

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: MR2070HE 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: MR2070HE 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:

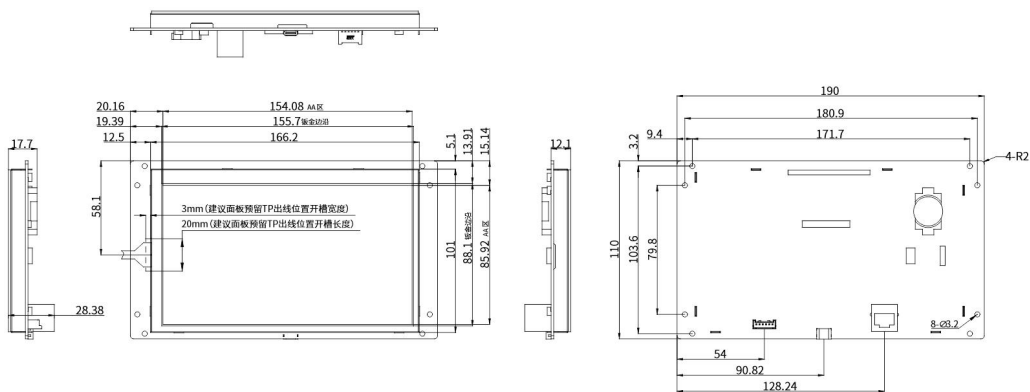
- 有静电或其它形式噪音处
- 有较强电磁场的场所
- 可能暴露于射线的场所
- 靠近于动力电源的场所

1.2 电源要求

- 输入电压: DC10.8V~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 MR2070HE 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

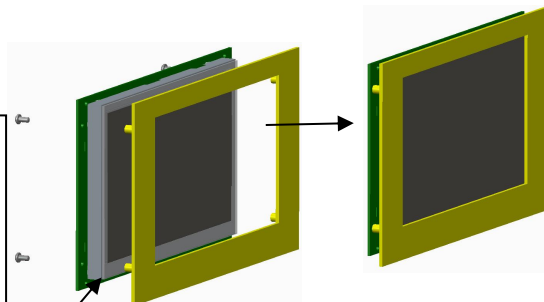
2.1 尺寸图



2.2 固定螺钉安装说明

本产品采取后安装形式。产品四周预留了4个 $\phi 3$ mm的安装孔, 如左图所示, 将孔位与外壳螺纹柱孔对齐, 拧入M3规格的螺丝后固定。

注意: 此为触控TP, 安装时请加以辅助固定



注意: 1) 该触控TP是物理粘贴于钣金外壳上, 在机柜设计中避免让TP处于悬空状态, 以防脱落。2) 建议可在触控TP正面边沿增加宽度5mm以下的缓冲泡棉(过大易遮挡液晶有效显示区)垫于机柜与触控TP之间形成适当挤压, 达到触控TP辅助加固的作用!

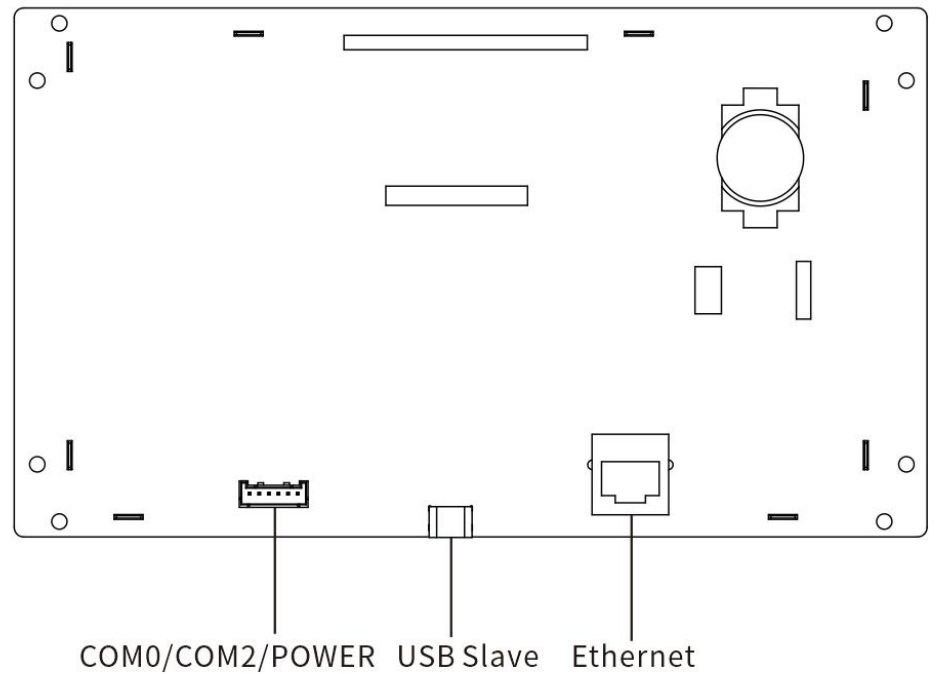
2.3 电源连接

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。

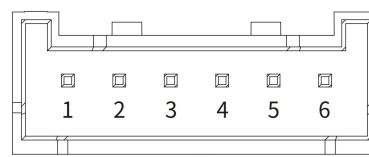
将产品背面接线端子的螺丝按逆时针方向旋松, 插入电源电缆, 然后顺时针拧紧接线端子的螺丝。**注意:** 将电源的正极接到标有'DC24V'的端子上, 直流的地接到标有'GND'

的端子上。

3. 外部接口



3.1 COM0/COM2/电源端子



序号	信号	描述
1	RS485 B	COM0
2	RS485 A	
3	RS232 RxD	COM2
4	RS232 TxD	
5	GND	电源
6	DC24V	

3.2 USB 接口

接口类型是 Type-C。

连接	通过一条通用的 Type-C 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, 兼容 OTG 功能

3.3 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

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.

