

# **M2I Corporation**

# Industrial HMI Touch Panel TOPRT(W) Series

**Hardware Manual** 

Thank you for purchasing the industrial HMI touch panel series of M2I corporation.

Please read this manual carefully to know installing, wiring, operating this equipment for safe use of this product.

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# **Chapter 1 Safety Precautions**

#### ■ Before using the product

To use the product safely and effectively, please read the contents of this manual thoroughly before use. Please keep to the safety precaution, for it is to prevent accidents and potential danger from occurring. Safety precaution is classified into 'Warning' and 'Caution' and their meanings are as follows. Also, the indicated illustrations on the product and in the manual have the following meanings.

<b>Warning</b>	Violating the instruction may result in serious personal injury or death
<b>Caution</b>	Violating the instruction may result in slight personal injury or product damage
0	Be cautious, for danger may be present
0	Be cautious, for there is a possibility of an electric shock

# ■ General Precautions ▲Caution

Do not install the location which exceeds allowed temperature. Product can be damaged or shorten the life. Especially Install environment as below should be avoided.

- O Do not press the screen with a hard or sharp object(awl, screwdriver, pen) with too strong a force. It may cause malfunction of touch due to damage of the front sheet.
- igotimes Do not use or store in an environment with high vibration.
- ① Do not allow foreign objects such as water, liquids, or metal powders to enter the product. This may cause breakage or electric shock.
- igwedge Use the radio or mobile phone at least 30cm away from the main unit.
- Two or fewer bright spots may appear on the LCD screen, and certain areas may appear brighter, but this is not a defect in LCD characteristics.
- Do not store or operate in direct sunlight. Direct sunlight can change the properties of the LCD. WARNING DO NOT CONNECT OR DISCONNECT WHEN ENERGIZED. or equivalent.

  AVERTISSEMENT NE PAS CONNECTER OU DÉCONNECTER LORSQUE L'ÉQUIPEMENT EST SOUS TENSION.

# 

Install protection circuit on the outside of Products to protect the entire control system when external power supply or Products have problems.

- ① As the malfunction & incorrect result of Products could damage the stability of the entire systems and human body, you must install damage preventing interlock circuit such as emergency stop, Protective circuits, positioning upper and lower limit switch and interlock for forward/reverse operation.
- When computer or other controllers communicate and exchange data with products or change operation mode of products, set up protective sequence program in PC or Controller for protecting system from communication error.
- The output signal or communication lines should be separated from the power line or high-tension wire. They should be installed 100mm(3.94 Inch) or more from each other.

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- Wiring Precautions **Marning**
- Be sure the wiring is done correctly by checking the product's rated voltage and the terminal layout. Incorrect wiring could result in fire, damage or malfunctions.
- Tighten the terminal screw with the specified torque. If the screws of terminal are loose, it could result in short circuit, fire, malfunctions.

FG Terminal must be used a dedicated ground. Not doing so could result in malfunctions.

- 1 a. Grounding should be the Class 3 grounding. The cable for grounding should be more than 2mm².
- 1 b. grounding point be closed to the products and make short the distance to the ground cable if possible.

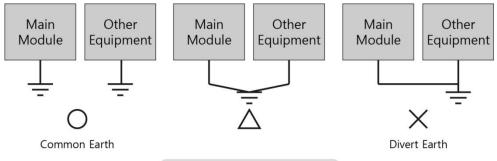


Fig. Grounding Example Diagram

#### ■ Installation Precautions

Do not install the location which exceeds allowed temperature. Product can be damaged or shorten the life. Especially Install environment as below should be avoided.

- Do not Install product to the place which the ambient temperature is out of limits, from -10 ~ 50℃ or on the surface of control board which high pressure equipment is installed.
- igotimes Do not install to the place where strong shock or vibration continuously have impacted on product.
- OD not store or operate in direct sunlight. Direct sunlight can change the properties of the LCD.
- Note: The second of the second
- $\bigcirc$  Use the product under 2000M altitude.

