



Lloyd's
Register

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Document number 18/60002
Issue number 1

DESIGN APPRAISAL DOCUMENT

Date 16 February 2018	Please quote the document number on all future communications.
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LLOYD'S REGISTER TYPE APPROVAL SYSTEM, 2015

Issued to: BEIJER ELECTRONICS PRODUCTS AB

For: TOUCH SCREEN HUMAN MACHINE INTERFACE (HMI)

**Types: X2 EXTREME 7, X2 EXTREME 7 12V, X2 EXTREME 7 HP,
X2 EXTREME 7 HP SC*, X2 EXTREME 7 HP SM*, X2 EXTREME 12,
X2 EXTREME 12 HP, X2 EXTREME 12 HP SC*, X2 EXTREME 12 HP SM*,
X2 EXTREME 15, X2 EXTREME 15 HP, X2 EXTREME 15 HP SC*,
X2 EXTREME 15 HP SM***

TYPE APPROVAL CERTIFICATE No. 18/60002

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register Type Approval System, 2015 and this Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

Application for Type Approval

Inspection and Surveillance of Production Facilities Report TPI 1701077

MAEN239 - REV. 2017-05 - X2 EXTREME INSTALLATION MANUAL

DDOC-00025 - REV. A - X2 EXTREME 7 FINAL ASSEMBLY INSTRUCTION

DDOC-00026 - REV. A - X2 EXTREME 12 FINAL ASSEMBLY INSTRUCTION

DDOC-00027 - REV. A - X2 EXTREME 15 FINAL ASSEMBLY INSTRUCTION

DDOC-00028 - REV. A - X2 EXTREME 7 UL TERMINAL DIMENSIONS

DDOC-00029 - REV. A - X2 EXTREME 12 UL TERMINAL DIMENSIONS

DDOC-00030 - REV. A - X2 EXTREME 15 UL TERMINAL DIMENSIONS

DTSCRN-00001 - REV. C - TOUCHSCREEN T7BR-2 RES 4W 3H

DTSCRN-00001 - REV. D - TOUCHSCREEN T7BR-2 RES 3H

DTSCRN-00002 - REV. C - TOUCHSCREEN T12BR-2 RES 5W 3H

DTSCRN-00003 - REV. C - TOUCHSCREEN T15BR-2 RES 5W 3H

MS-Z4201-001 - REV. E - FRONT GASKET 7 B

MS-Z4281-001 - REV. B - FRONT GASKET IX PANEL T12B

MS-Z4301-006 - REV. D - BEIJER, FRONT GASKET 15.4 OPT

SC301166603_BEI_12BR2_B_HP - REV. R3.0 - 11666 03 BEI 12BR2 BASE / HIGHPERF

SC301166603_BEI_12BR2_B_HP - REV. R3.0 - 11666 03 BEI 12BR2 BASE / HIGHPERF

SC401166601_BEI_7BR2_B_HP - REV. R4.0 - 11666 02 BEI 7BR2 BASE / HIGHPERF

SC401166601_BEI_7BR2_B_HP - REV. R4.0 - 11666 02 BEI 7BR2 BASE / HIGHPERF

SC401166601_BEI_7BR2_B_HP - REV. R4.0 - 11666 02 BEI 7BR2 BASE / HIGHPERF

TXBR2 ELEC BLOCK DIAGAM

1001584 - REV. 6 - BEIJER ELECTRONICS PRODUCTS AB COSMETIC INSPECTION GUIDELINE

BEIJER ELECTRONICS SW FLOW

BEIJER SW QUALITY

7205004 - REV. A1 - TEST PLAN - I.MX6DUALLITE - I.MX6QUAD

REV. B - SOFTWARE QUALITY PLAN

FM 37606 - BSI CERTIFICATE OF REGISTRATION ISO 9001:2008

FCC 47 CFR PART 15 DECLARATION OF CONFORMITY - X2 EXTREME 7 HP

EN 60945 CE VERIFICATION OF COMPLIANCE - X2 EXTREME 7 HP

EN 55011&61000-6-2 CE VERIFICATION OF COMPLIANCE - X2 EXTREME 7 HP

28.06.2017

14.09.2017

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12.12.2017

