



# 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](http://www.iecex.com)

Certificate No.: **IECEx UL 23.0023X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2023-08-23

Applicant: **M2I Corporation**  
11-35 Simin-daero  
327beon-gil Dongan-gu Anyang-si,  
Gyeonggi-do, 14055  
**Korea, Republic of**

Equipment: **Industrial HMI Touch Panel, Models TOPRT1210SD-Ex, TOPRT1230XD-Ex, TOPRT1240XD-Ex**

Optional accessory:

Type of Protection: **Intrinsic Safety "ic", Increased Safety "ec"**

Marking: **Ex ic ec IIC T6 Gc**  
**-10°C ≤ Ta ≤ +50°C**

Approved for issue on behalf of the IECEx  
Certification Body:

**Katy A. Holdredge**

Position:

**Senior Staff Engineer**

Signature:  
(for printed version)

Date:  
(for printed version)

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Certificate issued by:

**UL LLC**  
**333 Pfingsten Road**  
**Northbrook IL 60062-2096**  
**United States of America**





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Page 2 of 3

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Manufacturing locations: **M2I Corporation**  
11-35 Simin-daero  
327beon-gil Dongan-gu Anyang-si,  
Gyeonggi-do, 14055  
**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 60079-11:2011** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

**IEC 60079-7:2017** Explosive atmospheres - Part 7: Equipment protection by increased safety "e"  
Edition:5.1

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:

[US/UL/ExTR23.0025/00](#)

Quality Assessment Report:

[US/UL/QAR22.0008/00](#)



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Certificate No.: **IECEx UL 23.0023X**

Page 3 of 3

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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

This industrial HMI touch panel is an industrial control device required in industrial field. It is a device based on RS 232C and RS 422/485, Ethernet which is used for the basic purpose of communication with another device (like a PLC, other industrial control device) incorporating Resistive-touch screen and rechargeable battery.

The TOPRT series consists of two modules together, a process module and a display module. In the process module, the model is determined by the combination of CPU assemblies (CPU, location of rechargeable battery and connector). There are two types of the display module for model TOPRT1210SD-Ex and for models TOPRT1230XD-Ex and TOPRT1240XD-Ex.

**Please see Annex for additional information.**

## **SPECIFIC CONDITIONS OF USE: YES as shown below:**

- The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1.
- Equipment shall be installed in a back enclosure with tool removable door or cover that provides a degree of protection not less than IP54 in accordance with IEC 60079-0.
- Provisions shall be made to prevent the rated voltage from being exceeded by transient disturbances of more than 140%.
- The equipment shall only be installed in locations where there is a low risk of mechanical damage.
- Touch the device after wiping the front panel with a damp cloth or wearing anti-static gloves, to avoid the electrostatic charges.

## **Annex:**

[Annex to IECEx UL 23.0023X Issue 0.pdf](#)



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Annex to Certificate No.:

IECEX UL 23.0023X

Issue No.: 0

## TYPE DESIGNATION

### NOMENCLATURE

Model	TOPRT	12	10	S	D	-	Ex	**
	I	II	III	IV	V		VI	VII

- I. TOPRT Series
- II. Screen Size  
12 – 12.1 inch
- III. Combined model:  
10 – TOPRP10D (process module) + TOPRD1220S (display module)
- IV. Resolution:  
S – XGA (1024\*768).
- V. Power:  
D - DC
- VI. Explosion proof  
Ex – Explosion proof or special model
- VII. Customer Option (for the Sensor/ Camera/ CPU type)  
Blank – Front sensor, Front camera, CPU type 1.  
01 – Front sensor, CPU type 1.  
02 – Front sensor, Front camera, CPU type 2.  
03 – Front sensor, Front camera, CPU type 3.  
04 – Front sensor, CPU type 2.  
05 – Front sensor, CPU type 3.  
06 – Front camera, CPU type 1.  
07 – CPU type 1.  
08 – Front camera, CPU type 2.  
09 – Front camera, CPU type 3.  
10 – CPU type 2.  
11 – CPU type 3.

Model	TOPRT	12	30	X	D	-	Ex	**
	I	II	III	IV	V		VI	VII

- I. TOPRT Series
- II. Screen Size  
12 – 12.1 inch



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Annex to Certificate No.:

IECEx UL 23.0023X

Issue No.: 0

- III. Combined model:  
30 – TOPRP10D (process module) + TOPRD1230X (display module)
- IV. Resolution:  
X – XGA (1024\*768)
- V. Power:  
D - DC
- VI. Explosion proof  
Ex – Explosion proof or special model
- VII. Customer Option (for the camera/ touch sensor type)  
Blank – Front camera, Resistive touch.  
01 – Resistive touch.  
02 – Front camera, Capacitive touch.  
03 – Capacitive touch.

Model	TOPRT	12	40	X	D	-	Ex	**
	I	II	III	IV	V		VI	VII

- I. TOPRT Series
- II. Screen Size  
12 – 12.1 inch
- III. Combined model:  
40 – TOPRP50D (process module) + TOPRD1230X (display module)
- IV. Resolution:  
X – XGA (1024\*768)
- V. Power:  
D - DC
- VI. Explosion proof  
Ex – Explosion proof or special model
- VII. Customer Option (for the camera/ touch sensor type)  
Blank – Front camera, Resistive touch.  
01 – Resistive touch.  
02 – Front camera, Capacitive touch.  
03 – Capacitive touch.