#### ■ Disposal Precaution

When you dispose of product and battery, please treat it as industrial waste. It can create poisonous substances or explosion.

# 

A CR2032 internal battery on Mainboard cannot be replaced by the user. If the battery has run out of service, please contact our Customer Support Center for replacement and inspection.

Item	Information
Voltage and capacity	DC 3.0V, 225mAh
Model name and manufacturer	CR2032(Lithium Battery), Panasonic
Lifetime	More than 2 years (In case of ambient temperature 25°C)

<sup>\*</sup> The specifications are subject to change depending on the model.

■ All field-wiring connections to this unit shall be from Limited Voltage / Limited Current, below 20 ~ 28Vdc isolated secondary source with an output fuse, or Class 2 secondary circuits.

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#### 2.1 Introduction of Products

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(PLC).

## 2.2 Package Contents

The components of the product are as follows.

Before using the product, please check that all of the following components are included.

Item	Figure	Quantity
Product and User Manual	150 D D D D	Each 1
Power Connector and COM3 communication connector		Each 1
Mounting Clamp		12
Cable Clamp and Cable Tie	The Market	HDMI: 1 USB: 2
Accessories (Sold separate)	USB Memory USB Extension Cable SD Card	User Options

## 2.3 Explanation of Model name

Series	Screen Size	Option	Resolution	Power	Anti-Explosion	Blank	Etc
TOPRT(W)	15: 15.0" 19: 18.5"	50: Standard	W: WXGA (1366x768)	D: DC	Ex: Explosion proof or special model Blank: Non-explosion proof or general model		* \( \subseteq \subseteq : Not related to anti-explosion, show as blank, digits, or letters \) 01: Wi-Fi, BT spec exclusion

<sup>\* 01:</sup> Not support W-iFi and Bluetooth

# **Chapter 3 General Specifications**

## **3.1 Power Specifications**

Rated voltage	DC 24V, Class2		
Input Voltage Range	DC 20~28V, Class 2		
	TOPRT1550WD		
D	TOPRT1550WD 01	4014	
Power Consumption	TOPRT1950WD	40W	
	TOPRT1950WD 01		
Voltage endurance	DC 24V, within 10ms		
Insulation Resistance	500V DC, 10MΩ		

## 3.2 Memory Specifications

Screen Memory	128MB
Backup Memory	512KB: System buffer(10K Word),Including Alarm/Log/Recipe
Backup Period	Permanent
Real Time Clock	Built in(by Battery)

## 3.3 Display Specifications

Color	16M Colors
Brightness Level	10 Level(by software)
Backlight Type	LED
Backlight Life	50,000 hours
Display Font	MS Windows Vector font possible Image font
Front LED Indicate	Built in

## 3.4 Touch Specifications

Touc	Capacitive Touch Sensor
	 · ·

## 3.5 Sub Function Specifications

Front Camera	Built-in, Resolution: VGA(640*480)
Proximity Sensor	Built-in, Sensing Distance 0.7M
HDMI Output	HDMI V2.0, Max 1366 x 768
AUDIO Output	3.5mm AUDIO JACK Output

## 3.6 Wireless Communication Specifications (Not applicable to the 01 model)

IrDA	Compliant to IrDA physical	layer standard up to 115.2kbit /s(SIR), 0.7M@ Open space communication,			
IIDA		M2I HMI dedicated communication			
	Spectrum Band	2402Mhz ~ 2480Mhz			
Bluetooth	Standard	Bluetooth® 5.0 Low Energy (BLE)			
	Transmit Speed	1Mbps@Typ			
	Maximum Power	+0.55dBm (Including Antenna gain)			
	Operation Area	5M or more (*flat-ground communication)			
	Security (*AP Setting)	WEP(64/128), WPA-PSK+(TKIP, AES), WPA2-PSK+(TKIP, AES) *AES Recommend			

