

EM3

Installation Manual V1.0

1 Installation Introduction

Please note that when installing the device behind this product, make sure that the AC power cord, starter, relay and other types of electrical interface devices are far away from the back of this product. Working ambient temperature: 0~50°C, storage ambient temperature: -20~60°C.

Forbidden occasions	<ul style="list-style-type: none"> ※ Direct sunlight. ※ Locations where ambient temperature or relative humidity exceeds specifications. ※ Locations where rapid temperature changes that easily cause condensation ※ Locations containing corrosive gas and flammable gas. ※ Locations with a lot of dirt, dust, salt and iron powder. ※ Locations where will be splashed by water, oil, medicines, etc. ※ Locations that bring direct vibration and shock to this HMI.
Where shielding measures are required	<ul style="list-style-type: none"> ※ Where there is static electricity or other forms of noise. ※ Where there is strong electromagnetic. ※ Locations that may be exposed to radiation. ※ Locations that close to power source.
Power requirements	<ul style="list-style-type: none"> ※ Input voltage: 20.4~28.8 VDC; Working current: 300mA. ※ Special attention should be paid to keep a long distance from the frequency converter and switching power supply. The input and output points of such equipment must use shielded cables and ground the shielding network. ※ The DC power supply must be isolated from the AC power. ※ It is forbidden for the HMI and the inductive load or the input circuit of the controller to share power.

2 Product components

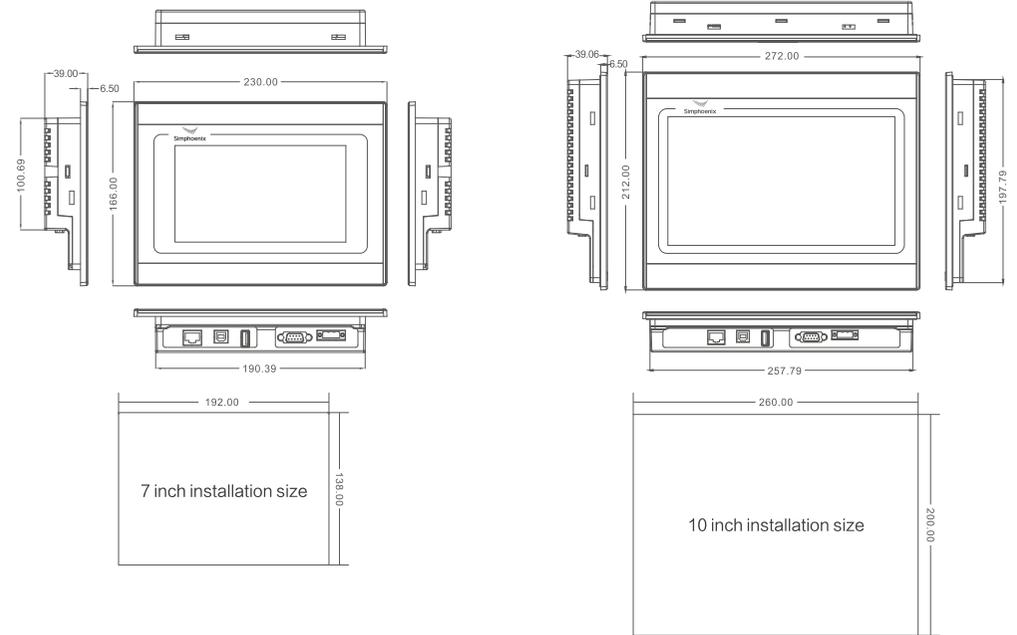


HMI x 1

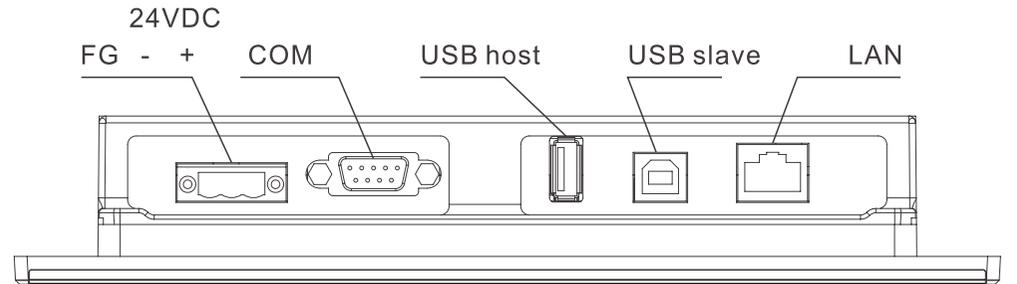


Fixing bolt x 4

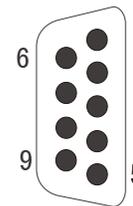
3 Appearance and installation dimension(mm)



4 Connection interface



5 Serial port definition



Port	Pin	Pin definition
COM2	1	—
	2	RS232 RXD
	3	RS232 TXD
	4	—
	5	GND
COM1	6	—
	7	RS485+(A)
	8	RS485-(B)
	9	—

