

TP207T/E 人机界面

DCCE

安 装 说 明



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1.安装注意事项

**1.1 环境要求**

工作温度：**TP207T/E** 人机界面的设计规范可以保证它能够在 32°F~122°F（0~50℃）的大多数工业环境中稳定工作。**NEMA** 防护规定：**TP207T/E** 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：

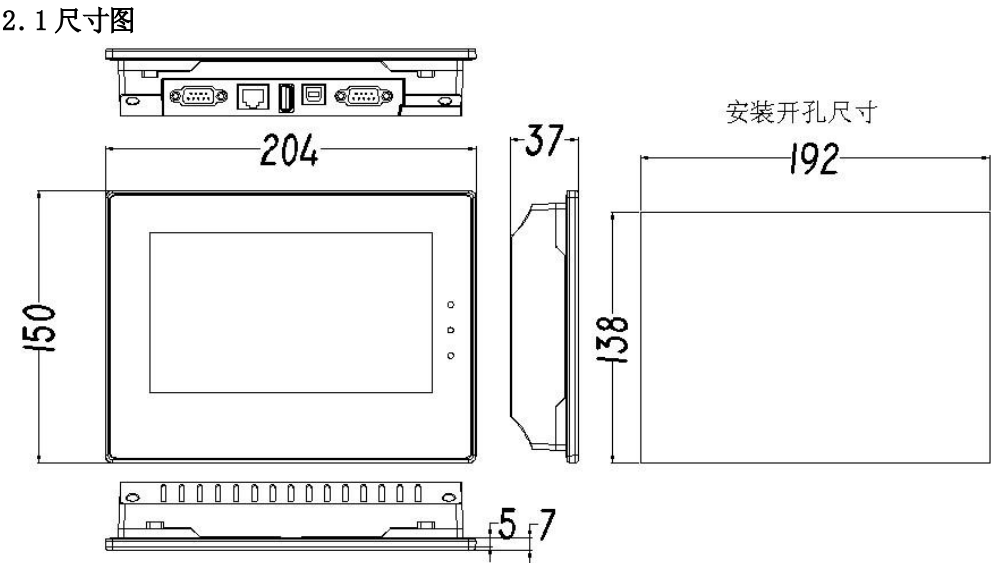
- 有静电或其它形式噪音处
- 有较强电磁场的场所
- 可能暴露于射线的场所
- 靠近于动力电源的场所

**1.2 电源要求**

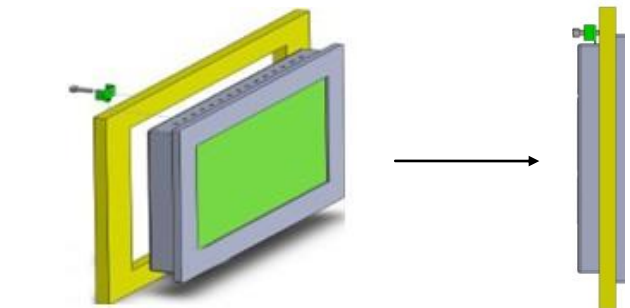
- 输入电压：DC12V~DC28V；
- 特别需要注意与变频调速器和开关电源供应器保持较远的距离，这类设备的输入和输出电缆都必须采用屏蔽电缆，并将屏蔽网接到系统的星形接地点；
- 直流电源必须与交流主电源正确的隔离开；
- 不要让 **TP207T/E** 人机界面和感性负载或控制器的输入电路共用电源。

