

# MT6051iP MT8051iP series

## Installation Instruction

### 1 Installation and Startup Guide

This document covers the installation of MT6051/8051iP Series HMI, for the detailed specifications and operation, please refer to Brochure and EasyBuilder Pro User Manual.

#### Install Environment:

|                              |   |
|------------------------------|---|
| NEMA Rating                  | MT6051/8051iP Series HMI is NEMA 4 rated (Indoor Only).   |
| Electrical Environment       | MT6051/8051iP Series 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.<br>(2) Do not operate the unit in areas subject to explosion hazards due to flammable gases, vapors or dusts.<br>(3) Do not install the unit where acid gas, such as SO <sub>2</sub> exists.<br>(4) This device should be mounted in the vertical position and for use on the flat surface enclosure.<br>(5) Conform to UL508 (ISBN 0-7629-0404-6) machine safety for use in Pollution Degree 2 Environment.<br>(6) Relative Humidity: 10% ~ 90% (non-condensing) |

### 2 Unpacking the Unit

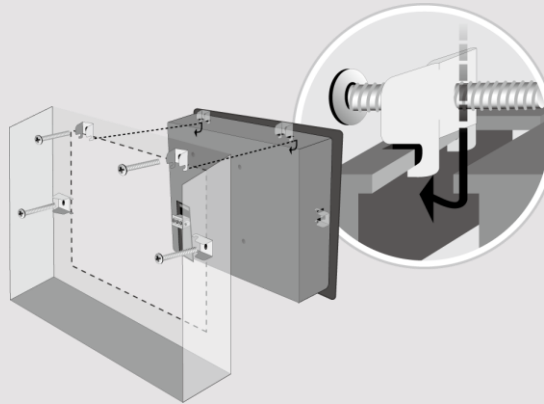
Unpack and check the delivery. If damage is found, notify the supplier.

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

- (1) Installation Instruction, 2-sided A4 \*1
- (2) Human Machine Interface \*1
- (3) Power Connector \*1
- (4) Brackets & Screws \*1 pack

### 3 Installation Instructions

Secure the operator panel in position, using all the fastening holes and the provided brackets and screws. Screw Torque: 2.6 ~ 3.9 lbf.in.  
(For reaching waterproof effect and preventing the panel from being deformed.) Panel Cutout: 119 mm x 93 mm



### 4 Power Connections

#### NOTE:

1. Connect positive DC line to the '+' terminal and the DC ground to the '-' terminal.

2. When downloading project using EasyBuilder Pro, do not connect HMI with PLC and PC simultaneously, for electric potential difference may result in damage to HMI or PC.

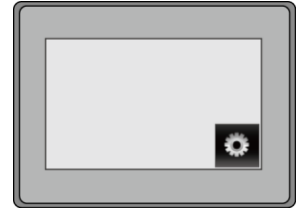
### 5 System Settings

When HMI is powered up and displays the system setting screen, click the system setting button.

(Default System Password: 111111)

It is necessary to connect the HMI to your network through a RJ-45 cable.

(N/A for MT6051iP)



### 6 EasyBuilder Pro Software

Launch EasyBuilder Pro software, select the system setting dialog box:

For MT6051iP, select USB cable /

For MT8051iP, select Ethernet > IP tab to HMI.

Using screensaver and backlight save settings, displaying the same image on HMI for

(Please refer to EasyBuilder Pro User Manual)

## 7 Communication Connections

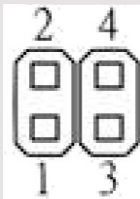
NOTE: COM1 RS-485 2W supports MPI 187.5K.

9 Pin, Male, D-sub  
COM1 [RS232]  
COM1 [RS485]  
COM3 [RS485]

1 2 3 4 5  
6 7 8 9

| PIN# | COM1 [RS485] |        | COM1 [RS232] | COM3 [RS485] |
|------|--------------|--------|--------------|--------------|
|      | 4 wire       | 2 wire |              |              |
| 1    | Rx-          | Data-  |              |              |
| 2    | Rx+          | Data+  |              |              |
| 3    | Tx-          |        |              |              |
| 4    | TX+          |        |              |              |
| 5    | GND          |        |              |              |
| 6    |              |        | TxD          |              |
| 7    |              |        |              | Data-        |
| 8    |              |        |              | Data+        |
| 9    |              |        | RxD          |              |

## 8 Jumper Settings



| 1-2   | 3-4   | Mode                          |
|-------|-------|-------------------------------|
| Short | Open  | Touch Screen Calibration Mode |
| Open  | Short | Boot Loader Mode              |
| Open  | Open  | Normal                        |

Please prepare a jumper cap for setting the jumpers.

Another way to enter touch screen calibration mode is: Press and hold anywhere on the screen for more than 2 seconds when HMI starts.

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

### CAUTION

Power

NOTE: Make s  
installing the un

The unit can be pow  
controller DC system  
switching power sup

Fusing  
Require-  
ments

If the display does n  
will prevent damage  
connections and try

High Voltage

An Internal fuse will  
voltage sources sho

Emergency Stop

A Hard-wired EMER  
ICS Safety Recomm

Supply Voltage  
Condition

Do not power the un  
power supply. Note:  
current to power the

Wire Routing

- Power wire leng
- Please use twist  
impedance mat
- If wiring is to be  
devices.
- Keep AC, high e
- Add a resistor an  
supply and the fr  
dissipation. Typi

### DANGER

Hardware  
Considerations

The system design  
thereby create an  
interface can lead  
physical injury to the  
If you use any prog  
potential safety haza  
steps depend on y  
installation of solid-  
installation of Contro

Programming  
Considerations

To conform with ICS  
ensure that all writ  
checks built into the  
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, acci  
(c) Product has been repaired or taken apar  
(d) Products whose identification markings h