Add: Building 1, No. 6 Langshan 1st Rd, Hi-tech Park North, Nanshan, Shenzhen, China.
 Tel: 0755-26585555 Fax: 0755-26616372 <http://www.kinco.cn> Email: sales@kinco.cn

1. Installation Note

1.1 Environmental Requirement

Operating temperature: MR2070HE 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
- Places that bring direct vibration and shock to host

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

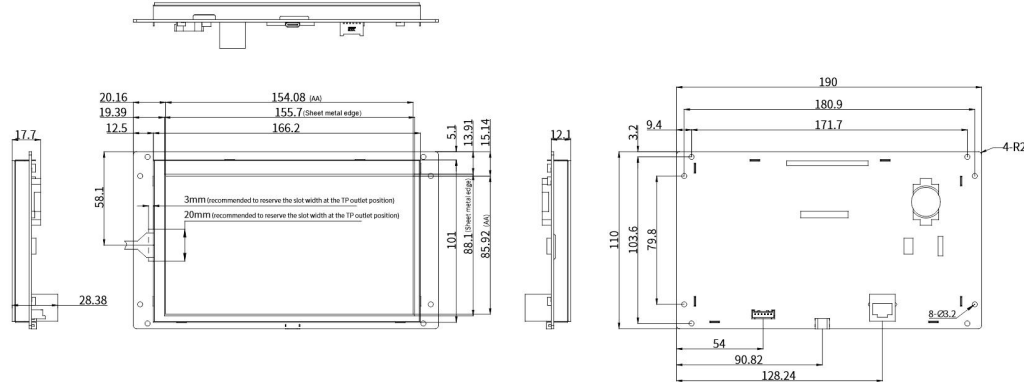
1.2 Power Requirement

- Input voltage: DC10.8 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

2.1 Dimensional Drawing



2.2 Fixed Screw Installation Instructions

The product is installed from the back to front. 4*M3 thread holes are reserved all around, and the hole position of the shell (refer to the left) is aligned with the thread hole, and the screw is screwed into the M3 specification.

Note: This is touch TP, please fix it when installing

Note: 1) the touch TP is physically pasted on the sheet metal shell. In the cabinet design, the TP should not be suspended to prevent falling off. 2) It is suggested that a buffer foam with a width of less than 5mm can be added at the front edge of touch TP (too large to block the LCD effective display area) to pad between the cabinet and the touch TP to form appropriate extrusion, so as to achieve the auxiliary reinforcement effect of touch TP.

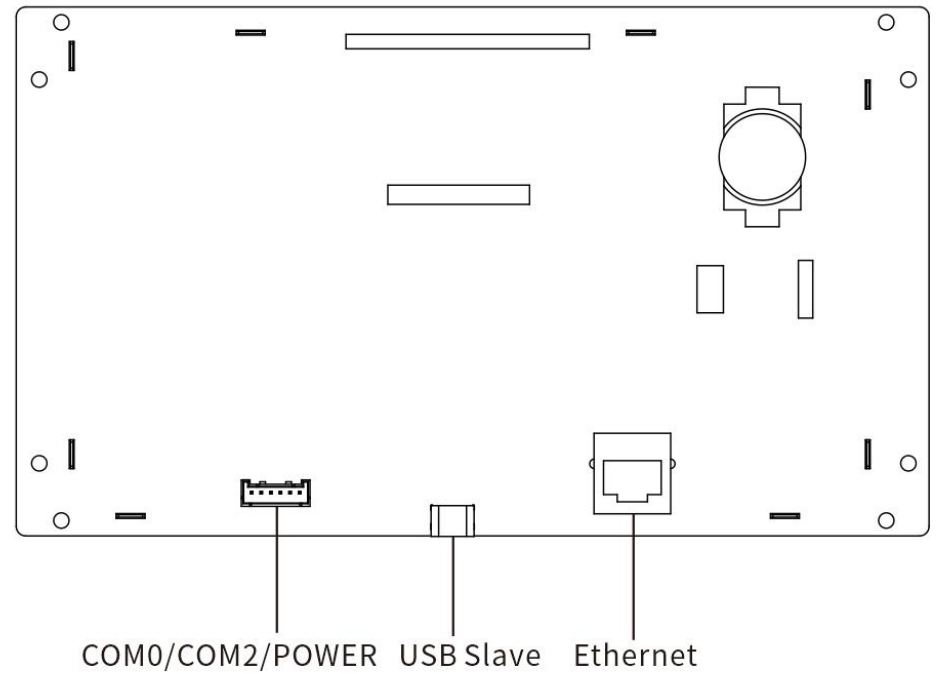
2.3 Power Connection

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.

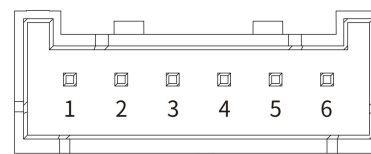
First find the power terminal at the back of the product and loosen the screw according to counterclockwise, then insert the power cables and tighten the screw up.

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

3. External Interface



3.1 COM0/COM2/POWER



Pin#	Signal	Description
1	RS485 B	COM0
2	RS485 A	
3	RS232 RxD	COM2
4	RS232 TxD	
5	GND	Power
6	DC24V	

3.2 USB

The interface type is Type-C.

Connection	Connect to PC via a generic Type-C cable
Port Function	The port is only used to download user configuration program to the HMI and to set HMI system parameters, support OTG

3.3 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.

4. After-sales Service

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