18.10.2016

24.05.2017

24.05.2017

24.05.2017



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FCC 47 CFR PART 15 DECLARATION OF CONFORMITY - X2 EXTREME 7 12V	24.05.2017
EN 60945 CE VERIFICATION OF COMPLIANCE - X2 EXTREME 7 12V	24.05.2017
EN 55011&61000-6-2 CE VERIFICATION OF COMPLIANCE - X2 EXTREME 7 12V	24.05.2017
FCC 47 CFR PART 15 DECLARATION OF CONFORMITY - X2 EXTREME 7 12V	24.05.2017
EN 60945 CE VERIFICATION OF COMPLIANCE - X2 EXTREME 7	24.05.2017
EN 55011&61000-6-2 CE VERIFICATION OF COMPLIANCE - X2 EXTREME 7	24.05.2017
FCC 47 CFR PART 15 DECLARATION OF CONFORMITY - X2 EXTREME 7	24.05.2017
EN 60945 CE VERIFICATION OF COMPLIANCE - X2 EXTREME 12	24.05.2017
EN 55011&61000-6-2 CE VERIFICATION OF COMPLIANCE - X2 EXTREME 12	24.05.2017
FCC 47 CFR PART 15 DECLARATION OF CONFORMITY - X2 EXTREME 12	24.05.2017
EN 60945 CE VERIFICATION OF COMPLIANCE - X2 EXTREME 12 HP	24.05.2017
EN 55011&61000-6-2 CE VERIFICATION OF COMPLIANCE - X2 EXTREME 12 HP	24.05.2017
FCC 47 CFR PART 15 DECLARATION OF CONFORMITY - X2 EXTREME 12 HP	24.05.2017
EN 60945 CE VERIFICATION OF COMPLIANCE - X2 EXTREME 15	24.05.2017
EN 55011&61000-6-2 CE VERIFICATION OF COMPLIANCE - X2 EXTREME 15	24.05.2017
FCC 47 CFR PART 15 DECLARATION OF CONFORMITY - X2 EXTREME 15	24.05.2017
EN 60945 CE VERIFICATION OF COMPLIANCE - X2 EXTREME 15 HP	31.05.2017
EN 55011&61000-6-2 CE VERIFICATION OF COMPLIANCE - X2 EXTREME 15 HP	31.05.2017
FCC 47 CFR PART 15 DECLARATION OF CONFORMITY - X2 EXTREME 15 HP	31.05.2017
EN 60945 CE VERIFICATION OF COMPLIANCE - X2 EXTREME 7 HP SC	03.07.2017
EN 55011&61000-6-2 CE VERIFICATION OF COMPLIANCE - X2 EXTREME 7 HP SC	03.07.2017
FCC 47 CFR PART 15 DECLARATION OF CONFORMITY - X2 EXTREME 7 HP SC	03.07.2017
EN 60945 CE VERIFICATION OF COMPLIANCE - X2 EXTREME 7 HP SM	03.07.2017
EN 55011&61000-6-2 CE VERIFICATION OF COMPLIANCE - X2 EXTREME 7 HP SM	03.07.2017
FCC 47 CFR PART 15 DECLARATION OF CONFORMITY - X2 EXTREME 7 HP SM	03.07.2017
EN 55011&61000-6-2 CE VERIFICATION OF COMPLIANCE - X2 EXTREME 12 HP SC	03.07.2017
FCC 47 CFR PART 15 DECLARATION OF CONFORMITY - X2 EXTREME 12 HP SC	03.07.2017
EN 55011&61000-6-2 CE VERIFICATION OF COMPLIANCE - X2 EXTREME 12 HP SM	03.07.2017
FCC 47 CFR PART 15 DECLARATION OF CONFORMITY - X2 EXTREME 12 HP SM	03.07.2017
EN 55011&61000-6-2 CE VERIFICATION OF COMPLIANCE - X2 EXTREME 15 HP SC	04.07.2017
FCC 47 CFR PART 15 DECLARATION OF CONFORMITY - X2 EXTREME 15 HP SC	04.07.2017
EN 55011&61000-6-2 CE VERIFICATION OF COMPLIANCE - X2 EXTREME 15 HP SM	04.07.2017
FCC 47 CFR PART 15 DECLARATION OF CONFORMITY - X2 EXTREME 15 HP SM	04.07.2017
BEIJER ELECTRONICS TOUCHSCREEN T7BR-2 RES 4W 3H - TPI CERTIFICATE OF CONFORMANCE	-

