

KSC POLAND Sp. z o.o.

TYPE EXAMINATION CERTIFICATE

(1)

(2) **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU**

(3) Type Examination
Certificate No.:

KSCP 22ATEX0022 X, Issue: 0

(4) Product:

XGT Panel LXP series

(5) Manufacturer:

LS ELECTRIC Co., Ltd.

(6) Address:

**56, Samsung 4-gil, Mokcheon-eup, Dongnam-gu,
Cheonan-si, Chungcheongnam-do, 31226, Korea,
Republic of**

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) KSC POLAND Sp. z o.o., certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.

The examination and test results are recorded in confidential Report No. **KSCP/AR/22/Q00223**

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018

EN 60079-15:2010

EN 60079-31:2014

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This Type Examination Certificate relates only to the design and construction of the specified equipment and not to specific items of equipment subsequently manufactured.

(12) The marking of the product shall include the following:



II 3 G Ex nA nC IIC T6 Gc or



II 3 D Ex tc IIIC T85°C Dc

Signature
President of the Board



Katowice, 25th May, 2022



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(15) Description of Product:

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 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 terminals for power connection, USB, Ethernet, RS-232, RS-422/485, HDMI, audio out and SD-Card slot on the rear of the equipment. Type series explanation:

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

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

Rating:

Rated voltage:

DC 24V,

Rated power:

16 W

Ingress protection

IP66

Ambient temperature:

-10 °C ≤ Ta ≤ + 50 °C



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(16) Report Number:

– **KSCP/AR/22/Q00223**

(17) Specific Conditions of Use:

- i. The equipment can be installed in an Ex p purged enclosure which provides at least IP4X ingress protection rating.
- ii. The equipment shall be installed in an enclosure IP6X for marked tc and IP54 for marked nA.
- iii. The equipment shall only be used in an area of not more than pollution degree 2, as defined in EN 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. 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.
- vi. The equipment shall be used always in a vertical position.
- vii. 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.
- viii. The equipment shall be installed so as to be protected from mechanical impact.

(18) Essential Health and Safety Requirements:

Essential Health and Safety Requirements are ensured by conformity with standards listed at item 9 of this certificate.

(19) Drawings and Documents:

– Documentation agreed, provided by manufacturer:

Title:	Drawing No.:	Rev. Level:	Date:
HMI_LXP-12inch	220225-LXP-12inch-G001	0.0	2022.02.25
HMI_LXP-12inch	220225-LXP-12inch-G002	0.0	2022.02.25
HMI_LXP-EX_Label	220225-LXP-Label-G004 sheet 1/3	0.0	2022.02.25
HMI_LXP-EX_Label	220225-LXP-Label-G004 sheet 2/3	0.0	2022.02.25
HMI_LXP-EX_Label	220225-LXP-Label-G004 sheet 2/3	0.0	2022.02.25
LXP Series_Naming_Std	220225-LXP-Naming_Std	0.0	2022.02.25
Ref_Circuit_LXP_1200	220225-LXP-1500DAEX-P001	0.0	2022.02.25
Ref_Main_LXP	220225-LXP-Main board	0.0	2022.02.25
Ref_Schematic_CPU I/F_LXP	220225-Schem-CPU IF sheet 1/3	0.0	2022.02.25
Ref_Schematic_CPU I/F_LXP	220225-Schem-CPU IF sheet 2/3	0.0	2022.02.25
Ref_Schematic_CPU I/F_LXP	220225-Schem-CPU IF sheet 3/3	0.0	2022.02.25
Ref_Schematic_EXT I/F_LXP	220225-Schem-EXT IF sheet 1/2	0.0	2022.02.25



