

BEIJER ELECTRONICS CORP.
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Tier: 2 - PDA Issued

Product: Monitor, Graphic Panels

Model: X2 Series

Intended Service:

Human Machine Interface (HMI) for monitoring and control systems in Marine Applications.

Description:

Human Machine Interface (HMI) with 4.3/7/10/12/15 inch TFT-LCD with LED back-light display and touch screen.

Rating:

Detailed datasheet listed as attachment.

Service Restriction:

1. Unit Certification is not required for BEIJER ELECTRONICS CORP. (436089) as the original supplier. However, unit certification in accordance with 4-9-3/Table 2 & 3 of the Steel Vessel Rules is required by the user to customize this equipment where this equipment is used for Category II or III services in 4-9-3/Table 1 in presence of the Surveyor after assemblage. The tests are to be carried out preferably at the assembled plant before installation on-board. However, if it is impracticable, the tests may be carried out after installation on-board.

2. Failure analysis for safety related functions only and Analysis regarding existence and fulfillment of programming procedures for safety related functions in association with 4-9-3/Table 2 & 3 of the Steel Vessel Rules is to be additionally submitted when this component is used for systems assigned as Category III.

3. The equipment is to be installed indoor purpose, not to be installed in marine weather exposed area.

Comments:

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

Notes/Drawing/Documentation:

Drawing No. NA-1, X2_MAEN202, Revision: 0,

Drawing No. NA-2, X2_Datasheet_160119, Revision: 0,

Drawing No. NA-3, TP7204001_IMX7_2015-05-06_A1, Revision: 0,

Drawing No. NA-4, SW_Users Guide, Revision: 0,

Drawing No. NA-5, SW_Reference Manual, Revision: 0,

Drawing No. NA-6, SRS TxAB (PDM_PROJ_DOC - 1031421 - 1 - A2) - 1, Revision: 0,

Drawing No. NA-7, Self test Information 1004, Revision: 0,

Drawing No. NA-8, Power Supply, Revision: 0,

Drawing No. NA-9, iX HMI SoftControl AD_210x297, Revision:0,

Drawing No. NA-10, Global Product Development Process_WIP_9 DEC 15, Revision: 0,

Drawing No. NA-11, FMEA_X2_TxB-2, Revision: 0,

Drawing No. NA-12, DDOC-00009rA, Revision: 0,

Drawing No. NA-13, DDOC-00008A, Revision: 0,

Drawing No. NA-14, DDOC-00007A, Revision: 0,

Drawing No. NA-15, DDOC-00006rA, Revision:0,

Drawing No. NA-16, DDOC-00005A, Revision: 0,

Drawing No. NA-17, DDOC-00004rA, Revision:0,

Drawing No. NA-18, DDOC-00003B, Revision: 2,

Drawing No. NA-19, DDOC-00002A, Revision: 0,

Drawing No. NA-20, DDOC-00001A, Revision:0,

Drawing No. NA-21, BREN576 - Softmotion_low, Revision: 0,

Drawing No. NA-22, Block Diagram, Revision: 0,

Drawing No. NA-23, Beijer SW Quality, Revision: 0,

Drawing No. NA-24, Beijer SW flow, Revision: 0,

Drawing No. NA-25, Beijer Models TxB-2 project, Revision: 0,

Drawing No. NA-26, Copy of DOC-Z8100-102A (PDM_DRW - 1147710 - 1 - A1) - 1, Revision: 0,

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Drawing No. NA-27, dok-z8100-001a, Revision: 0,
Drawing No. NA-28, dok-z8100-002a, Revision: 0,
Drawing No. OS description, WEC2013 software description, Revision: 1.
ABS POWER SUPPLY VARIATION TEST of 16-06-MAS-087-01, dated 28 Jun 2016 by ELECTRONICS TESTING CENTER, TAIWAN

Dry Heat Test, Damp Test and Cold Test of 16-02-EAT-074-E01/-E02, dated 15 Feb 2016 by ELECTRONICS TESTING CENTER, TAIWAN
Dry Heat Test, Damp Test and Cold Test of 16-05-EAT-008-E01, dated 3 May 2016 by ELECTRONICS TESTING CENTER, TAIWAN

