


1 Installation and Startup Guide

This document covers the installation of cMT3072X2/3072XH2 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	<ol style="list-style-type: none"> (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.

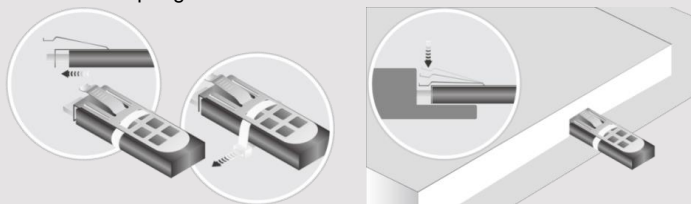
The package includes:

- (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

USB Stick Clamp Usage

Combining the USB Stick with the clamp and the tying strap can prevent USB stick from disconnecting with HMI when strong vibration is present.


1. Insert the USB connector to the clamp and tie them together with the tying strap.
2. Press the spring and insert the USB stick into HMI.



3 Installation Instructions

Use a control box that provides enough space for the operator panel in position, using all the provided brackets and screws. The panel should be mounted 2.6 ~ 3.9 lbf.in. (For reaching waterproofing) preventing the panel from being deformed. Plan for adequate space around the unit for enclosure, for ventilation and cables. Avoid heat from other devices inside the enclosure. Minimum required clearances (along top/bottom/sides): 15 mm / Bottom 50 mm / Sides 15 mm. Maximum panel thickness: 4.5 mm.


4 Power Connections

 Power Connector Specifications:
Wire AWG: 24~12
Wiring Conductor Minimum Temperature: 0°C (32°F)
Screw Torque: 4.5 lbf-in (max.)
Copper conduct only.

NOTE:

1. Connect positive DC line to the '+' terminal.
2. When downloading project using EasyBuilder Pro with PLC and PC simultaneously, failure may result in damage to HMI or PC.

5 System Settings

When the HMI powers up and displays the splash screen, tap the 'Settings' icon in the upper-left corner to open the Settings menu. If the OS version is 20231201 or later, tap 'Settings' to modify by entering the system password. Tap the lock icon  and log in to make changes. To configure general settings, set HMI Time.

6 EasyBuilder Pro Software

Launch EasyBuilder Pro software, select 'Ethernet' in the dialog box: Select Ethernet > IP tab > Settings to HMI.

Using screensaver and backlight save energy by displaying the same image on HMI. (Please refer to EasyBuilder Pro User Manual for details.)

7 Communication Connections

NOTE:

1. **COM2 and COM3 [RS485] 2W support MPI 187.5K, please use one at a time.**
2. **Only Tx & Rx (no RTS/CTS) may be used for COM1 RS232 when COM3 RS-232 is also used.**
3. **To ensure proper communication, the CAN bus must be terminated at both ends with two 120Ω terminal resistances.**
4. **CAN Bus is not supported on cMT3072X2.**

1 2 3 4 5
6 7 8 9 **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	GND	

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

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

PIN#	COM2 [RS485]2W	COM2 [RS485]4W	COM3 [RS485]2W	CAN Bus
1	Data-	Rx-		
2	Data+	Rx+		
3		Tx-		
4		Tx+		
5	GND			
6			Data-	
7				CAN_L
8				CAN_H
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 Specification: Type CR2032, Rated 3V

Battery replacement shall be performed by qualified personnel (engineer) 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

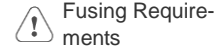
CAUTION



Power

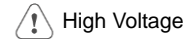
NOTE: Make sure you are correctly installing the unit.

Use power output powered by DC power systems. The power supply. The peak...



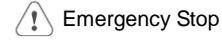
Fusing Requirements

If the display does will protect against of time. Check wiring...



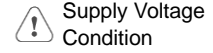
High Voltage

A resettable fuse DC voltage source...



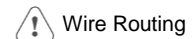
Emergency Stop

A Hard-wired EME ICS Safety Recom...



Supply Voltage Condition

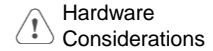
Do not power the power supply. Note power the unit.



Wire Routing

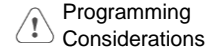
- a. Power wire length
- b. Please use two impedance matching devices.
- c. If wiring is to be connected to other devices.
- d. Keep AC, high voltage power supply and the power supply and the power supply and the power supply.
- e. Add a resistor to the power supply and the power supply.

DANGER



Hardware Considerations

The system design thereby create an interface can lead to physical injury to the user. If you use any product, potential safety hazards steps depend on the installation of solid state installation of Cont...



Programming Considerations

To conform to ICS ensure that all wiring checks built into the personnel.

Limited Warranty

This product is limited warranted against... The proven defective product will be... This warranty shall not cover any product (a) Out of warranty period which is 12 months (b) Damage caused by Force Majeure, accident (c) Product has been repaired or taken apart (d) Products whose identification markings have been removed