Type Examination Certificate CML 18ATEX3266X Issue 1

1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

2 Equipment **XGT Panel HMI**

3 Manufacturer **LSIS Co. Ltd**

4 Address **56, Samsung 4 Gil**
Mokcheon-eup,
Chungcheongnam Do,
Korea

5 The equipment is specified in the description of this certificate and the documents to which it refers.

6 Certification Management Limited, Unit 1 Newport Business Park, New Port Road, Ellesmere Port CH65 4LZ, UK, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design of equipment intended for use in potentially explosive atmospheres given in Annex II of Directive 2014/34/EU.

The examination and test results are recorded in the confidential reports listed in Section 12.

7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of certification (affecting correct installation or safe use). These are specified in Section 14.

8 This Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Annex VIII apply to the manufacture of the equipment or component.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN 60079-0:2012 EN 60079-15:2010 EN 60079-31:2014

10 The equipment shall be marked with the following:

Ex II 3 G D

Ex nA IIC T5 Gc

Ex tc IIIC T100°C Dc

Ta= 0°C≤Ta≤+50°C

R C Marshall
Certification Officer

This certificate shall only be copied in its entirety and without change

11 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.

Variation 1

This variation introduces the following modification:

i. Update the label to correct typographical errors.

12 Certificate history and evaluation Reports

Issue	Date	Associated report	Notes
0	30 Aug 2018	R11691A/00	Issue of Prime Certificate
1	15 Nov 2018	R11691A/01	Introduction of Variation 1

Note: Drawings that describe the equipment or component are listed in the Annex.

13 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 1,500V(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.

14 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 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.

Certificate Annex

Certificate Number	**CML18ATEX3266X**
Equipment	**XGT Panel HMI**
Manufacturer	**LSIS Co. Ltd**