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Specification

MODEL	EM3-070E	EM3-070T	EM3-101E	EM3-101T
Performance specifications				
Display module	7"TFT	7"TFT	10"TFT	10"TFT
Display color	65536			
Precision	800×480	800×480	1024×600	1024×600
Backlight type	LED			
Brightness	350cd/m ²			
LCD life	30000 hours			
Touch type	4-wire precision resistor network			
CPU	600MHz 32 bits			
Memory	256M FLASH+128M DRAM			
Real Time Clock	Support			
USB HOST	USB2.0 × 1, Type A(USB1), Support U disk to update firmware,configuration and store data			
USB Slave	USB2.0 × 1, Type B(USB2), Support program upload and download			
Serial interface	COM1: RS485 COM2: RS232			
Ethernet	10M/100M adaptive	Not support	10M/100M adaptive	Not support
DB9	Plug, Non-isolated, RS485:7 - B, 8 - A, RS232:2 - RXD, 3 - RTX, 5 - GND			
Electrical Specifications				
Rated power	7.2W			
Rated voltage	DC24V			
Input range	20.4~28.8VDC			
Allow power loss	10ms			
Insulation resistance	Exceed 50MΩ@500VDC			
Withstand voltage performance	500 VAC 1min			
Structural specifications				
Shell color	Dark gray + Silver			
Shell material	ABS+PC plastic, metal			
Appearance dimension	230×166×39mm	230×166×39mm	272×212×39mm	272×212×39mm
Installation dimension	192×138mm	192×138mm	260×200mm	260×200mm
Weight	0.75Kg	0.75Kg	1.0Kg	1.0Kg
Environmental specifications				
Working temperature	0 ~ 50°C			
Working humidity	10 ~ 90%RH (No condensation)			
Storage temperature	-20 ~ 60°C			
Storage humidity	10 ~ 90%RH (No condensation)			
Anti-vibration ability	10 ~ 25Hz (2G/30min in X、Y、Z)			
Cooling method	Air cooling			
Product certification				
Front panel protection level	IP65 (4208-93)			
CE certification	EN61000-6-2:2005/EN61000-6-4:2007			

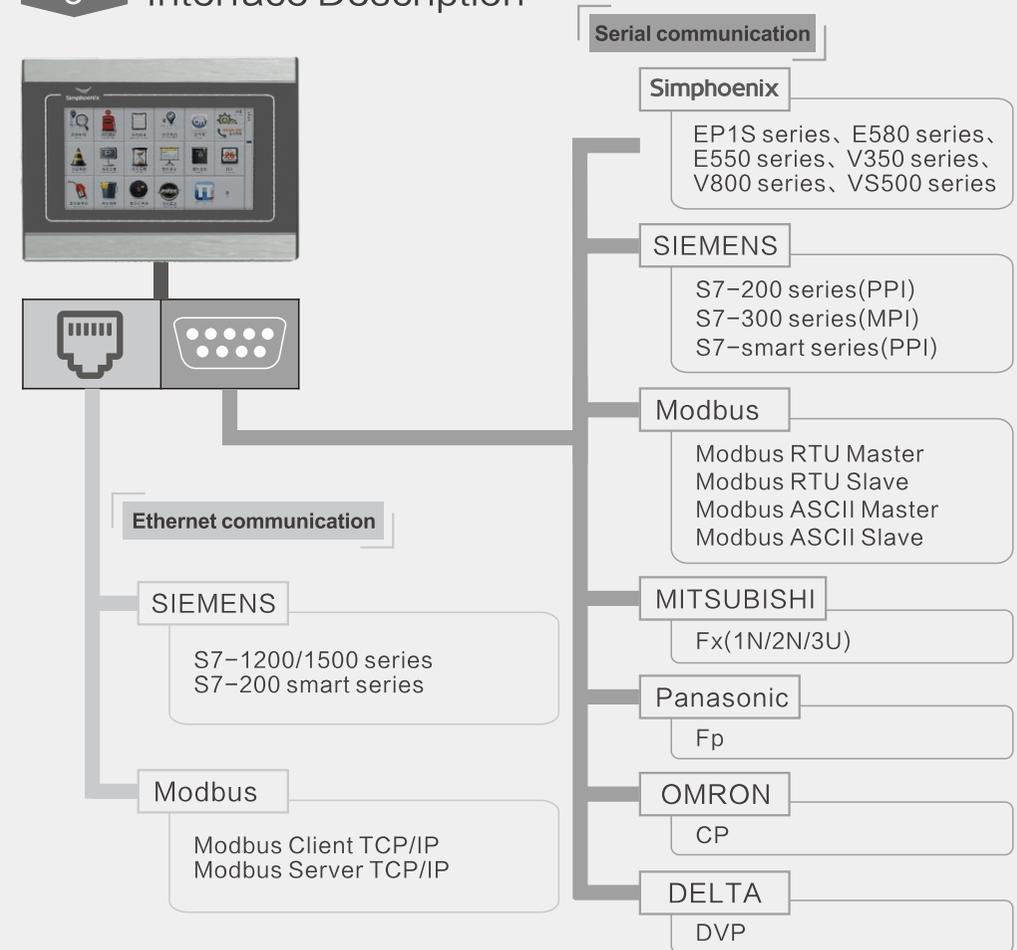
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Software Installation

Please download the software (simphoenix face) on the official website of Shenzhen Simphoenix Electric Technology Co.,Ltd (www.simphoenix.com). Follow the installation prompts. After installation, use a USB download cable to connect to the HMI. When downloading, it will try to automatically update the USB driver. If the driver cannot be installed normally, please refer to Support / Download / Installing USB Driver for driver installation methods.

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Interface Description



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