	2.4 GHz	Freq. Range	2400Mhz ~ 2483.5Mhz	
		Standard	IEEE 802.11b/g/n Wi-Fi compliant	
		Spectrum Band	20/40 MHz	
		Transmit Speed	300Mbps@Max	
	5 GHz	Freq. Range	5150Mhz ~ 5725Mhz	
Wi-Fi		Standard	IEEE 802.11a/n Wi-Fi compliant	
VVI-FI		Spectrum Band	20/40MHz	
		Transmit Speed	300Mbps@Max	
	Mayi	mum Dower	2.4G: +6.38dBm (Including Antenna gain)	
	Maximum Power		5G: +15.02dBm (Including Antenna gain)	
	Operation Area		20M 이상 (*flat-ground communication)	
	Security (*AP Setting		WEP(64/128), WPA-PSK+(TKIP, AES), WPA2-PSK+(TKIP, AES) *AES Recommend	

## 3.7 Antenna Information (Not applicable to the 01 model)

Gain	2.4GHz: Peak gain -6.02dBi, 5GHz: Peak gain +2.98dBi
Antenna Type	Internal Antenna

## 3.8 Environment Specifications

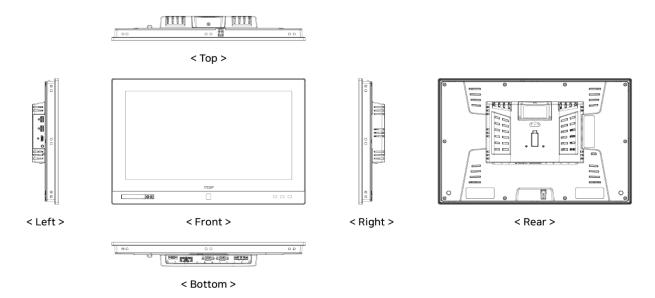
Operation Temperature(°C)	-10 ~ +50
Storage Temperature(°C)	-20 ~ +60
Operation Humidity(%RH)	0 ~ 90 (No dew)
Atmosphere	No corrosive gas
Vibration Endurance	Amplitude: 10≤F < 25Hz(2G) X,Y,Z each direction(for 30 minutes)
Noise Immunity	1000Vp-p(Pulse width 1µs)
Static Electricity Discharge	Connective discharge from EN61000-4-2: ±4kV
Shock Endurance	10G X,Y,Z each direction(for 3 times)
Ground Connection	Class 3(Under $100\Omega$ )
Protection Classification	Front IP54

## **3.9 Structure Specifications**

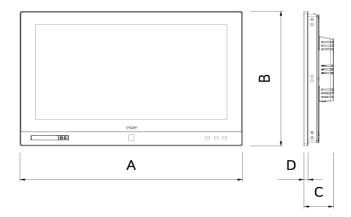
Madal	TOPRT1550WD	TOPRT1950WD	
Model	TOPRT1550WD 01	TOPRT1950WD 01	
Weight (Kg)	4.10	5.30	
Cooling System	Natural air circulation		
Case Material	Aluminum + Plastic		

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## 4.1 TOPRT(W) Series



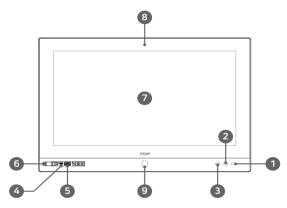
#### 4.1.1 External Dimension



(mm)

Model Name	А	В	С	D
 TOPRT1550WD	406.4	200.4	(2.5	
TOPRT1550WD 01	406.4	286.4	63.5	7
TOPRT1950WD	477.4	220.4	() [	7
TOPRT1550WD 01	477.4	328.4	63.5	

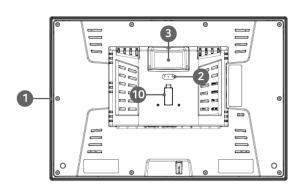
## 4.1.2 Front Part Names and Specifications