The following documents describe the equipment or component defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
180418-iXP2-1500DAEX-G001	1 of 1	0.0	30 Aug 2018	HMI_iXP-1500-D/A-EX_General
180817-iXP2-1500DAEX-G001	2 of 2	0.0	30 Aug 2018	HMI_iXP-1500-D/A-EX_General
180425-iXP2-1200DAEX-G001	1 of 1	0.0	30 Aug 2018	HMI_iXP-1200-D/A-EX_General
180425-iXP2-1000DAEX-G001	1 of 2	0.0	30 Aug 2018	HMI_iXP-1000-D/A-EX_General
180425-iXP2-0800DAEX-G001	1 of 2	0.0	30 Aug 2018	HMI_iXP-0800-D/A-EX_General
180418-iXP2-1500DAEX-B001	1 of 2	0.0	30 Aug 2018	HMI_iXP2-0800/1000/1200/1500-D/A-EX_Label
180814-iXP2-1500DAEX-L001	2 of 2	0.0	30 Aug 2018	HMI_iXP2-0800/1000/1200/1500-D/A-EX_Label
180425-iXP2-Touch Part	1 of 1	0.0	30 Aug 2018	HMI-iXP2-Touch Part
180418-iXP2-1500DAEX-P001	1 of 1	0.0	30 Aug 2018	Ref_PCB_iXP2- 8000/1000/1200/1500
180418-iXP2-1500DAEX-P002	1 of 1	0.0	30 Aug 2018	Ref_PCB_iXP2- 8000/1000/1200/1500
180418-iXP2-Schem-M0001	1 of 13	0.0	30 Aug 2018	Ref_Schematic_Main_iXP2
180418-iXP2-Schem-M0002	2 of 13	0.0	30 Aug 2018	Ref_Schematic_Main_iXP2
180418-iXP2-Schem-M0003	3 of 13	0.0	30 Aug 2018	Ref_Schematic_Main_iXP2
180418-iXP2-Schem-M0004	4 of 13	0.0	30 Aug 2018	Ref_Schematic_Main_iXP2
180418-iXP2-Schem-M0005	5 of 13	0.0	30 Aug 2018	Ref_Schematic_Main_iXP2
180418-iXP2-Schem-M0006	6 of 13	0.0	30 Aug 2018	Ref_Schematic_Main_iXP2
180418-iXP2-Schem-M0007	7 of 13	0.0	30 Aug 2018	Ref_Schematic_Main_iXP2
180418-iXP2-Schem-M0008	8 of 13	0.0	30 Aug 2018	Ref_Schematic_Main_iXP2
180418-iXP2-Schem-M0009	9 of 13	0.0	30 Aug 2018	Ref_Schematic_Main_iXP2
180418-iXP2-Schem-M0010	10 of 13	0.0	30 Aug 2018	Ref_Schematic_Main_iXP2
180418-iXP2-Schem-M0011	11 of 13	0.0	30 Aug 2018	Ref_Schematic_Main_iXP2
180418-iXP2-Schem-M0012	12 of 13	0.0	30 Aug 2018	Ref_Schematic_Main_iXP2
180418-iXP2-Schem-M0013	13 of 13	0.0	30 Aug 2018	Ref_Schematic_Main_iXP2
180418-iXP2-Schem-B001	1 of 2	0.0	30 Aug 2018	Ref_Schematic_Battery_iXP2
180418-iXP2-Schem-B002	2 of 2	0.0	30 Aug 2018	Ref_Schematic_Battery_iXP2
180418-iXP2-Schem-C001	1 of 4	0.0	30 Aug 2018	Ref_Schematic_Commuication_iXP2
180418-iXP2-Schem-C002	2 of 4	0.0	30 Aug 2018	Ref_Schematic_Communication_iXP2
180418-iXP2-Schem-C003	3 of 4	0.0	30 Aug 2018	Ref_Schematic_Communication_iXP2
180418-iXP2-Schem-C004	4 of 4	0.0	30 Aug 2018	Ref_Schematic_Communication_iXP2
180418-iXP2-PL-0001	1 of 3	0.0	30 Aug 2018	Ref_PL_main_iXP2
180418-iXP2-PL-0002	2 of 3	0.0	30 Aug 2018	Ref_PL_main_iXP2
180418-iXP2-PL-0003	3 of 3	0.0	30 Aug 2018	Ref_PL_main_iXP2
180418-iXP2-Schem-FU001	1 of 1	0.0	30 Aug 2018	Ref_Schematic_Front_USB_iXP2
180418-iXP2-PL-FU001	1 of 1	0.0	30 Aug 2018	Ref_PL_Front_USB_iXP2

Certificate Annex

Certificate Number **CML18ATEX3266X**

Equipment **XGT Panel HMI**

Manufacturer **LSIS Co. Ltd**

Drawing No	Sheets	Rev	Approved date	Title
180418-iXP2-Schem-DC001	1 of 1	0.0	30 Aug 2018	Ref_Schematic_DCPower_iXP2
180418-iXP2-PL-DC001	1 of 1	0.0	30 Aug 2018	Ref_PL_DCPower_iXP2
180418-iXP2-Schem-AC001	1 of 1	0.0	30 Aug 2018	Ref_Schematic_ACPower_iXP2
180418-iXP2-PL-AC001	1 of 1	0.0	30 Aug 2018	Ref_PL_ACPower_iXP2
180418-iXP2-Spec-001	1 of 2	0.0	30 Aug 2018	Ref_Specification_iXP2
180418-iXP2-Spec-002	2 of 2	0.0	30 Aug 2018	Ref_Specification_iXP2
180418-iXP2-STD-001	1 of 1	0.0	30 Aug 2018	Ref_Test Standard_iXP2
180418-iXP2-Wire-001	1 of 3	0.0	30 Aug 2018	Ref_Wire_iXP2
180418-iXP2-Wire-002	2 of 3	0.0	30 Aug 2018	Ref_Wire_iXP2
180418-iXP2-Wire-003	3 of 3	0.0	30 Aug 2018	Ref_Wire_iXP2

Issue 1

Drawing No	Sheets	Rev	Approved date	Title
180817-iXP2-1500DAEX-L001	2 of 2	0.1	15 Nov 2018	HMI_iXP2-0800/1000/1200/1500-D/A-EX_Label