cMT3092X series

1 Installation and Startup Guide

This document covers the installation of cMT3092X Series HMI, for the detailed specifications and operation, please refer to Datasheet, Brochure and EasyBuilder Pro User Manual. Please read all warnings, precautions, and instructions on the device carefully before use.

Install Environment:

NEMA Rating	The HMI product is NEMA 4 rated (indoor use only).
Electrical Environment	The HMI product has been tested to conform to European CE requirements. This means that the circuitry is designed to resist the effects of electrical noise. This does not guarantee noise immunity in severe cases. Proper wire routing and grounding will insure proper operation.
Environmental Considerations	(1) Make sure that the displays are installed correctly and that the operating limits are followed. Avoid installing units in environments where severe mechanical vibration or shocks are present. (2) Do not operate the unit in areas subject to explosion hazards due to flammable gases, vapors or dusts. (3) Do not install the unit where acid gas, such as SO2 exists. (4) This device should be mounted in the vertical position and for use on the flat surface enclosure. (5) For use in Pollution Degree 2 Environment and dry location. (6) Relative Humidity: 10% ~ 90% (non-condensing)
Operating Altitude (Atmospheric Pressure)	Below 3,000 m (9842.52 ft.), atmospheric pressure is 70.1 kPa.
IP Rating	IP 66
Cleaning Considerations	Clean the device using dry cloths. Do not use liquid or spray detergents for cleaning.
⚠ Warning	Protection impairment if used in a manner not specified by the manufacturer. Déficit de protection si utilisé d'une manière non spécifiée par le fabricant.

2 Unpacking the Unit

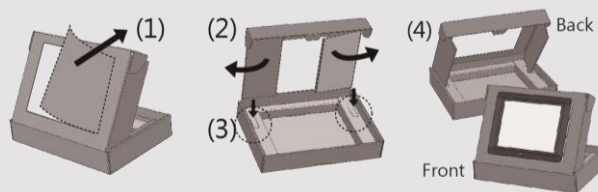Unpack and check the delivery. If damage is found, please contact the supplier.

NOTE: Place the operator panel on a stable surface during installation. Dropping it or letting it fall may cause damage.

The package includes:
(1) Installation Instruction, 2-sided A4 *1 (2) Human Machine Interface *1 (3) Power Connector *1
(4) Brackets & Screws *1 pack (5) USB Stick Clamp & Tying Strap *1

The packing box can be transformed into an HMI stand. Please follow the steps to make the stand.
1. Remove the center of the box cover along the perforated line.
2. Pull the two inner flaps.
3. Press down along the perforated line inside the box.
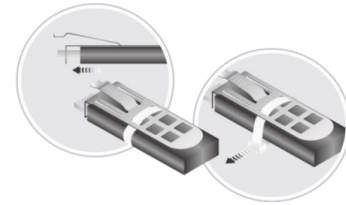4. Complete the stand as shown.

3 Installation Instructions

Use a control box that provides enough
Dimension: 250 mm x 192 mm. Secur
position, using all the fastening holes a
brackets and screws. Screw Torque: 2
reaching waterproof effect and preven
deformed.)
Plan for adequate space around the u
enclosure, for ventilation and cables. O
other devices inside the enclosure. Th
around the unit must be 0 ~ 50°C
Minimum required clearances (along t
Maximum panel thickness: 4.5 mm

USB Stick Clamp Usage
Combining the USB Stick with the clar
with HMI when strong vibration is pres
1. Insert the USB connector to the clar
2. Press the spring and insert the USB

4 Power Connections

⚠ Power Connector Specifications:
Wire AWG: 24~12
Wiring Conductor Minimum Tempe
Screw Torque: 4.5 lbf-in (max.)
Copper conduct only.

NOTE:
1. Connect positive DC line to the '+
'-' terminal.
2. When downloading project using
with PLC and PC simultaneously, fo
result in damage to HMI or PC.