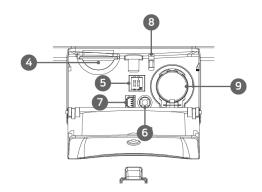


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		TOTICI (W) Series Hardware Mandal		
No.	Title	Description		
1	Power LED	System power status LED		
2	IrDA Sensor	Communication device for dedicated product		
3	Proximity Sensor	Automatically backlight ON/OFF by sensing object coming		
4	USB OTG	Project file upload/download (*Internal program managing purpose)		
(5)	USB HOST	USB Connector, 5V/0.5A output		
6	Front USB Cover	Front USB Cover(*Internal program managing purpose)		
7	LCD	TFT 16M Color LCD		
8	Touch Panel	Capacitive touch sensor		
9	Camera	Resolution: VGA(640*480)		

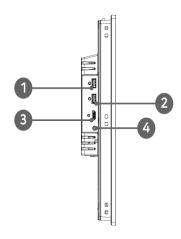
## 4.1.3 Rear Part Names and Specifications





No.	Title	Form	Description
1	Rubber Gasket	-	Shock absorbing and IP specifying silicon gasket
2	LED Indicator	3EA	Power, Operation, Communication status display
3	SD Card Cover	Plastic Cover	SD Card, Reset switch, Mode switch, CR2032 battery
4)	SD Card Socket	SD Socket	Project or Log data file upload/download
(5)	Mode Switch	DIP Switch 2pole	System mode setting switch
6	Reset Switch	Tact Switch	System reset switch
7	Diagnosis Connect	2mm 4P	System diagnosis (Manufacturer use only)
8	Cover Sensor	Photo coupler	Cover open/close sensing
9	RTC Battery	CR2032	RTC battery
10	Ext. Module Connector	-	Extension module install connector's cover

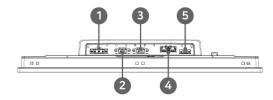
## 4.1.4 Side Part Names and Specifications



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N	0.	Title	Form	Description		
	1)	USB HOST #1 Type A		USB HOST #1 Type A Connector #1 for USB saving options		Connector #1 for USB saving options
(2	2)	USB HOST #2	Type A	Connector #2 for USB saving options		
(3	3	HDMI Standard HDMI		HDMI Output, external display device connection (TV/Monitor)		
(4	4)	AUDIO	3.5mm Audio Plug	AUDIO output, external speaker connection		

## 4.1.5 Bottom Part Names and Specifications



No.	Title	Form	Description
1	Power Terminal	TB 7.6mm 3P	Power supply for product
2	Serial COM1	DSUB9	RS-232C/422/485 serial comm. (select by software)
3	Serial COM2	DSUB9	RS-232C/422/485 serial comm. (select by software)
4	ETHERNET Connector	RJ45 x 2ch	10BASE-T/100BASE-TX/1000BASE-T, Auto-MDIX
(5)	Serial COM3	TB 3.5mm 3P	RS-485 serial communication connector

# **Chapter 5 Interface**

In order for the main unit to communicate with an external device, it is necessary to connect the two devices by referring to the following.

## 5.1 Serial Interface

## 5.1.1 RS-232C

ltem		Description		
Pr	rotocol	Full Duplex		
S	Synch.	Asynchronous		
Communic	cation Distance	about 15m		
Type of connection		1:1		
Control Code		ASCII Code or HEXA Code		
Baud Rate		2400, 4800, 9600, 19200, 38400, 57600, 76800, 115200bps		
	Data Bit	7, 8bit		
Data Type	Parity Bit	NONE, ODD, EVEN Parity		
	Stop Bit	1, 2bit		
Connector		DSUB 9pin		

## 5.1.2 RS-422/485

Item	Description
Protocol	Full Duplex / Half Duplex
Synch.	Asynchronous
Communication Distance	about 500m

