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 18.0130X

Issue No: 1

Certificate history:
Issue No. 1 (2018-11-15)
Issue No. 0 (2018-08-30)

Status: **Current**

Date of Issue: **2018-11-15**

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

Equipment: **XGT Panel HMI**

Optional accessory:

Type of Protection: **Non Sparking "nA", Dust Ignition "Dc"**

Marking:

Ex nA IIC T5 Gc

Ex tc IIIC T100°C Dc

(0°C≤Ta≤+50°C)

Approved for issue on behalf of the IECEx Certification Body: R C Marshall

Position: Certification Officer

Signature:
(for printed version)

Date: 2018-11-15

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.

Certificate issued by:

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

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Certificate No: IECEx CML 18.0130X Issue No: 1

Date of Issue: **2018-11-15**

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

Additional Manufacturing location(s):

LSIS Co. Ltd
340-44, Yeonamyulgum-ro,
Eumbong-myeon,
Asan-si,
Chungcheonnam-do,
Korea, Republic of

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 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/ExTR18.0188/00 GB/CML/ExTR18.0188/01

Quality Assessment Report:

GB/CML/QAR17.0014/00 GB/CML/QAR17.0014/01

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The XGT Panel iXP2-08, iXP2-10, iXP2-12 and iXP2-15 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.

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.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Issue 1

This issue introduces the following changes:

i. Addition of an additional manufacturing location.

Annex:

IECEx CML 18.0130X Iss. 1 Certificate Annex.pdf

Annexe to: **IECEx CML 18.0130X Issue 01**

Applicant: **LSIS Co. Ltd**

Apparatus: **XGT Panel HMI**

Description

The XGT Panel iXP2-08, iXP2-10, iXP2-12 and iXP2-15 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.

iXP2-(A)(B)(C)(D)-EX			
Division	Sign	Contents	Power consumption
(A) LCD type	08	21.4 cm (8.4”)	25 W (@ AC 220V)
	10	26.4 cm (10.4”)	25 W (@ AC 220V)
	12	30.7 cm (12.1”)	30 W (@ AC 220V)
	15	38.1 cm (15”)	30 W (@ AC 220V)
(B) O/S type	0	WinCE 7.0 (Core)	
	1	WinCE 7.0 (Pro)	
	2	Linux	
	3	None	
(C) Communication	0	Standard type	
(D) Power supply	A	AC 100 ~ 240 V	
	D	DC 19.2 ~ 28.2 V	

Each model uses an aluminum die-casting 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 on SD-Card slot.

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Conditions of Manufacture

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

i. Where the product incorporates certified parts or safety critical components the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.

ii. Each Unit shall be subjected to dielectric strength test of 500 V(DC model) or 1,500 V(AC model) 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.

Specific Conditions of Use (Special Conditions)

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

i. The equipment shall be installed in an enclosure which maintains an ingress protection rating protection rating of at least IP54 (for Ex nA) in accordance with IEC 60079-15 or IP 64 (for Ex tc) in accordance with IEC 60079-31.

ii. Transient protection shall be provided that is set at a level not exceeding 140 % of the peak rated voltage value at the supply terminals to the equipment

iii. The equipment shall only be used in an area of not more than pollution degree 2, as defined in IEC 60664-1.

iv. Plugs and sockets shall not be separated while an explosive atmosphere may be present.

v. The equipment presents a potential electrostatic hazard. Clean only with a damp cloth.

vi. The equipment shall be used always in a standing position.