Vibration Test of VS-TV-050321-01, dated 4 Apr 2016 by VIBRATION SOURCE TECHNOLOGY CO., LTD.
Vibration Testing Laboratory
Vibration Test of VS-TV-050321-02, dated 5 Apr 2016 by VIBRATION SOURCE TECHNOLOGY CO., LTD.
Vibration Testing Laboratory
Vibration Test of VS-TV-050321-03, dated 5 Apr 2016 by VIBRATION SOURCE TECHNOLOGY CO., LTD.
Vibration Testing Laboratory
Vibration Test of VS-TV-050321-04/-05, dated 9 Apr 2016 by VIBRATION SOURCE TECHNOLOGY CO., LTD.
Vibration Testing Laboratory
Vibration Test of VS-TV-050321-06, dated 28 Apr 2016 by VIBRATION SOURCE TECHNOLOGY CO., LTD.
Vibration Testing Laboratory
Vibration Test of VS-TV-050518-01, dated 23 May 2016 by VIBRATION SOURCE TECHNOLOGY CO., LTD.
Vibration Testing Laboratory
Vibration Test of VS-TV-050518-03, dated 5 Jun 2016 by VIBRATION SOURCE TECHNOLOGY CO., LTD.
Vibration Testing Laboratory
Vibration Test of VS-TV-050518-05, dated 10 Jun 2016 by VIBRATION SOURCE TECHNOLOGY CO., LTD.
Vibration Testing Laboratory

Inclination Test of 16-02-EAT-074-E03, dated 15 Feb 2016 by ELECTRONICS TESTING CENTER, TAIWAN
Inclination Test of 16-02-EAT-008-E02, dated 3 May 2016 by ELECTRONICS TESTING CENTER, TAIWAN

Insulation Resistance Test and High Voltage Test of 151202001T-1 ~ -5, dated 23 Mar 2016 by CAL-TECH Technology Co.,Ltd.
Insulation Resistance Test and High Voltage Test of 151202001T-13 ~ -15, dated 27 May 2016 by CAL-TECH Technology Co.,Ltd.

EMC Test and Power Supply Failure Test of T160325D05-E/ T160406D07-E/ T160406D08-E/ T160406D10-E/ T160407D01-E/ T160408D01-E, dated 7 July 2016 by Compliance Certification Services Inc. Xindian
EMC Test and Power Supply Failure Test of T160407D02-E/ T160408D08-E, dated 12 July 2016 by Compliance Certification Services Inc. Xindian

Flame Retardant Test of UT105063 ~ UT105066, dated 27 May 2016 by Universal Testing Inc.
Flame Retardant Test of UT105076 ~ UT105079, dated 17 Jun 2016 by Universal Testing Inc.

Compass Safe Distance Test 151202001T-7 ~ -12, dated 23 Mar 2016 by CAL-TECH Technology Co.,Ltd.
Compass Safe Distance Test 151202001T-18 ~ -20, dated 27 May 2016 by CAL-TECH Technology Co.,Ltd.

Acoustic Test TH2_16_0115, dated 13 May 2016 by PAL Acoustics Technology Ltd.

Enclosure Test IP-A105-168-E, dated 28 Apr 2016 by Cheng Shiu University Environmental & Reliability Testing Laboratory, Electrical Technology Center
Enclosure Test IP-A105-165-E ~ IP-A105-167-E, dated 30 Apr 2016 by Cheng Shiu University Environmental &

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Reliability Testing Laboratory, Electrical Technology Center
Enclosure Test IP-A105-190-E ~ IP-A105-192-E/ IP-A105-195-E, dated 6 Jun 2016 by Cheng Shiu University
Environmental & Reliability Testing Laboratory, Electrical Technology Center

Terms of Validity:

This Product Design Assessment (PDA) Certificate 16-SQ1516745-PDA, dated 16/Nov/2016 remains valid until 28/Jul/2021 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

STANDARDS

ABS Rules:

2016 Steel Vessel Rules 1-1-4/7.7 1-1-A3, 1-1-A4, 4-1-1/Table 3, 4-8-3/15, 4-9-1/7.3.9, 4-9-3 (Category III), 4-9-8/7 and 4-9-8/13;
2016 Steel Vessel Rules (Under 90 Meters) 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-1-1/Table 3C, 4-7-1/7.19, 4-7-2/9, 4-7-2/15.3 and 4-7-2/17;
2016 Offshore Support Vessel Rules (OSV Rules) 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-1-1/Table 3, 4-8-3/15, 4-9-1/7.3.9, 4-9-3 (Category III), 4-9-8/7 and 4-9-8/13;
2016 High-Speed Craft Rules 1-1-4/11.9, 1-1-A2, 1-1-A3, 4-7-1/7.3.12, 4-7-8 (Category III), 4-7-9/7 and 4-7-9/15

National:

NA

International:

IACS UR E10 (Rev. 6 Oct 2014) IACS UR E22 (Rev. 1 Sept 2010), IEC 60945 (2002).

Government:

NA

EUMED:

NA

OTHERS:

NA