

人机界面 安装说明



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1. 安装注意事项

1.1 环境要求

工作环境温度: GT070E/GT070E-4G/GT070E-WiFi 人机界面的设计规范可以保证它能够在 32°F~122°F (0~50°C) 的大多数工业环境中稳定工作。NEMA 防护规定: GT070E/GT070E-4G/GT070E-WiFi 人机界面的前面板符合 NEMA1 的防护规定。

请勿在以下场所使用:

- 阳光直射处
- 周围温度和相对湿度超出规格的场所
- 温度急剧变化易引起结露的场所
- 有腐蚀性气体和可燃性气体的场所
- 尘埃、灰尘、盐分、铁粉较多的场所
- 会被溅到水、油、药品等飞沫的场所
- 给主机带来直接振动和冲击的场所

在以下场所使用时请采取屏蔽措施:

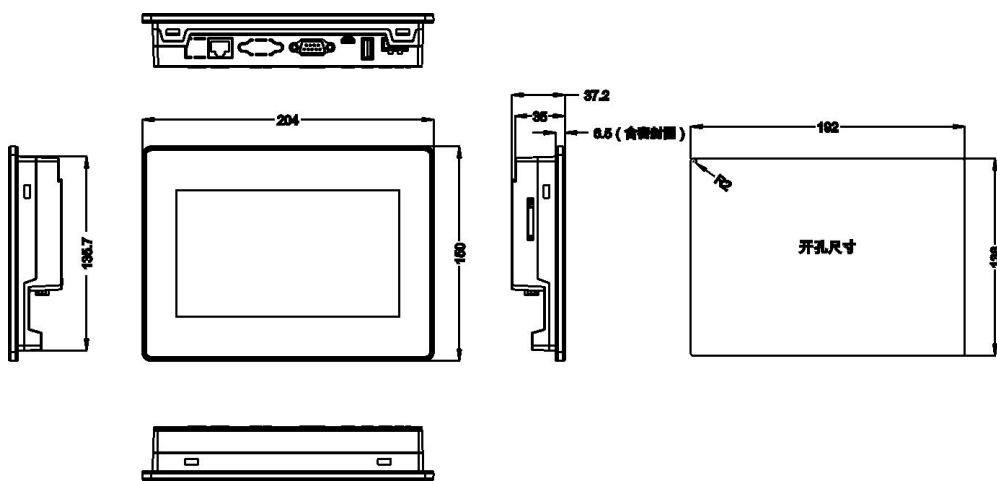
- 有静电或其它形式噪音处
- 有较强电磁场的场所
- 可能暴露于射线的场所
- 靠近于动力电源的场所

1.2 电源要求

- 输入电压: DC10V~DC28V;
 - 特别需要注意与变频调速器和开关电源供应器保持较远的距离, 这类设备的输入和输出电缆都必须采用屏蔽电缆, 并将屏蔽网接到系统的星形接地点;
 - 直流电源必须与交流主电源正确的隔离开;
 - 不要让 GT070E/GT070E-4G/GT070E-WiFi 人机界面和感性负载或控制器的输入电路共用电源。
- 注意:** 产品内部的快速熔丝在电源电压过高的时候可以起到保护作用, 但并不能够确保内部电子元件不被损坏。

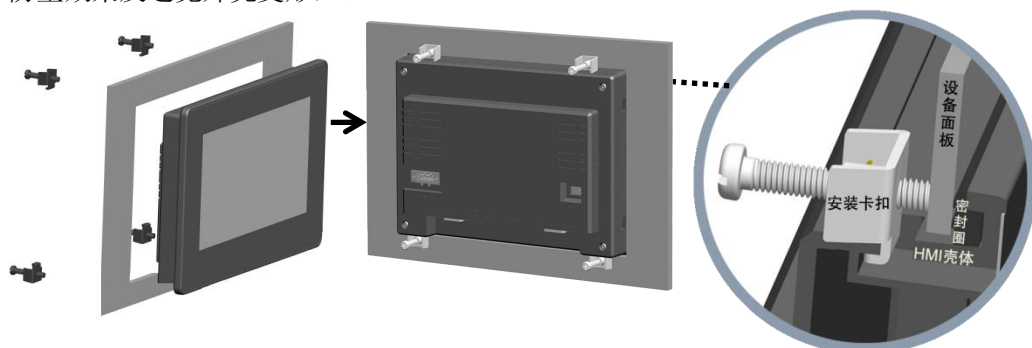
2. 产品安装

2.1 尺寸图



2.2 固定螺钉安装说明

将产品放入机器设备控制面板上已开好的安装孔中, 从控制面板背面将安装卡扣卡入 HMI 壳体上的安装方孔中, 然后拧紧螺钉, 推荐扭力: 0.5N.m (以达到防水、防尘效果及避免外壳变形)。