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Type of connection		1:N (N≤31)	
Control Code		ASCII Code or HEXA Code	
В	aud Rate	2400, 4800, 9600, 19200, 38400, 57600, 76800, 115200bps	
	Data Bit	7, 8bit	
Data Type	Parity Bit	NONE, ODD, EVEN Parity	
	Stop Bit	1, 2bit	
Terminating Resisters		100/120Ohm (select by software)	
Connector		DSUB 9pin	

## 5.1.3 COM1 Connector pin number and Signal name

Туре	Pin No.	Signal	Direction	Description
	1	RDA(RD+)	Input	RS-422/485 Receive Data(+)
	2	RD(RxD)	Input	RS-232C Receive Data
9Pin Female	3	SD(TxD)	Output	RS-232C Send Data
Ji iii i cinaic	4	RDB(RD-)	Input	RS-422/485 Receive Data(-)
	5	<sup>2)</sup> SG	-	Signal Ground
	6	SDA(SD+)	Output	RS-422/485 Send Data(+)
6	7	1) Power	-	+5V, 0.2A
	8	N.C	-	N.C
	9	SDB(SD-)	Output	RS-422/485 Send Data(-)

<sup>\* 1) 2)</sup> If VCC is required for an external device, connect pin 7(+ 5.0V) and pin 5. (\* 0.2A output)

## 5.1.4 COM2 Connector pin number and Signal name

Туре	Pin No.	Signal	Direction	Description
	1	RDA(RD+)	Input	RS-422/485 Receive Data(+)
	2	RD(RxD)	Input	RS-232C Receive Data
ODin Famala	3	SD(TxD)	Output	RS-232C Send Data
9Pin Female	4	RDB(RD-)	Input	RS-422/485 Receive Data(-)
	5	SG	-	Signal Ground
	6	SDA(SD+)	Output	RS-422/485 Send Data(+)
6	7	RTS	Output	RS-232C Request to Send
	8	CTS	Input	RS-232C Clear To Send
	9	SDB(SD-)	Output	RS-422/485 Send Data(-)

## 5.1.5 COM3 Connector pin number and Signal name

Туре	Pin No.	Signal	Direction	Description
3 2 1	1	D+	IN/OUTPUT	RS-485 Data (+)
3 2 1	2	D-	IN/OUTPUT	RS-485 Data (-)
	3	SG	-	Signal Ground

<sup>\*</sup> Be sure to connect the RD and SD to the RS-232C communication line by crossing each other with a Twisted Pair Cable. Please connect SG directly.

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<sup>\*</sup> RS-422/485 communication line must use RDA and RDB as Twisted Pair Cable, SDA and SDB as Twisted Pair Cable.

<sup>\*</sup> Communication cable's Shield cable cannot be used as communication ground. It can cause communication error.

## **5.2 Ethernet Communication Specifications**

## 5.2.1 Ethernet

Item	Description
Ethernet Method	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.ab, 10BaseT/100BaseT/1000BaseT
Speed	10M / 100Mbps / 1000Mbps
Communication Method	Base Band
Switching Method	AUTO MDIX
Maximum Segment Length	100M (between Hub)
Communication Cable	UTP (Unshielded Twisted Pair)
Modular Jack	RJ45 x 2ch

## 5.2.2 RJ - 45 Pin Layout

Туре	Pin No.	Color	100Base-T	1000Base-T
	1	Orange/White	TD+	DA+
	2	Orange	TD-	DA-
	3	Green/White	RD+	DB+
	4	Blue	-	DC+
	5	Blue/White	-	DC-
	6	Green	RD-	DB-
	7	Brown/White	-	DD+
	8	Brown	-	DD-

## \*Use UTP cable Cat 5e or Cat 6 for 1Gbps speed use.

* UTP Cable Comparison	Cat 5e	Cat 6
Speed	MAX. 1Gbps	MIN. 1Gbps
Range	100Mhz	250Mhz
Data Loss	Loss increase in 100M	No loss over 100M area

