

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Peripheral Equipment

with type designation(s)
iXP2 Series

Issued to

LS ELECTRIC Co., Ltd. (Cheon-an Plant)
Cheonan-si, Chungcheongnam-do, Republic of Korea

is found to comply with

DNV GL rules for classification – Ships, offshore units, and high speed and light craft

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Temperature	B
Humidity	B
Vibration	A
EMC	A
Enclosure	IP66(Front)

Issued at **Busan** on **2020-10-23**

for **DNV GL**

This Certificate is valid until **2025-10-22**.

DNV GL local station: **Seoul**

Approval Engineer: **Eun Jin Lee**

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Andreas Kristoffersen
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



Job Id: **262.1-032587-1**
Certificate No: **TAA00002J2**

Product description

iXP2 Series of XGT Panels

Model name	Size	Display Type	Touch panel
iXP2-0800D, MR	8.4"	TFT color LCD	Capacitive Touch
iXP2-1000D, MR	10.4"		
iXP2-1200D, MR	12.1"		
Ixp2-1500D, MR	15"		

Power supply : 24V DC (Input range: DC19.2-28.8V)

Power consumption : 25 Watt(8.4"&10.4"), 30Watt(12.1"&15")

Application/Limitation

The Type Approval covers hardware listed under product description. When the hardware is used in applications to be classed by DNV GL, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to the applicable rule set for classification.

Type Approval documentation

Specification and Technical data	2019-KD007-630-0003 Ver.1.2	2020-04-06
Drawing	iXP2-0800D, MR 2019-KD007-630-005.01 Ver.1.2	2020-04-06
	iXP2-1000D, MR 2019-KD007-630-005.02 Ver.1.2	2020-04-06
	iXP2-1200D, MR 2019-KD007-630-005.03 Ver.1.2	2020-04-06
	iXP2-1500D, MR 2019-KD007-630-005.04 Ver.1.2	2020-04-06

Test reports	DRCREL2007-0563	2020-07-15
	DREETC2007-0100	2020-07-16
	DRCREL2007-0566	2020-07-15
	DREETC2007-0099	2020-07-16

Tests carried out

Applicable tests according to DNVGL-CG-0339, December 2019.

Marking of product

- Model name
- LS Electric Co.,Ltd.
- Serial number

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 after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of this certificate.

END OF CERTIFICATE