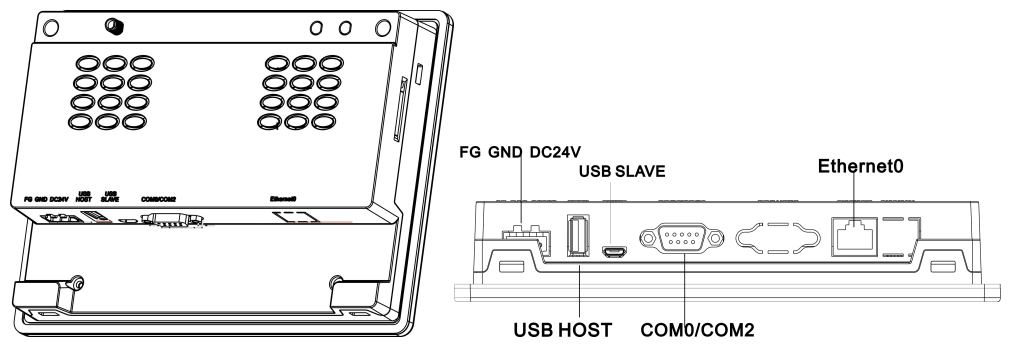


2.3 电源连接

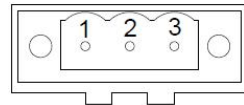
在连接电源前, 请确认符合所有当地和国家的电气标准。电源线缆请选择耐压值和电流值符合安全规定的线缆。
 将产品背面接线端子的螺丝按逆时针方向旋松, 插入电源电缆, 然后顺时针拧

紧接线端子的螺丝。**注意:** 将电源的正极接到标有 'DC24V' 的端子上, 直流的地接到标有 'GND' 的端子上, 地线接到标有 'FG' 的端子上。

3. 外部接口

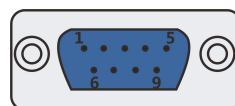


3.1 电源端子



序号	含义
1	DC24V
2	GND
3	FG

3.2 COM0/COM2



COM0/COM2 通讯端口是 9 针 D 型公座。**注意:** COM0 支持 RS232/485/422 通讯功能, 一个串口同时只能支持一种协议。COM2 只支持 RS232 通讯功能。

管脚	信号	PLC (COM0) [RS-422]	PLC (COM0) [RS-485]	PLC (COM0) [RS-232]	PC/PLC (COM2) [RS-232]
1	Rx-(B)	RS422 R-	RS485 B		
2	RxD_PLC			RS232 RxD	
3	TxD_PLC			RS232 TxD	
4	Tx-	RS422 T-			
5	GND	信号地			
6	Rx+(A)	RS422 R+	RS485 A		
7	RxD_PC				RS232 RxD
8	TxD_PC				RS232 TxD
9	Tx+	RS422 T+			

3.3 USB HOST 接口

连接	连接 USB 接口设备或 U 盘
端口作用	连接 USB 接口键盘、鼠标、打印机等, 插入 U 盘上传/下载程序以及存储数据

3.4 USB SLAVE 接口

接口类型是 MicroUSB。

连接	通过一条通用的 USB 通讯电缆和 PC 机连接
端口作用	上/下载用户组态程序和设置 HMI 系统参数

3.5 以太网接口

10M/100M 自适应以太网 RJ45 端口。

连接	采用五类 UTP 网线与带网口的设备连接
端口作用	用于 HMI 组态的上/下载, 系统参数的设置和在线模拟; 构成多 HMI 联机; 与 PLC 等通过以太网通讯; 通过以太网口与 PC 机通讯

3.6 WiFi 功能 (仅 GT070E-WiFi 支持)

功能: 通过无线 WiFi 连接, 进行数据传输与下载

3.7 4G 功能 (仅 GT070E-4G 支持)

功能: 通过互联网 4G 连接 (默认外网路由优先级为 4G) 然后以太网; 绑定了 IP 的以太网 PLC 通信, 按选择的网口通信, 来进行数据传输与下载。

3.8 吸盘天线

客户可根据产品需求选配吸盘天线。

4. 售后服务

《人机界面售后服务条款》请登录如下网址查看: <http://www.kinco.cn>

Installation Instruction



Kinco Electric (Shenzhen) Ltd.

