



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

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

Certificate No.: **IECEx KSCP 22.0027X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2022-05-25

Applicant: **LS ELECTRIC Co., Ltd.**
56, Samsung 4-gil, Mokcheon-eup, Dongnam-gu,
Cheonan-si, Chungcheongnam-do
Korea, Republic of

Equipment: **XGT Panel LXP series; Main unit LXP M**D-EX, Display unit LXP-D****-EX**

Optional accessory:

Type of Protection: **"nA", "nC", "tc"**

Marking: Ex nA nC IIC T6 Gc
Ex tc IIIC T85°C Dc

Approved for issue on behalf of the IECEx
Certification Body:

Sang He Kim

Position:

President of the Board

Signature:
(for printed version)

Date:
(for printed version)

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Certificate issued by:

KSC POLAND Sp. z o.o.
Chorzowska 150 Street
Katowice 40-101
Poland





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Manufacturer: **LS ELECTRIC Co., Ltd.**
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Cheonan-si, Chungcheongnam-do
Korea, Republic of

Manufacturing locations: **LS ELECTRIC Co., Ltd.**
56, Samsung 4-gil, Mokcheon-eup,
Dongnam-gu,
Cheonan-si, Chungcheongnam-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 equipment 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 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-15:2010](#) Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:4

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

This Certificate **does not** indicate compliance with 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:

[PL/KSCP/ExTR22.0027/00](#)

Quality Assessment Report:

[PL/KSCP/QAR21.0028/01](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The XGT Panel LXP series are human/machine interfaces which include a touch screen display unit and a main power unit. For use in zone 2 for gas application, the main power unit shall be placed in an enclosure EPL Gc and the display unit onto an enclosure EPL Gc. For use in zone 2 dust application, the main power unit shall be placed in an enclosure EPL Dc and the display unit onto an enclosure EPL Dc. The equipment has the following units in the series. The equipment has terminals for power connection, USB, Ethernet, RS-232, RS-422/485, HDMI, audio out and SD-Card slot on the rear of the equipment.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The equipment can be installed in an Ex p purged enclosure which provides at least IP4X ingress protection rating.
- The equipment shall be installed in an enclosure IP6X for marked tc and IP54 for marked nA.
- The equipment shall only be used in an area of not more than pollution degree 2, as defined in IEC 60664-1.
- Plugs and sockets shall not be separated while an explosive atmosphere may be present.
- The equipment presents a potential electrostatic hazard. The user shall therefore ensure that the equipment is not installed in a location where it may be subjected to external conditions which might cause a build-up of electrostatic charges.
- The equipment shall be used always in a vertical position.
- The equipment shall be supplied by an appropriately rated transient protective device that is set to a level not exceeding 140% of the peak rated voltage.
- The equipment shall be installed so as to be protected from mechanical impact.

Annex:

[IECEx_IECEx KSCP 22.0027X_Addendum.pdf](#)



Addendum to IECEx Certificate

Reference Number.....: **IECEx KSCP 22.0027X**

Issue.....: Issue 0

Description

The XGT Panel LXP series are human/machine interfaces which include a touch screen display unit and a main power unit. For use in zone 2 for gas application, the main power unit shall be placed in an enclosure EPL Gc and the display unit onto an enclosure EPL Gc. For use in zone 2 dust application, the main power unit shall be placed in an enclosure EPL Dc and the display unit onto an enclosure EPL Dc.

The equipment uses a aluminum die-casting enclosure with 320(W) mm x 261(H) mm x 81(D) mm dimensions. The equipment has a covered USB port on the front next to the screen for maintenance.

The equipment has plug and socket power connection and terminals for USB, Ethernet, RS-232, RS-422/485, HDMI, audio out and SD-Card slot on the rear of the equipment. The ambient temperature range is -10°C to + 50°C

The equipment has the following units in the series.

1. Display Unit

LXP-(A)(B)(C)(D)-EX		
Menu	Sign	Contents
(A) Type	D	Display Unit
(B) LCD Size	12	12.1" LCD
(C) Camera option	0	Supported
	1	Not supported
(D) Extended Type	0	Supported
	1	Not supported

2. Main Unit

LXP-(A)(B)(C)(D)-EX		
Menu	Sign	Contents
(A) Type	M	Main Unit
(B) Runtime option	0	Supported
	1	Not supported
(C) Extended Type	0	Supported
	1	Not supported
(D) Power	D	DC 24V

The external view is shown as figures below and the equipment provides various interfaces as shown below. The cover is secured using fixed bracket with tightening force 6.7 kgf/cm.

The equipment has the following marking and warning:

Item	Detail
Name of manufacturer	LS ELECTRIC Co., Ltd.
Manufacturer's name or Registered trade mark	LS ELECTRIC
Address of manufacturer	56, Samsung 4-gil, Mokcheon-eup, Dongnam-gu, Cheonan-si, Chungcheongnam-do, 31226, Korea, Republic of

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Product	XGT Panel
Type identification	LXP series; Main unit LXP M**D-EX, Display unit LXP-D****-EX
Serial number	530/yy/mm/dd/serial number
Certificate number	IECEX KSCP 22.0027X
Ex Marking:	Ex nA nC IIC T6 Gc Ex tc IIIC T85°C Dc
Temperature Range:	-10 °C ≤ Tamb ≤ + 50 °C
Rating	DC 24V, 16W
Warnings:	Potential electrostatic hazard – see instructions Do not remove or replace fuse when energised Do not connect or separate plugs or sockets in an explosive atmosphere

Conditions of manufacture:

- i. The equipment shall be subjected to dielectric strength test of 500 V(DC 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. Upon completion of the test, no breakdown shall occur.

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