**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



2.2 固定螺钉安装说明



把产品放入面板上开好的安装孔中，从面板背面将安装螺钉分别卡入产品外壳周围的 4 个安装螺钉固定孔，然后逐个锁紧安装螺钉，直到产品牢靠地固定在面板上。

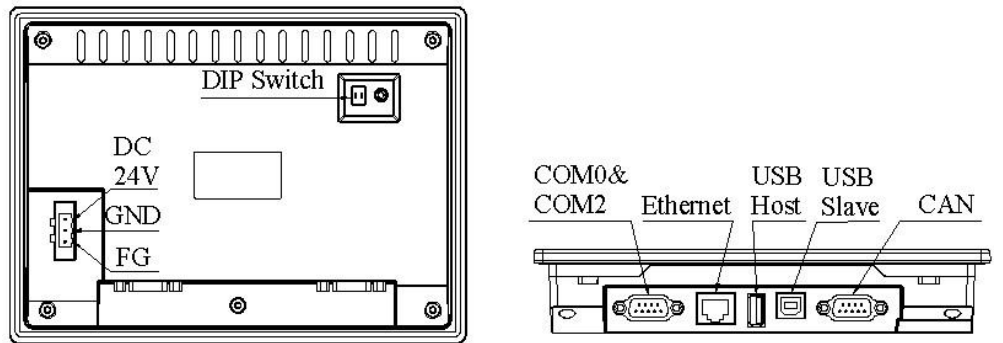
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- 为保证符合 **NEMA-4** 的密封规范，所有的随产品提供的安装固定螺钉必须使用，并且安装面板的弯曲度不能超过 0.010”。
  - 不要过分用力锁紧安装螺钉！

**2.3 电源连接**

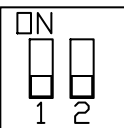
在连接电源前，请确认符合所有当地和国家的电气标准。电源线缆请选择耐压值和电流值符合安全规定的线缆。

将产品背面接线端子的螺丝按逆时针方向旋松，插入已经压接了端子的电源电缆，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 ‘+’ 的端子上，直流的地接到标有 ‘-’ 的端子上，地线接到标有 ‘FG’ 的端子上。

3.外部接口



3.1 DIP 拨码开关

	SW1	SW2	工作模式
ON	ON		系统设置
OFF	ON		触控校正模式
ON	OFF		固件更新与基本参数设置模式
OFF	OFF		应用（在线工作）模式

**3.2 COM0/COM2**

COM0/COM2 通讯端口是 9 针 D 型公座。这个端口用于连接具有 RS232/485/422 通讯端口的控制器。**注意：**COM0 支持 RS232/485/422 通讯功能，COM2 支持 RS232 通讯功能。

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

**3.3 以太网接口（TP207E 支持）**

以太网接口为 10M/100M 自适应以太网端口。

连接	采用标准 RJ45 接口网线与以太网设备连接
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

3.4 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

3.5 USB SLAVE 接口

产品外壳背面的 USB 端口是 USB 从设备。

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

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.dcce.cn](http://www.dcce.cn)

Installation Instruction



DUT Computer Control Engineering Co.,Ltd.

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1. Installation Note

1.1 Environmental Requirement

Operating temperature: TP207T/E 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 NEMA1 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

