


### 1 Installation and Startup Guide

This document covers the installation of cMT3072XP 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"> <li>(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.</li> <li>(2) Do not operate the unit in areas subject to explosion hazards due to flammable gases, vapors or dusts.</li> <li>(3) Do not install the unit where acid gas, such as SO<sub>2</sub> exists.</li> <li>(4) This device should be mounted in the vertical position and for use on the flat surface enclosure.</li> <li>(5) For use in Pollution Degree 2 Environment and dry location.</li> <li>(6) Relative Humidity: 10% ~ 90% (non-condensing)</li> </ol>
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.**

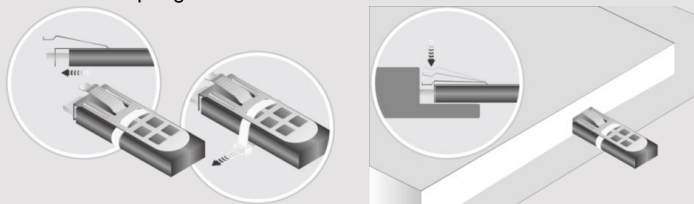
The package includes:

- (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 weight is 2.6 ~ 3.9 lbf.in. (For reaching waterproofing, preventing the panel from being deformed, Plan for adequate space around the unit enclosure, for ventilation and cables. Avoid heat from other devices inside the enclosure. Minimum ambient temperature around the unit is 0°C. Minimum required clearances (along top / Bottom / 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  
 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, it may result in damage to HMI or PC.

### 5 System Settings

When the HMI powers up and displays the main screen, the Setting page will open the Setting page. To configure the device, the Setting window will appear. The settings can be configured. In the Setting page, you can see device information, Time/Date/Name, and more.

### 6 EasyBuilder Pro Software

Launch EasyBuilder Pro software, select the connection dialog box: Select Ethernet > IP tab > connect to HMI.

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

## 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.

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 Restore Factory Default

To restore factory default, follow section 5 instructions of this manual to open the Setting page, and then select "System Properties", press "Reset HMI to Default", enter the Admin password or "default111111", and press "Reset". Please note that all stored project files and data will be erased.

## 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](http://www.weintek.com/download/MT8000/eng/FAQ/FAQ_103_Replace_Battery_en.pdf)

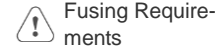
### CAUTION



Power

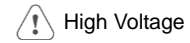
**NOTE:** Make installing the

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



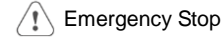
Fusing Requirements

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



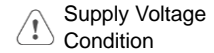
High Voltage

A resettable fuse DC voltage source



Emergency Stop

A Hard-wired EME ICS Safety Recom



Supply Voltage Condition

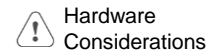
Do not power the power supply. Note power the unit.



Wire Routing

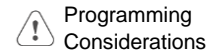
- a. Power wire le
- b. Please use tw impedance ma
- c. If wiring is to b devices.
- d. Keep AC, high
- e. Add a resistor supply and the dissipation. Ty

### DANGER



Hardware Considerations

The system desig thereby create a interface can lea physical injury to t If you use any pr potential safety ha steps depend on installation of soli installation of Con



Programming Considerations

To conform to IC ensure that all w checks built into th personnel.

## Limited Warranty

This product is limited warranted ag The proven defective product will e This warranty shall not cover any p

- (a) Out of warranty period which is 12 month
- (b) Damage caused by Force Majeure, accid
- (c) Product has been repaired or taken apar
- (d) Products whose identification markings h