

## MT6070iP MT8070iP INSTALLATION INSTRUCTION

#### 1. INSTALLATION AND STARTUP GUIDE

Read these instructions carefully before installing, operating or perform maintenance in this equipment.

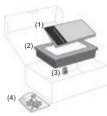
This document covers the installation of MT6070/8070iP Series HMI, for the detailed specifications and operation, please refer to brochure and EasyBuilder 8000 user manual.

### Install environment:

	MT6070/8070iP Series HMI		
NEMA rating	is NEMA 4 rated.		
Electrical environment	MT6070/8070iP 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. (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 SO <sub>2</sub> exists. (4) This device should be mounted in the vertical position and for use on the flat surface enclosure. (5) Conform to UL508 (ISBN 0-7629-0404-6) machine safety for use in Pollution Degree 2 Environment.		

#### 2. UNPACKING THE UNIT

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



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

#### Note!

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

### 3. INSTALLATION INSTRUCTIONS

Secure the operator panel in position, using all the fastening holes and the provided brackets and screws:





Туре	A (mm)	B (mm)
MT6070iP	192	138
MT8070iP	192	138

### 4. POWER CONNECTIONS



#### Note!

- 1. Connect positive DC line to the '+' terminal and the DC ground to the '-' terminal.
- 2. Please do not connect HMI with PLC and PC simultaneously to prevent potential difference from destroying USB ports of HMI and PC.

#### 5. SYSTEM SETTINGS

When HMI is powered up and displays image, click the system setting button (default System Password: 111111). It is necessary to connect the HMI to your network through a RJ45 cable (N/A for MT6070iP).



Go to the Network tab, you may choose to auto get DHCP IP, or designate your own IP.



# 6. EASYBUILDER 8000 SOFTWARE SETTINGS

Launch EasyBuilder 8000 software, select your project file, press F7 shortcut key to open the download dialog box: for MT6070iP, select USB cable/For MT8070iP, select Ethernet>IP tab>Enter your HMI IP>Click Download to download this project file to HMI (please refer to EasyBuilder 8000 User Manual for software operation details).

Software available free-of-charge at www.weg.net.



#### 7. CALIBRATION MODE

Launch Project Manager, select MT6000/8000 iP Series in Type field, select Ethernet or USB cable, and then click Calibrate Touch Panel button to start calibration.



## 8. COMMUNICATION CONNECTIONS

Note!

Com2 (RS485 2 W) supports MPI 187.5K.

9 pin, male, D-sub COM1 (RS232) COM2 (RS485)



PIN#	Symbol	COM1 (RS232)	COM2 (RS485) 4 W	COM2 (RS485) 2 W
1	Rx-		Rx-	Data-
2	Rx+		Rx+	Data+
3	Tx-		Tx-	
4	Tx+		Tx+	
5	GND		GND	
6	TxD	TxD		
7	RTS	RTS		
8	CTS	CTS		
9	RxD	RxD		

Cable requirement	Different cables are required for various devices.
CAUTION!	Restrict cable length to less than 500' (150 m) for RS485/422 devices and 50' (15 m) for RS232 devices to avoid communications problems. Shielded cable must be used for long lengths or cables run in an electrically noisy environment. Do not run cables next to AC power lines or near sources of electrical noise. Be sure that the cable ends have been inserted all of the way into mating connectors and are secure.
	HARDWARE CONSIDERATIONS!
1	The system designer should be aware that devices in Controller systems could fail and thereby create an unsafe condition. Furthermore, electrical interference in an operator interface can lead to equipment start-up, which could result in property damage and/or physical injury to the operator. If you use any programmable control systems that require an operator, be aware that this potential safety hazard exists and take appropriate precautions. Although the specific design steps depend on your particular application, the following precautions generally apply to installation of solid-state programmable control devices, and conform to the guidelines for installation of Controllers recommended in NEMA ICS 3-304 Control Standards.
!	PROGRAMMING CONSIDERATIONS! To conform with ICS Safety Recommendations, checks should be placed in the controller to ensure that all writable registers that control critical parts of plant or machinery have limit checks built into the program, with an out-of-limit safe shut down procedure to ensure safety of personnel.
CAUTION!	Note!  Make sure that all local and national electrical standards are met when installing the unit.  Contact your local authorities to determine which codes apply.
<u> </u>	POWER! The HMI can be powered by DC power only, voltage range: 24 ± 20% Volts DC, compatible with most controller DC systems. The power conditioning circuitry inside the unit is accomplished by a switching power supply. The peak starting current can be as high as 2 A.