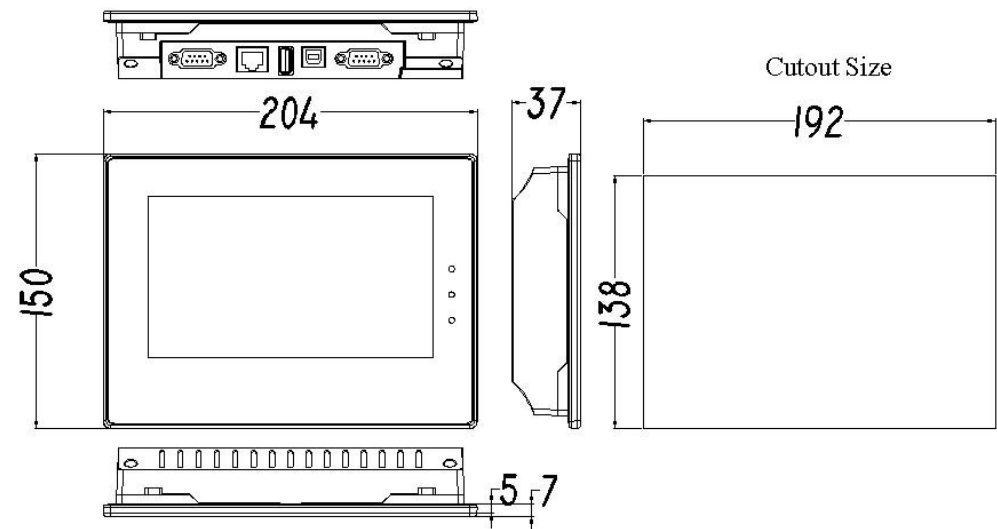
1.2 Power Requirement

- Input voltage:DC12V~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.

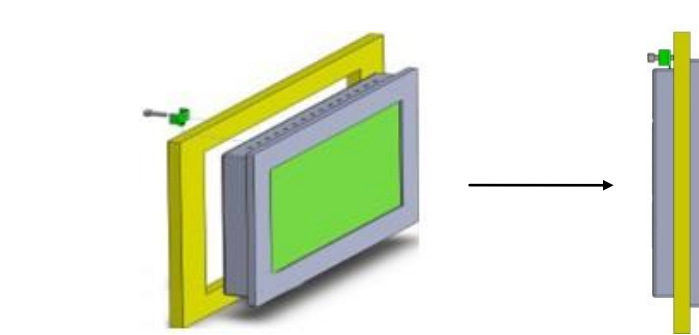
**Note:** An Internal fuse will prevent damage for over voltage condition, however it isn't guaranteed the internal electronic components are not damaged.

2. Installation Description

2.1 Dimensional Drawing



2.2 Fixed Screw Installation Instructions



Put the unit through the panel cutout. Slide the clamps into the 4 holes provided around the case. Tighten the clamping screws in an even pattern until the unit is secured in the panel.



- To seal to NEMA-4 specifications, all supplied mounting clamps must be used and panel cannot flex more than 0.010"
- Do not over-tighten mounting clamps!

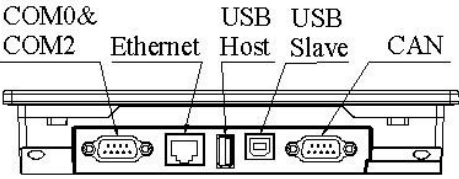
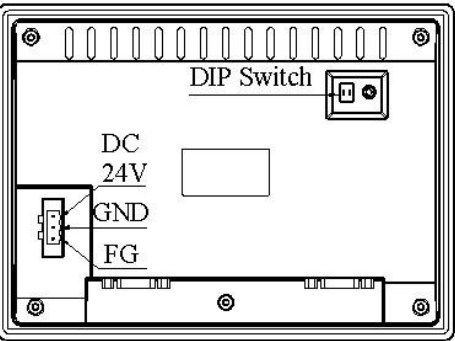
2.3 Power Connection

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.

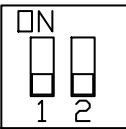
First find the power terminal at the back of the product and loosen the screw according to counterclockwise, then insert the power cables and tighten the screw up.

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

3. External Interface

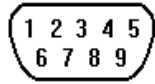


3.1 DIP Switch



SW1	SW2	Working Mode
ON	ON	System Setting Mode
OFF	ON	Touch Screen Calibrate Mode
ON	OFF	Firmware Update and Basic Parameter Setting Mode
OFF	OFF	Application (Online Operation) Mode

3.2 COM0/COM2



Pin assignment of the 9-pin male, D-SUB, COM0. This port is used to connect the controller with RS-232/485/422 port. **Note:** RS232/485/422 communication functions are supported by COM0. COM2 supports RS232 communication function.

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

3.3 Ethernet (TP207E Support)

Ethernet interface can adaptive 10 M/100 M.

Connection	With a standard RJ45 interface 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.

3.4 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.

3.5 USB SLAVE

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.

4. After-sales Service

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