

[1]

TYPE EXAMINATION CERTIFICATE



[2]

Equipment or Protective System intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

[3] Type Examination Certificate Number: **UL 25 ATEX 3389X Rev. 0**

[4] Product: **Industrial HMI Touch Panel, Model TOPRT1550WD-Ex*** and TOPRT1950WD-Ex*****
*** - may be followed by any digits, or letters

[5] Manufacturer: **M2I Corporation**

[6] Address: **11-35 Simin-daero 327beon-gil Dongan-gu, Anyang-si, Gyeonggi-do, 14055 Korea**

[7] This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] UL International Demko A/S 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. **US/UL/ExTR25.0043/00.**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018

EN 60079-7:2015

EN IEC 60079-7:2015/A1:2018

Where additional criteria beyond those given here have been used, they are listed at item 18 in the Schedule.

[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed under item 17 of this certificate.

[11] This Type examination certificate relates only to the design of the specified product, and not to specific items of product subsequently manufactured.

[12] The marking of the product shall include the following (marking is provided in the Schedule as a part of item 15, if applicable):

 **II 3 G Ex ec IIC T6 Gc**

Certification Manager
Thomas Wilson

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2025-04-29

Certification Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark
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[14]

Schedule

TYPE EXAMINATION CERTIFICATE No.

UL 25 ATEX 3389X Rev. 0

[15] Description of Product:

This industrial HMI touch panel, TOPRT Series is an industrial control device required in industrial field and intended to be flush mounted through enclosure opening with the terminal facing inside the final enclosure (Panel-mount). The class 2 power is supplied via non-standardized connector located on rear side of device. The device has RS 232C and RS 422/485, Ethernet ports which is used for the basic purpose of communication with another Device (PLC).

Nomenclature:

Model	TOPRT	00	50	W	D	-Ex	***
	I	II	III	IV	V	VI	VII

- I. TOPRT Series
- II. Screen Size
15 – 15.0 inch
19 – 18.5 inch
- III. Option:
50 – Standard
- IV. Resolution:
W – WXGA (1366*768)
- V. Power:
D – DC
- VI. Anti-Explosion
Ex – Explosion proof or special model
- VII. *** – Not affecting the protection method
Blank, digits, or letters

The optical radiation output of the product with respect to explosion protection, according to Annex II clause 1.3.1 of the Directive 2014/34/EU is covered in this certificate based on Exception 1) to the scope of EN 60079-28:2015.

Temperature range:

The ambient temperature range is -10 °C to +50 °C.

Electrical data:

Input Voltage Range: 20V~28Vdc , 40 W (Class 2)

Routine tests:

N/A

[16] Descriptive Documents:

The scheduled drawings are listed in the report no. provided under item no. 8 on page 1 of this Type Examination Certificate.

[17] Specific conditions of use:

- The equipment shall only be used in an area of at least pollution degree 2, as defined in EN 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 EN 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 charge.

[18] Essential Health and Safety Requirements:

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

Additional information

The models TOPRT 1550WD-Ex*** and TOPRT 1950WD-Ex*** have in addition passed the tests for Ingress Protection to IP 54 in accordance with EN60529:1991+A1:2000+A2:2013.

The trademark  or  will be used as the company identifier on the marking label.