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1. Installation Note

1.1 Environmental Requirement

Operating temperature: GT070E/GT070E-4G/GT070E-WiFi HMI can work stably in most industrial environments that the temperature between 32°F to 122°F (0~50°C).
NEMA rating: This Series HMI frontpanel is NEMA 1 rated.

Please do not use in the following places:

- Places direct in sunlight
- Surrounding temperature and humidity beyond the specifications
- Places of temperature changes sharply and easily cause condensation
- Places that exist corrosive gas and combustible gas
- Places of much dust, dirt, salt and iron powder
- Places that will be splashed water, oil and drugs

Please take shielding measures in the following places:

- Places that exist electrostatic or other kinds of noise
- Places of strong electromagnetic
- Places that may be exposed to rays
- Places near the power

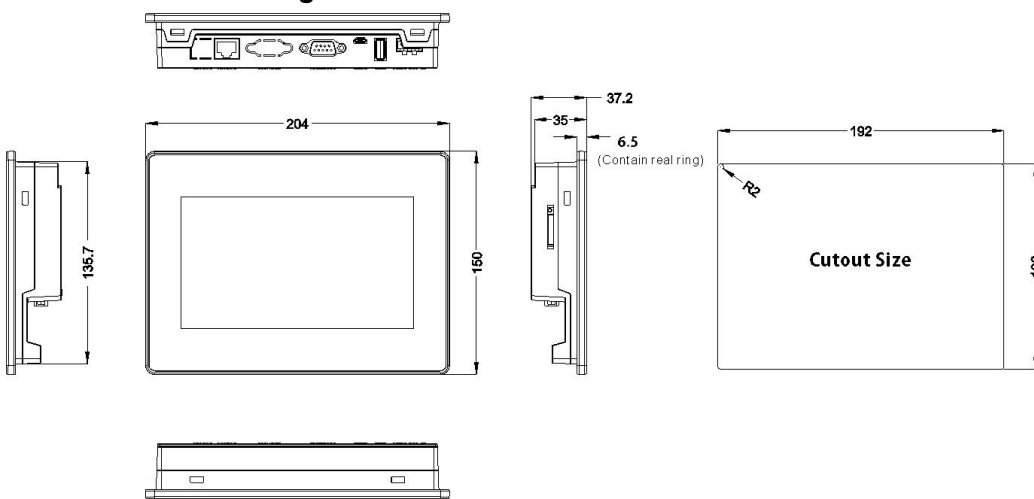
1.2 Power Requirement

- Input voltage:DC10 V~DC28V.
- Particularly note that there must be enough distance between this product and converters or switch mode power supply. Make sure that the input and output cables of that kind equipment are shield cable and the shielding network is connected with the ground.
- Make sure that the DC power and AC power is isolated.
- Do not use common power with perceptual load or input circuit of the controller.

Note: An Internal fuse will prevent damage for over voltage condition, however it isn't guaranteed the internal electronic components are not damaged.

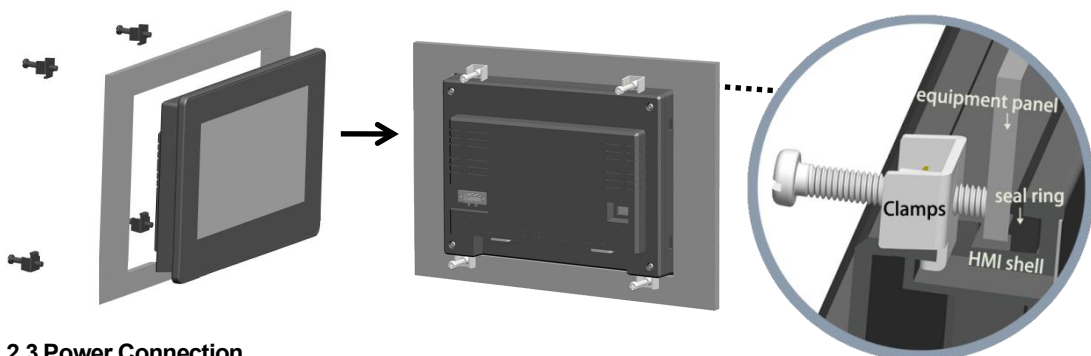
2.Installation Description

2.1Dimensional Drawing



2.2 Fixed Screw Installation Instructions

The product is put into the well mounted hole of the machine control box's panel, and the mounting screws are inserted into the fixing holes around the HMI shell from the back of the control box's panel.
Recommended lock torque: 0.5N.m (to waterproof effect and avoid shell deformation)