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## **5.3 USB Specifications**

## 5.3.1 Front USB Host

Туре	ltem	Specification
	USB Interface	USB 2.0
	Communication Method	Control/Bulk
1 2 3 4	Transfer Speed	Max 480Mb/s
	Support Device	USB Storage (FAT16/FAT32 File format)
	Connector Type	Туре А

## 5.3.2 USB Device

Туре	Item	Specification	
	USB Interface	USB 2.0	
	Communication Method	Interrupt/Bulk/Isochronous	
	Transfer Speed	Max 480Mb/s	
	Supportive OS	Windows 98SE/2000/XP/VISTA/7/10(32/64bit)	
	Cable Longth	M2I manufacturer's cable is recommended(3M), and 1.5M or less	
	Cable Length	when purchased separately	
	Connector Type	Mini USB B, Female	
	Connecting Method	Front, USB OTG connector	

## 5.3.3 Rear USB Host

Туре	ltem	Specification
	USB Interface	USB 3.0 (USB 3.2 Gen1 Super Speed)
	Communication Method	Control/Bulk
1 2 3 4	Transfer Speed	Max 5Gb/s
	Support Device	USB Storage (FAT16/FAT32 File format)
	Connector Type	Type A (2ch)

## **5.4 AUDIO Specifications**

Туре	Item	Specification
)	Output Spec.	Stereo audio
0	Connector Type	3.5mm Audio Plug

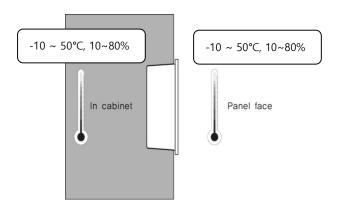
## 5.5 HDMI Specifications

Туре	Item	Specification
	HDMI Version	HDMI V2.0
HDMI (FEMALE)	Mode Selection	Mirror / Dual
	Resolution	Max 1366 x 768
	Connector Type	HDMI Type A

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## 6.1 Installation Requirements

- (1) It should be installed within -10 ~ 50°C and 10 ~ 80%RH, otherwise the screen may be changed or cause malfunction and damage.
- (2) Be sure that heat from surrounding equipment does not cause product to exceed its standard operating temperature.
- (3) In order to minimize external mechanical hazards, please control the mechanical hazards of the surrounding environment.

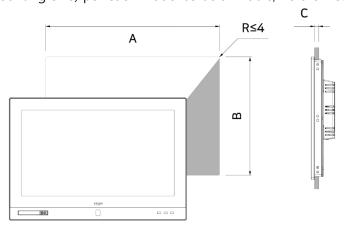


# 6.2 Install Procedure Marning

Please follow as below explanation to install the product.

#### 6.2.1 Panel Cut-out

Make a panel cut which product is mounted and insert the product to the panel form the front side. Making the Panel Cut (Mounting Size) per each model as below Table, Before Installation.



(mm)

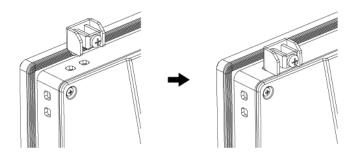
Model	А	В	С	
TOPRT1550WD	392(+0.5/0)	272(+0.5/0)		
TOPRT1550WD 01			1.0~5.0(+1.0/0)	
TOPRT1950WD	462(±0.570)	21// ( 0.5/0)	1.0 5.0(* 1.0, 0)	
TOPRT1950WD 01	463(+0.5/0)	314(+0.5/0)		

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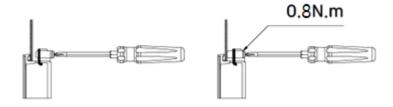
#### 6.2.2 Fixation

Installation methods should be following by using the supplied Mounting clamps.

a. Insert the clamp into the slot of the product.

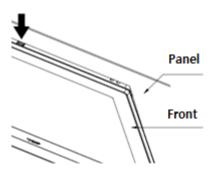


b. Screw the unit into the panel cut with a screwdriver.