TEST REPORTS

7205004 - REV. A1 - TEST PLAN - I.MX6DUALLITE - I.MX6QUAD (SIGNED)	-
SS-A106-110-E - TEST REPORT SALT MIST, CYCLIC TEST	21.08.2017
IP-A106-195-E - TEST REPORT DEGREES OF PROTECTION PROVIDED BY ENCLOSURES	12.06.2017
IP-A106-196-E - TEST REPORT DEGREES OF PROTECTION PROVIDED BY ENCLOSURES	12.06.2017
IP-A106-197-E - TEST REPORT DEGREES OF PROTECTION PROVIDED BY ENCLOSURES	12.06.2017
IP-A106-198-E - TEST REPORT DEGREES OF PROTECTION PROVIDED BY ENCLOSURES	12.06.2017
IP-A106-199-E - TEST REPORT DEGREES OF PROTECTION PROVIDED BY ENCLOSURES	12.06.2017
IP-A106-200-E - TEST REPORT DEGREES OF PROTECTION PROVIDED BY ENCLOSURES	12.06.2017
IP-A106-201-E - TEST REPORT DEGREES OF PROTECTION PROVIDED BY ENCLOSURES	12.06.2017
17-06-EAT-006-E00 - ETC -TEST REPORT	01.06.2017
170418001T - CAL-TECH TECHNOLOGY - TEST REPORT FOR INSPECTION	22.05.2017