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Ref_Schematic_EXT I/F_LXP	220225-Schem-EXT IF sheet 2/2	0.0	2022.02.25
Ref_Schematic_Comm_LXP	220225-Schem-Comm sheet 1/5	0.0	2022.02.25
Ref_Schematic_Comm_LXP	220225-Schem-Comm sheet 2/5	0.0	2022.02.25
Ref_Schematic_Comm_LXP	220225-Schem-Comm sheet 2/5	0.0	2022.02.25
Ref_Schematic_Comm_LXP	220225-Schem-Comm sheet 4/5	0.0	2022.02.25
Ref_Schematic_Comm_LXP	220225-Schem-Comm sheet 5/5	0.0	2022.02.25
Ref_Schematic_RTC_LXP	220225-Schem-RTC sheet 1/2	0.0	2022.02.25
Ref_Schematic_RTC_LXP	220225-Schem-RTC sheet 2/2	0.0	2022.02.25
Ref_Schematic_Power_LXP	220225-Schem-Power	0.0	2022.02.25
Ref_Schematic_Media_LXP	220225-Schem-Media sheet 1/2	0.0	2022.02.25
Ref_Schematic_Media_LXP	220225-Schem-Media sheet 2/2	0.0	2022.02.25
Ref_Schematic_Storage_LXP	220225-Schem-Storage	0.0	2022.02.25
Ref_Schematic_Boot_LXP	220225-Schem-Boot	0.0	2022.02.25
Ref_PL_Main_LXP	220225-PL-Mainboard sheet 1/5	0.0	2022.02.25
Ref_PL_Main_LXP	220225-PL-Mainboard sheet 2/5	0.0	2022.02.25
Ref_PL_Main_LXP	220225-PL-Mainboard sheet 3/5	0.0	2022.02.25
Ref_PL_Main_LXP	220225-PL-Mainboard sheet 4/5	0.0	2022.02.25
Ref_PL_Main_LXP	220225-PL-Mainboard sheet 5/5	0.0	2022.02.25
Refer to Ref_SOM_LXP	220225-Schem-SOM-0001 sheet 1/8	0.0	2022.02.25
Refer to Ref_SOM_LXP	220225-Schem-SOM-0001 sheet 2/8	0.0	2022.02.25
Refer to Ref_SOM_LXP	220225-Schem-SOM-0001 sheet 3/8	0.0	2022.02.25
Refer to Ref_SOM_LXP	220225-Schem-SOM-0001 sheet 4/8	0.0	2022.02.25
Refer to Ref_SOM_LXP	220225-Schem-SOM-0001 sheet 5/8	0.0	2022.02.25
Refer to Ref_SOM_LXP	220225-Schem-SOM-0001 sheet 6/8	0.0	2022.02.25
Refer to Ref_SOM_LXP	220225-Schem-SOM-0001 sheet 7/8	0.0	2022.02.25
Refer to Ref_SOM_LXP	220225-Schem-SOM-0001 sheet 8/8	0.0	2022.02.25
Ref_PL_SOM_LXP	220225-PL-SOM sheet 1/2	0.0	2022.02.25
Ref_PL_SOM_LXP	220225-PL-SOM sheet 2/2	0.0	2022.02.25
Ref_IF_LXP	220225-Schem-IF-0001 sheet 1/6	0.0	2022.02.25
Ref_IF_LXP	220225-Schem-IF-0001 sheet 2/6	0.0	2022.02.25
Ref_IF_LXP	220225-Schem-IF-0001 sheet 3/6	0.0	2022.02.25
Ref_IF_LXP	220225-Schem-IF-0001 sheet 4/6	0.0	2022.02.25
Ref_IF_LXP	220225-Schem-IF-0001 sheet 5/6	0.0	2022.02.25
Ref_IF_LXP	220225-Schem-IF-0001 sheet 6/6	0.0	2022.02.25
Refer to Ref_PL_IF_LXP	220225-LXP-PL sheet 1/3	0.0	2022.02.25



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Refer to Ref_PL_IF_LXP	220225-LXP-PL sheet 2/3	0.0	2022.02.25
Refer to Ref_PL_IF_LXP	220225-LXP-PL sheet 3/3	0.0	2022.02.25
Ref_USB/Camera_LXP	220225-Schem-USB	0.0	2022.02.25
Ref_USB/Camera_LXP	220225-LXP-PL	0.0	2022.02.25
Ref_Ref_DSP_1200_LXP	220225-PL-DSP-0001	0.0	2022.02.25
Ref_SMPS_LXP	220225-Schem-SMPS-0001	0.0	2022.02.25
Ref_SMPS_LXP	220225-Schem-SMPS-0002	0.0	2022.02.25
Ref_PL_SMPS_LXP	220225-PL-SMPS sheet 1/2	0.0	2022.02.25
Ref_PL_SMPS_LXP	220225-PL-SMPS sheet 2/2	0.0	2022.02.25
Ref_Plug&socket_LXP	220225-LXP-PL-Plug&Socket	0.0	2022.02.25
Ref_Specification_LXP	220225-LXP-Spec-001	0.0	2022.02.25
Ref_Specification_LXP	220225-LXP-Spec-002	0.0	2022.02.25
Ref_Test Standard_LXP	220225-LXP-STD-001	0.0	2022.02.25
Ref_Wire_LXP	220225-LXP-Wire-001	0.0	2022.02.25
Ref_Wire_iXP2	220225-LXP-Wire-002	0.0	2022.02.25
Ref_Wire_iXP2	220225-LXP-Wire-003	0.0	2022.02.25

– Instruction Manual:

Title:	Document No.:	Rev. Level:	Date:
XGT PANEL HW Manual_LXP (136 sheets)	LXP Series	V1.0	'22.03

A detailed list of documents necessary to identify the approved type is included in the Report referred to in point 16 of this certificate.

This certificate is issued for the product type, the characteristics of which are detailed in the this certificate. Subsequent production items are not covered by the certification body's conformity assessment. The manufacturer is solely and fully responsible for conformity of all products to all applicable Standards, specifications, requirements or Directives.

(20) Certificate history:

Issue	Issue date	Notes
0	25 th May, 2022	Initial certification