If the clamping screw below is over-tightened, the touch sensor may stop working or malfunction. Tighten to 0.8N.m screwdriver torque.

Caution: IP performance cannot be secured if the clamp is not tightened with a tightening force of 0.8N.m.  $\Delta$ 

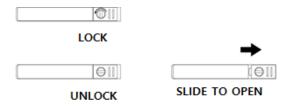


When you detach the product from a panel, please use tools like driver to push a lock part and detaching should be done slowly.

#### 6.3 Front USB

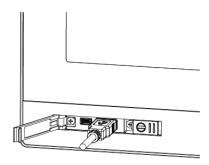
- 6.3.1 Open / Close of Font USB Cover
- (1) When you open a USB cover, you can connect MINI USB B cable.
- (2) This cover can be locked and unlocked by making rotation of lock rotary switch.
- \* Do not use USB in explosive circumstances. There can be an explosion during operation.

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#### 6.3.2 Data Upload and Download

You can download or Upload Project file data through USB interface.



# Chapter 7 Wiring Marning

## 7.1 Power Cable Wiring

(1) The Power cable should have the following specification.

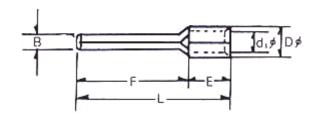
	5 1
Power Cable Specification	0.75~2.5mm² (18~12AWG)
F.G Cable Specification	2mm² (14AWG)
Conductor type	solid or stranded type (use copper conductor only)
Bolt torque	0.4 N.m <b>M</b> warning
Conductor length	7mm
Temperature rating of the field installed conductors	65℃

#### (2) The Power terminal should have the following specification.

Caution: The use of the \*\*Pin Terminal(ferrule) when installing the power supply and ground terminal is important for maintaining the performance of the device. Failure to install power and ground using the same \*\*Pin Terminal(ferrule) as below may cause explosion due to spark due to abnormal cable loss. Therefore, please be sure to familiarize yourself with how to use \*\*Pin Terminal(ferrule) below.

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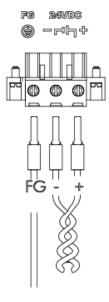
<sup>\*\*</sup> or equivalent



(mm)

В	L	F	Е	D	d
1.8~2.0	14~22	8~14	5	3.3~3.8	2~2.5

(3) Wiring of power is as follows. Marning

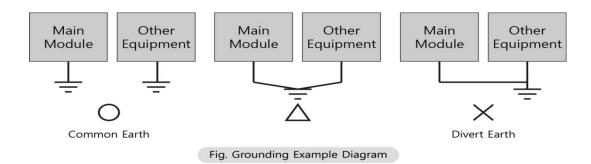


# 7.2 Ground wiring Marning

- (1) The product has enough anti-noise measure, so except that there are many noises. Specially, the ground is not needed. When doing ground, please refer to the followings.
- (2) The ground should be the exclusive ground.

The ground should be type class 3 ground (ground resistor is less than  $100\Omega$ ).

(3) When not doing the exclusive ground, do common ground like figure B)..



(4) Use the cable more than 2mm<sup>2</sup>. Put the point of the ground near product and shorten Ground line.

# Chapter 8 Maintenance Marning

#### 8.1 Cleaning the Display

When the surface or frame of the display become dirty, spray the cleaning solution onto a soft cloth and wipe

the device. Do not spray the cleaning solution directly onto the device.

#### 8.2 Periodic Check Points

Check the followings periodically for best condition of the device.

#### (1) Environment

- a. Is the operating temperature within the allowable range (-10~50°C)?
- b. Is the operating humidity within the allowable range (10~80%RH)?
- c. Is the Surrounding pollution no corrosive gas?

#### (2) Power

a. Is the input voltage within the change range?