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UT106095 - UNIVERSAL TESTING INC. - TEST REPORT	28.06.2017
17-04-MAS-029-01 -TEST REPORT FOR ABS POWER SUPPLY VARIATION TEST	08.06.2017
17-04-MAS-029-02 -TEST REPORT FOR DNV GL POWER SUPPLY VARIATION TEST	08.06.2017
CE VERIFICATION OF COMPLIANCE - X2 EXTREME 7 HP	24.05.2017
CE VERIFICATION OF COMPLIANCE - X2 EXTREME 7 HP	24.05.2017
T170428D05-E - R. 00 - CE EMC TEST REPORT FOR TOUCH OPERATOR PANEL - X2 EXTREME 7 HP	-
T170428D05-E - R. 00 - TEST REPORT FOR TOUCH OPERATOR PANEL - X2 EXTREME 7 HP	-
T170428D05-F - R. 00 - FCC DOC TEST REPORT FOR TOUCH OPERATOR PANEL - X2 EXTREME 7 HP	-
T170428D08-E - R. 00 - CE EMC TEST REPORT FOR TOUCH OPERATOR PANEL - X2 EXTREME 7 12V	-
T170428D08-F - R. 00 - FCC DOC TEST REPORT FOR TOUCH OPERATOR PANEL X2 EXTREME 7 12V	-
T170428D10-E - R. 00 - CE EMC TEST REPORT FOR TOUCH OPERATOR PANEL X2 EXTREME 7	-
T170428D10-F - R.00 - FCC DOC TEST REPORT FOR TOUCH OPERATOR PANEL X2 EXTREME 7	-
T170428D11-E - R. 00 - CE EMC TEST REPORT FOR TOUCH OPERATOR PANEL X2 EXTREME 12	-
T170428D11-E - R. 00 - TEST REPORT FOR TOUCH OPERATOR PANEL MODEL: X2 EXTREME 12	-
T170428D11-F - R. 00 - FCC DOC TEST REPORT FOR TOUCH OPERATOR PANEL X2 EXTREME 12	-
T170428D12-E - R. 00 - CE EMC TEST REPORT FOR TOUCH OPERATOR PANEL X2 EXTREME 12 HP	-
T170428D12-E - R. 00 - TEST REPORT FOR TOUCH OPERATOR PANEL X2 EXTREME 12 HP	-
T170428D12-F - R. 00 - FCC DOC TEST REPORT FOR TOUCH OPERATOR PANEL X2 EXTREME 12 HP	-
T170428D13-E - R. 00 - CE EMC TEST REPORT FOR TOUCH OPERATOR PANEL X2 EXTREME 15	-
T170428D13-E - R. 00 - TEST REPORT FOR TOUCH OPERATOR PANEL X2 EXTREME 15	-
T170428D13-F - R. 00 - FCC DOC TEST REPORT FOR TOUCH OPERATOR PANEL X2 EXTREME 15	-
T170428D14-E - R. 00 - CE EMC TEST REPORT FOR TOUCH OPERATOR PANEL X2 EXTREME 15 HP	-
T170428D14-E - R. 00 - TEST REPORT FOR TOUCH OPERATOR PANEL X2 EXTREME 15 HP	-
T170428D14-F - R. 00 - FCC DOC TEST REPORT FOR TOUCH OPERATOR PANEL X2 EXTREME 15 HP	-
T170629D12-E - R. 01 - CE EMC TEST REPORT FOR TOUCH OPERATOR PANEL X2 EXTREME 7 HP SC	-
T170629D12-F - R. 01 - FCC DOC TEST REPORT FOR TOUCH OPERATOR PANEL X2 EXTREME 7 HP SC	-
T170629D13-E - R. 01 - CE EMC TEST REPORT FOR TOUCH OPERATOR PANEL X2 EXTREME 7 HP SM	-
T170629D13-F - R. 01 - FCC DOC TEST REPORT FOR TOUCH OPERATOR PANEL X2 EXTREME 7 HP SM	-
T170629D14-E - R. 01 - CE EMC TEST REPORT FOR TOUCH OPERATOR PANEL X2 EXTREME 12 HP SC	-
T170629D14-F - R. 01 - FCC DOC TEST REPORT FOR TOUCH OPERATOR PANEL X2 EXTREME 12 HP SC	-
T170629D15-E - R. 01 - CE EMC TEST REPORT FOR TOUCH OPERATOR PANEL X2 EXTREME 12 HP SM	-
T170629D15-F - R. 01 - FCC DOC TEST REPORT FOR TOUCH OPERATOR PANEL X2 EXTREME 12 HP SM	-
T170629D16-E - R. 01 - CE EMC TEST REPORT FOR TOUCH OPERATOR PANEL X2 EXTREME 15 HP SC	-
T170629D16-F - R. 01 - FCC DOC TEST REPORT FOR TOUCH OPERATOR PANEL X2 EXTREME 15 HP SC	-
T170629D17-E - R. 01 - CE EMC TEST REPORT FOR TOUCH OPERATOR PANEL X2 EXTREME 15 HP SM	-
T170629D17-F - R. 01 - FCC DOC TEST REPORT FOR TOUCH OPERATOR PANEL X2 EXTREME 15 HP SM	-
VS-TS-060522-01 - VIBRATION SOURCE TECHNOLOGY - TEST REPORT- X2 EXTREME 7 12V	22.05.2017
VS-TS-060522-02 - VIBRATION SOURCE TECHNOLOGY - TEST REPORT- X2 EXTREME 12	22.05.2017
VS-TS-060522-03 - VIBRATION SOURCE TECHNOLOGY - TEST REPORT- X2 EXTREME 15	22.05.2017
VS-TS-060522-04 - VIBRATION SOURCE TECHNOLOGY - TEST REPORT- X2 EXTREME 7	22.05.2017
VS-TS-060522-05 - VIBRATION SOURCE TECHNOLOGY - TEST REPORT- X2 EXTREME 12 HP	22.05.2017
VS-TS-060522-06 - VIBRATION SOURCE TECHNOLOGY - TEST REPORT- X2 EXTREME 15 HP	22.05.2017
VS-TS-060522-07 - VIBRATION SOURCE TECHNOLOGY - TEST REPORT- X2 EXTREME 7 HP	22.05.2017
VS-TS-060509-01 - VIBRATION SOURCE TECHNOLOGY - TEST REPORT- X2 EXTREME 7 12V	21.05.2017
VS-TS-060509-02 - VIBRATION SOURCE TECHNOLOGY - TEST REPORT- X2 EXTREME 12	21.05.2017
VS-TS-060509-03 - VIBRATION SOURCE TECHNOLOGY - TEST REPORT- X2 EXTREME 15	21.05.2017
VS-TS-060509-04 - VIBRATION SOURCE TECHNOLOGY - TEST REPORT- X2 EXTREME 7	21.05.2017

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VS-TS-060509-05 – VIBRATION SOURCE TECHNOLOGY - TEST REPORT- X2 EXTREME 12 HP	21.05.2017
VS-TS-060509-06 – VIBRATION SOURCE TECHNOLOGY - TEST REPORT- X2 EXTREME 15 HP	21.05.2017
VS-TS-060509-07 – VIBRATION SOURCE TECHNOLOGY - TEST REPORT- X2 EXTREME 7 HP	21.05.2017
IML_X2EXTREME_V1.0_BUILD118.EXE	06.11.2017

Supplementary Type Approval Terms and Conditions

Type Approval certifies that a representative sample of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein. It does not mean or imply approval for any other use, nor approval of any product(s) designed or manufactured otherwise than in strict conformity with the said representative sample.

Type Approval is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations are complied with.

Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

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LR031.1.2016.06

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