5 System Settings

When the HMI powers up and displays
open the Setting page. To configure th
or later, tap "configure", and a login wi
system password (default: 111111). If t
and log in to make changes. In the Se
settings, set HMI Time/Date/Name, an

6 EasyBuilder Pro Software Settings

Launch EasyBuilder Pro software, select your project file, press F7 shortcut key to open the download dialog box: Select Ethernet > IP tab > Enter your HMI IP > Click Download to download this project file to HMI.

Using screensaver and backlight saver is recommended in order to avoid image persistence caused by displaying the same image on HMI for a long time.

(Please refer to EasyBuilder Pro User Manual for software operation details.)

7 Communication Connections

NOTE:
1. **Only Tx & Rx (no RTS/CTS) may be used for COM1 RS232 when COM3 RS-232 is also used.**
2. **COM2 / COM3 RS-485 2W Supports MPI 187.5K, please use one at a time.**

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1 2 3 4 5
 6 7 8 9
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Con.B

COM1/COM3 [RS232] 9 Pin, Male, D-sub

PIN#	COM1 [RS232]4W	COM3 [RS232]2W
1		
2	RxD	
3	TxD	
4		
5	GND	
6		
7	RTS	TxD
8	CTS	RxD
9		

```
5 4 3 2 1
 9 8 7 6
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Con.A

COM2/COM3 [RS485] 9 Pin, Female, D-sub

PIN#	COM2 [RS485]2W	COM2 [RS485]4W	COM3 [RS485]2W
1	Data-	Rx-	
2	Data+	Rx+	
3		Tx-	
4		Tx+	
5	GND		
6			Data-
7			
8			
9			Data+

8 Touchscreen Calibration & Restore Factory Default

Touchscreen Calibration: Press and hold anywhere on the screen during HMI startup.
Restore Factory Default: There are two methods to restore factory default, both of which will erase all project files and data stored on the device.
1. Follow the instructions in section 5 of this manual to open the Setting page and select the appropriate page based on the OS version before pressing "Reset HMI to default":
   For OS versions 20231201 or later, select the "System Properties" page, press "Reset HMI to Default," and select "Reset".
   For OS versions before 20231201, select the "Reset Options" page, press "Reset HMI to default", and enter "yes".
2. Alternatively, perform the operation based on the OS version:
   For OS versions 20231201 or later, after pressing "Reset HMI to Default", enter "default111111" or the default password "111111", and then select "Reset".
   For OS versions before 20231201, enter "default111111" during login, and then enter "yes".

9 Battery Replacement

Battery replacement shall be performed by qualified personnel only and care must be taken when handling lithium batteries. For more information on battery replacement and disposal considerations, please refer to the following link:
http://www.weintek.com/download/MT8000/eng/FAQ/FAQ_103_Replace_Battery_en.pdf

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CAUTION

NOTE: Make
installing the

⚠ Power	Use power output powered by DC systems. The pow supply. The peak
⚠ Fusing Requirements	If the display does will protect agains of time. Check wir
⚠ High Voltage	A resettable fuse DC voltage sourc
⚠ Emergency Stop	A Hard-wired EME ICS Safety Recor
⚠ Supply Voltage Condition	Do not power the power supply. Not power the unit.

⚠ Wire Routing	a. Power wire le
	b. Please use tw
	   impedance m
	c. If wiring is to
	   devices.
	d. Keep AC, high
	e. Add a resistor
	   supply and th
	   dissipation. Ty

DANGER

⚠ Hardware Considerations	The system desi thereby create a interface can lea physical injury to If you use any p potential safety ha steps depend on installation of sol installation of Con
⚠ Programming Considerations	To conform to IC ensure that all w checks built into t personnel.

Limited Warranty

This product is limited warranted ag
The proven defective product will ei
This warranty shall not cover any pr
(a) Out of warranty period which is 12 month
(b) Damage caused by Force Majeure, accic
(c) Product has been repaired or taken apart
(d) Products whose identification markings h