



# 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.:	<b>IECEx UL 22.0050X</b>	Page 1 of 4	<u>Certificate history:</u>
Status:	<b>Current</b>	Issue No: 2	<a href="#">Issue 1 (2023-12-11)</a> <a href="#">Issue 0 (2022-08-30)</a>
Date of Issue:	2024-03-07		
Applicant:	<b>M2I Corporation</b> 11-35 Simin-daero 327beon-gil Dongan-gu Anyang-si, Gyeonggi-do, 14055 <b>Korea, Republic of</b>		
Equipment:	<b>Industrial HMI Touch Panel, Models TOPRX1200XD-Ex, TOPRX1200SD-Ex, TOPRX1500XD-Ex, TOPRX1000SD-Ex, TOPRX1000VD-Ex.</b>		
Optional accessory:			
Type of Protection:	<b>Increased Safety "ec", Intrinsic Safety "ic"</b>		
Marking:	Ex ic ec IIC T6 Gc -10°C ≤ Ta ≤ +50°C		

Approved for issue on behalf of the IECEx  
Certification Body:

**Lucy Frieders**

Position:

**Staff Engineer**

Signature:  
(for printed version)

Date:  
(for printed version)

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Certificate issued by:

**UL Solutions (US)**  
333 Pfingsten Road  
Northbrook IL 60062-2096  
**United States of America**





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

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 Reports:

**US/UL/ExTR22.0054/00**

**US/UL/ExTR22.0054/01**

**US/UL/ExTR22.0054/02**

Quality Assessment Report:

**US/UL/QAR22.0008/01**



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

These industrial HMI touch panels are industrial control devices used in industrial field. They are devices 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.

All models are similar construction except for LCD/Enclosure size including LCD bracket, Main board and Power Board LCD connection location and Backlight connections.

**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 IP 54 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 contacting antistatic pad or wearing earth ring to avoid the electrostatic charges.



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

Issue 1: Updated label, BOM drawings and Manual.

Issue 2: Updated Label information.

**Annex:**

[Annex to IECEx UL 22.0050X Issue 2.pdf](#)



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Annex to Certificate No.:

IECEX UL 22.0050X

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## **TYPE DESIGNATION**

NOMENCLATURE:

Model	TOPRX	12	00	S	D	-	Ex	**
	I	II	III	IV	V		VI	VII

- I. TOPRX Series
- II. Display Size  
10 – 10.4 inch only for 10 inch display size  
12 – 12.1 inch only for 10 and 12 inch display sizes  
15 – 15 inch only for 12 and 15 inch display sizes
- III. Option:  
00 – Standard
- IV. Resolution:  
V – VGA (640\*480)  
S – SVGA (800\*600)  
X – XGA (1024\*768)
- V. Power:  
D - DC
- VI. Explosion proof  
Ex – Explosion proof or special model
- VII. Customer Option (Not affecting to the protection method)  
Blank or \*\* - Any alphanumeric number.

## **PARAMETERS RELATING TO THE SAFETY**

TOPRX1000SD-Ex, TOPRX1000VD-Ex: 20-28Vdc, 12W (Class 2)

TOPRX1200XD-Ex, TOPRX1200SD-Ex: 20-28Vdc, 15W (Class 2)

TOPRX1500XD-Ex: 20-28Vdc, 18W (Class 2)