2.3 Power Connection

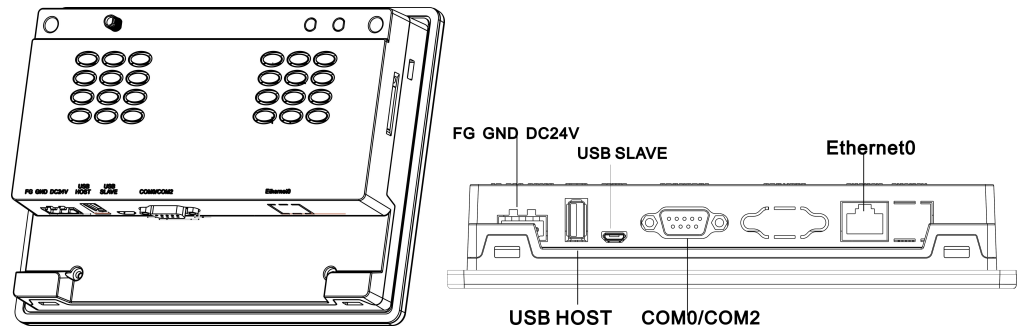
Before connecting the power, please make sure all local and national electrical standards are met. For power cables, please select cables with their dielectric strength values and current values in compliance with the safety specifications.

First find the power terminal at the back of the product and loosen the screw according to counterclockwise, then insert the power cables and tighten the screw up.

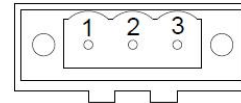
Connect positive DC line to the 'DC24V' terminal, the DC ground to the 'GND' terminal and the ground

line to the 'FG' terminal.

3.External Interface

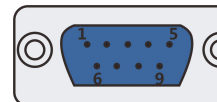


3.1 POWER



Pin#	Signal
1	DC24V
2	GND
3	FG

3.2 COM0/COM2



Pin assignment of the 9-pin male, D-SUB, COM0/COM2. **Note:** RS232/485/422 communication functions are supported by COM0.COM2 supports RS232 communication function.

Pin	Signal	PLC (COM0) [RS-422]	PLC (COM0) [RS-485]	PLC (COM0) [RS-232]	PC/PLC (COM2) [RS-232]
1	Rx- (B)	RS422 R-	RS485 B		
2	RxD_PLC			RS232 RxD	
3	TxD_PLC			RS232 TxD	
4	Tx-	RS422 T-			
5	GND	Signal ground			
6	Rx+ (A)	RS422 R+	RS485 A		
7	RxD_PC				RS232 RxD
8	TxD_PC				RS232 TxD
9	Tx+	RS422 T+			

3.3 USB HOST

Connection	Connect with USB interface devices or U disks
Port Function	This interface can be connected with USB keyboard, mouse and printers, and the U disk can be used for user's configuration uploading/ downloading as well as data storage.

3.4 USB SLAVE

The interface type is MicroUSB

Connection	USB Slave port can be connected with a PC
Port Function	The port is only used to download user configuration program to the HMI and to set HMI system parameters.

3.5 Ethernet

10M/100M adaptive Ethernet RJ45 port.

Connection	With CAT5 UTP cable connected to the Ethernet device.
Port Function	The port can be used for upload/download of HMI configuration, setting of system parameters and online simulations of configurations. It can connect multiple HMIs via the Ethernet to form an HMI network. Furthermore, it can implement communications between HMI and PLC via the Ethernet, as well as communications with a PC via the Ethernet port.

3.6 WiFi function (only supported by GT070E-WiFi)

Function: data transmission and download through wireless WiFi connection

3.7 4G function (only supported by GT070E-4G)

Function: Connect via Internet 4G (the default external network routing priority is 4G) and then Ethernet; Ethernet PLC communication with IP is bound to carry out data transmission and download according to the selected network port communication.

3.8 suction cup antenna

Customers can choose suction cup antenna according to product requirement

4.After-sales Service

For < Service Terms and Conditions for HMI >, please check: <http://www.kinco.cn>