#### (3) Related Items

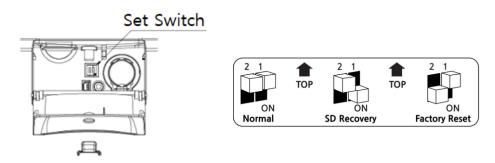
- a. Check an internal battery when an exchange or voltage drop is displayed.
- b. Check the guarantee duration of LCD Backlight by eye.
- c. Check the touch pad there is no damage, scratch or pollution by eye.

# 8.3 Problems with the Device $\Delta$ <sup>Warning</sup>

- a. If there is a problem during operation, stop using it and contact the A/S department of M2I Corporation, which is indicated on the product label.
- b. Only the authorized worker from M2I Corporation can check and repair problems related to malfunction of the machine.
- c. If the problem cannot be solved at the installation site, the equipment can be collected and moved to M2I Corporation.
- d. The manufacturer, M2I Corporation, is not responsible for damage or malfunction of the equipment caused by the use conditions of the user beyond the installation and use standards described in the manual.
- e. If there is a high electromagnetic noise, put ferrite core on main power cable and field cable. The noise of power cable and communication cables can be high under the installation circumstances.
- f. Please put ferrite cores on each side's end when USB or HDMI is not working by noise.

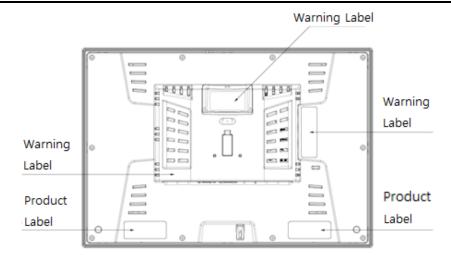
#### 8.4 Setting System Recovery Mode

- a. If the system fails to boot normally due to a problem during operation, the built-in recovery function can be used to maintain the factory default state. Please note that the built-in project will be deleted when using the recovery mode.
- b. After opening the rear cover, you can adjust the setting switch. Keep the "Normal" state when booting normally. If the system is recovering, turn off the power and set it to "Factory Reset".
- c. When the recovery is completed, the buzzer sounds, then turn off the power and reset to "Normal" state.

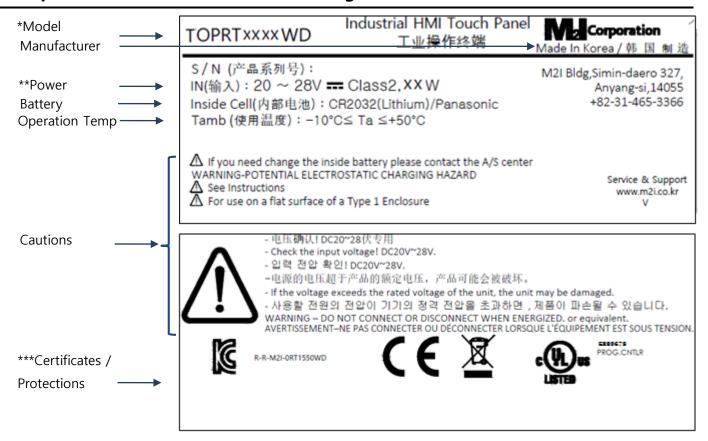


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## **Chapter 9 Products and Warning Label Location**



## **Chapter 10 Product Label and Warning Label**



#### \*Model Name \*\*Power Specifications:

- TOPRT1550WD, TOPRT1550WD 01: 24Vdc, 40W, Class 2 Power Only
- TOPRT1950WD, TOPRT1950WD 01: 24Vdc, 40W, Class 2 Power Only

\*\*\* These can be different depends on each model. Before model selection, make sure the details to M2I.

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Doc.No.: TOPRT(W) -D0003 Rev.0

- Please read related contents in this manual when you use M2I product, and operate the product staying safe with appropriate handling.
- This manual should be stored in secured and appointed place so that it can be read in any needs.