



TYPE APPROVAL CERTIFICATE

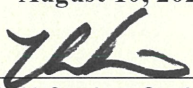
No. **ELE141719PU**

This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

| | |
|--|---|
| <i>Description Type</i> | LCD Touch Panel for Human Machine Interface HMI iXP2 Series |
| <i>Applicant</i> | LS ELECTRIC CO., LTD. 56, Samseong 4-gil, Mokcheon-eup, Dongnam-gu, 31226 Cheonan-si (Chungcheongbuk-do) REPUBLIC OF KOREA |
| <i>Manufacturer Place of manufacture</i> | AMS CO., LTD. 340-44, Yeonamyulgeum-ro, Eumbong-myeon 31414 Asan-Si (Chungcheongbuk-do) REPUBLIC OF KOREA |
| <i>Reference standards</i> | Rules for the Classification of Ships - Part C - Machinery, Systems and fire protection - Chapter 3, Section 6, Table 1 |

Issued in **BUSAN** on **August 11, 2020**. This Certificate is valid until **August 10, 2025**




RINA Services S.p.A.
Young-Kwang Kim

This certificate consists of this page and 1 enclosure

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HMI iXP2 Series

Product Description

+ The HMI iXP2 Series is LCD Touch Panels used for Human Machine Interface

Main features

- + TFT-LCD Panel size: iXP2-0800D MR - 8.4", iXP2-1000D MR - 10.4", iXP2-1200D MR - 12.1", iXP2-1500D MR - 15"
- + Max. Resolution: 800 x 600 pixel, 1024 x 768 pixel
- + Color Indication : 24 bit
- + Interface : RS232C, RS-422/485, Ethernet, USB and SD Card
- + Backlight : LED Type
- + Power supply: DC 24V
- + Touch Panel Type : Capacitive Touch
- + Ingress Protection : IP66(front)

Reference Documents

- + Technical Document: LS ELECTRIC's Specification and Technical data Ref No. 2019-KD007-630-0003 Ver1.2 dated 06/04/2020
- + Test report: DT&C's Environment Test Report Ref. No. DRCREL2007-0563 dated 15/07/2020 & DRCREL2007-0566 dated 15/07/2020 , DT&C's EMC Test Report Ref. No. DREETC2007-0100 dated 16/07/2020 & DREETC2007-0099 dated 16/07/2020
- + Visual Inspection & Performance Test: LS ELECTRIC's Human Machine Interface Performance Test Report
DOC No: 2019-KD007-630-008 Version 1.3 dated 14/05/2020 attended by RINA Surveyor.
- + Manufacturer (AMS CO.,LTD)'s ISO 9001:2015 Certificate : Registration No. 17684/0 dated 10/05/2016
- + Asbestos-Free Declaration: LS ELECTRIC's official letter dated 10/08/2020 & AMS's official letter dated 23/07/2020

Note/Remark

- + The product is subject to the compliance with RINA Rules and Standards mentioned on the certificates
- + Type Approval certifies that a representative sample of the product has been found to meet the applicable design criteria
- + Any modification or change shall not be valid until approval is granted by RINA as a result of due assessment
- + Software Type Approval is not included in the scope of this certificate
- + Location : general power distribution zone except bridge and deck zone

BUSAN Auguts 11, 2020



A handwritten signature in black ink, appearing to be "VLL", is located to the left of the contact information.

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