accordance with the relevant requirement of this Society's Rules and / or of the recognized standards as follows and entered in the "List of Approved Manufacturers and Type Approved Equipment".

Pt. 6, Ch. 2, Art. 301 of the Rules for Classification, Steel Ships.

This Certificate is valid until 13th February, 2023

Issued at Busan, Korea on 14th February, 2018



KOREAN REGISTER OF SHIPPING

*General Manager of
Marine & Ocean Equipment Team*

- Note : 1. This certificate will be valid subject to complying with the approval conditions described on the certificate and/or on the Rules of this Society.
2. This certificate will be invalid from the expiry date aforementioned unless the extension or renewal has been granted to the applicant or the manufacturer.
3. Any significant modifications or changes in design or construction to the above product without approval from this Society will render this certificate invalid.
4. Should the specified rules, regulations or standards be amended during the validity of this certificate, the product is to be re-approved by this Society in accordance with the requirements as amended.*

Appendix 1

Product Description and/or Approval Condition

Certificate No : CPH33151-AC003

Date of Issue : 14 February, 2018

A. Product Description

1. Product Specification

Type Name	Display Size	Power Supply
X2 extreme 7 12V	7"	12V DC
X2 extreme 7	7"	24V DC
X2 extreme 7 HP	7"	24V DC
X2 extreme 7 HP SC	7"	24V DC
X2 extreme 7 HP SM	7"	24V DC
X2 extreme 12	12.1"	24V DC
X2 extreme 12 HP	12.1"	24V DC
X2 extreme 12 HP SC	12.1"	24V DC
X2 extreme 12 HP SM	12.1"	24V DC
X2 extreme 15	15.4"	24V DC
X2 extreme 15 HP	15.4"	24V DC
X2 extreme 15 HP SC	15.4"	24V DC
X2 extreme 15 HP SM	15.4"	24V DC

- SC : Soft Control
- SM : Soft Motion
- HP : High Performance
- 12V : 12 Volt

1) Compass safe distance

The minimum safe distance at which this panel may be mounted from the compasses is as follows.

Type	Standard Compass (cm)	Steering Compass (cm)
X2 extreme 7 12V	40	25
X2 extreme 7	40	25
X2 extreme 7 HP	30	20
X2 extreme 12	70	50
X2 extreme 12 HP	80	55
X2 extreme 15	80	60
X2 extreme 15 HP	70	50

For types not measured, worst case minimum compass safe distance (80cm/60cm) is to be observed.

2. Approved Drawings and documents

- 1) Document
 - Installation manual for X2 extreme, No. MAEN239, 2017-05
- 2) Drawings
 - Drawing No. DDOC-00028 Rev. A, Sheet 1 of 2
 - Drawing No. DDOC-00029 Rev. A, Sheet 1 of 2
 - Drawing No. DDOC-00030 Rev. A, Sheet 1 of 2

3. Test Reports, etc.

- 1) Test Reports
 - ETC Test Report No. 17-04-MAS-029-01, -02 (2017/06/08)
 - ETC Test Report No. 17-06-EAT-006-E00
 - VST Test Report No. VS-TV-06509-01 ~ -07 (2017/05/21)
 - VST Test Report No. VS-TS-060522-01 ~ -07 (2017/05/22)
 - UT Test Report No. UT106095 (June 28, 2017)
 - CAL Test Report No. 170418001T (2017/05/22)
 - CAL Test Report No. 170418001T-1 (2017/06/03)
 - CSU Test Report No. SS-A106-110-E (21 August 2017)
 - CSU Test Report No. IP-A106-195-E ~ -201-E (12 July 2017)

< To be continued >

Appendix 2

Product Description and/or Approval Condition

Certificate No : CPH33151-AC003

Date of Issue : 14 February, 2018

- CCSRF Test Report No. T170428D05-E (May 24, 2017)
- CCSRF Test Report No. T170428D08-E (May 24, 2017)
- CCSRF Test Report No. T170428D10-E (May 24, 2017)
- CCSRF Test Report No. T170428D11-E (May 24, 2017)
- CCSRF Test Report No. T170428D12-E (May 24, 2017)
- CCSRF Test Report No. T170428D13-E (May 24, 2017)
- CCSRF Test Report No. T170428D14-E (May 31, 2017)
- GOGC Test Report No. G017080903 (August 25, 2017)
- PAL Test Report No. TH2_17_0136-1 (2017/05/05)

B. Approval Condition

1. Application & Limitation

- 1) This approval is granted on the basis of the test reports and the approved documentation.
- 2) This Certificate covers the hardware of X2 extreme only. The function of the software is to be verified by the individual product certification or on-board test.

2. Individual Product Cert. and Drawing Approval Requirement

- 1) If this panel is used as parts of the controller for essential auxiliaries specified in KR Rule Pt. 5, Ch. 1, 102., Individual Product Certification for the controller is required and the system drawings for individual vessel are to be approved by this Society.

3. Marking

- 1) The product or packing is to be marked with the manufacturer's name and type designation on a suitable position.

4. Others

N/A

< The End >