



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEX Scheme visit www.iecex.com

Certificate No.: IECEX CML 16.0104X Issue No: 0 Certificate history:
Issue No. 0 (2017-09-15)

Status: **Current** Page 1 of 3

Date of Issue: **2017-09-15**

Applicant: **LSIS Co. Ltd**
56, Samsung 4 Gil
Mokcheon-eup
Dongnam-gu
Chunan-si
Chungcheongnam-Do
Korea, Republic of

Equipment: **HMI/XGT Panel/iXP50, iXP70, iXP80 and iXP90 series**
Optional accessory:

Type of Protection: **Ex nA, Ex tc**

Marking:
Ex nA IIC T5 Gc
Ex tc IIIC T100°C Dc
Tamb = 0°C to +50°C

Approved for issue on behalf of the IECEX
Certification Body:

A Snowdon

Position:

Certification Officer

Signature:
(for printed version)

A Snowdon

Date:

September 15, 2017

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEX Website](http://www.iecex.com).

Certificate issued by:

Certification Management Limited
Unit 1, Newport Business Park
New Port Road
Ellesmere Port, CH65 4LZ
United Kingdom





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Manufacturer: **LSIS Co. Ltd**
56, Samsung 4 Gil
Mokcheon-eup
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Chungcheongnam-Do
Korea, Republic of

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-15 : 2010 Edition:4	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[GB/CML/ExTR16.0139/00](#)

Quality Assessment Report:

[GB/CML/QAR17.0014/00](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The HMI/XGT Panel/iXP50, iXP70, iXP80 and iXP90 series is a human/machine interface, operated by a touch screen, designed for automation systems using a TFT colour LCD display with LED backlight.

Refer to annex for full description and Conditions of Manufacture.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Refer to Annex for Specific Conditions of Use.

Annex:

[Certificate Annex IECEx CML 16.0104X.pdf](#)

Annexe to: IECEx CML 16.0104X, Issue 0
Applicant: LSIS Co. Ltd
Apparatus: HMI/XGT Panel/iXP50, iXP70, iXP80 and iXP90 series



Description

The HMI/XGT Panel/iXP50, iXP70, iXP80 and iXP90 series is a human/machine interface, operated by a touch screen, designed for automation systems using a TFT colour LCD display with LED backlight. The equipment has the following units in the series:

Model	iXP50-TTA/DC	iXP70-TTA/DC	iXP80-TTA/DC	iXP90-TTA/DC
Dimensions (mm)	240.5 x 180.0 x 54.4	270.5 x 212.5 x 60.0	313.0 x 239.0 x 56.0	395.0 x 294.0 x 60.0
Screen size	21.3cm	26.4cm	30.7cm	38.1cm
Rated Voltage	24Vdc	12/24Vdc	12/24Vdc	12/24Vdc
Power Consumption (W)	30.8	42.3	42.3	42.3

Each model uses a plastic enclosure with the above dimensions, and a glass touch screen.

The equipment has a covered USB port on the front next to the screen for download and upload of project files.

On the rear of the enclosure the equipment has terminals for power connection, USB, Ethernet, RS-232, RS-422, audio out and an SD-Card slot.

Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

- i. Each unit shall be subjected to a dielectric strength test of 500 V applied for 60 seconds, as per Clause 6.5.1 of IEC 60079-15:2010. Alternatively, the test may be carried out at 600 V for 100 ms. Each test shall be recorded.
Upon completion of the test, no breakdown shall occur.

Special Conditions for Safe Use (Specific Conditions of Use)

The following conditions relate to safe installation and/or use of the equipment.

- i. The equipment presents a potential electrostatic hazard. Clean only with a damp cloth.
- ii. The device shall be installed in an enclosure which maintains an ingress protection rating of at least IP54 and meets the enclosure requirements of IEC 60079-0 and IEC 60079-15.
- iii. The equipment shall only be used in an area with a low risk of mechanical danger.

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- iv. Provision shall be made to provide an external transient protection device to the equipment to be set at a level not exceeding 140 % of the peak rated voltage or a value of 85 V, whichever is greater.
- v. Plugs and sockets shall not be separated while an explosive atmosphere may be present.
- vi. The equipment shall be kept out of direct sunlight.