SGD-037

新一代图文显示器 随机手册

> 三碁电气:www.sanch.net TEL:(0595)24678200

【使用注意事项】

<1>请不要在下列环境中使用

- ---环境有凝露的场合
- --有腐蚀性气体、粉尘存在

一有油、化学药品等导电液体飞溅到的 地方

<2>配线

一避免接近高压、大电流的电源或电缆
 一电源极性正确,电压和纹波在范围内
 一使用专用通讯电缆,并良好接地

<2>清洁

---请定期清理前面板上的油污和后盖粉尘

【电气特性及工作环境】

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输入电压: DC12~24V±10%
功 耗: ≤1W
耐 压: AC1000V-10MA 1分钟
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操作温度: -10~50℃ 储存温度: -20~60℃ 环境湿度: 20~85%(无凝露) 抗 干 扰: 电压噪声1000Vp-p 保护结构: 表面防护等级IP65 环境湿度: 20~85%(无凝露) 周围环境: 无腐蚀性气体、液体

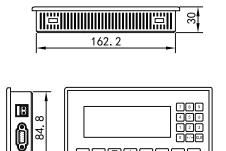
【产品特点】

| 分辨率: | 192×64(24×4字符; |
|-------|---------------------|
| | 12×4汉字) |
| 显示: | STN液晶显示,对比度可调 |
| 画面编辑: | 图形化的编辑工具,设置简单 |
| | 画面形象生动,界面友好 |
| 按 键: | 按键功能可自定义 |
| 通讯: | 可以跟三菱、西门子、台达、 |
| | 欧姆龙等多种品牌的PLC通讯 |
| 通讯方式: | 内置RS-232/422/485通讯口 |
| 特殊功能: | 文字灯;动态文字串显示; |
| | 报警列表;实时时钟 |
| 防护 | 表面防护等级1P65 耐油运 |

防 护:表面防护等级IP65,耐油污

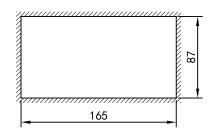
【外观尺寸和安装】

<1>外型尺寸



<2>开孔尺寸

用户可以根据实物对开孔尺寸自行调整 此开孔尺寸供参考



<3>产品固定



, 钣金面 / 安装卡扣

1、从钣金正面,将产品后盖推入钣 金开孔区域

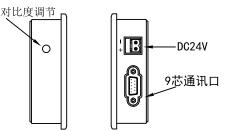
2、把固定支架卡入产品安装孔,拧 动螺丝,直至螺栓顶部顶紧安装面板

注意: 一·拧紧力度适中,以免拉坏产品外壳

一固定时螺栓要与安装面板垂直

---固定完毕后,请检查密封圈是否到位

【用户接线和对比度调节】



说明:

1、输入电源为DC12~24V±10%

2、DB9母座内含RS232/422/485三种通讯 电平,除了专用的下载线外,跟不同的 PLC通信,用不同的通信线缆

3、用小型梅花螺丝刀,调整液晶对比度

【通讯口管脚功能定义】

1、通信口引脚信号定义

| 序号 | 定义 | 5 | GND |
|----|-----|---|-----|
| 1 | TD+ | 6 | TD- |
| 2 | RXD | 7 | RTS |
| 3 | TXD | 8 | RD- |
| 4 | NC | 9 | RD+ |

2、专用下载线的接线图

| 2 | RXD | X | 2 | RXD |
|-----------|------|---|----|-----|
| 3 | TXD | | 3 | TXD |
| 5 | GND | | 5 | GND |
| 7 | RTS | | 7 | CTS |
| ∟⁄ 9PI | N FL | | 9P | |

【使用方法】

1、安装和打开上位机软件,选择好适配的PLC,并编辑工程文件

2、先连接下载线缆,再连接电源

3、在上位机中选择下载功能,下载工程 文件

4、下载完毕后,先断电,再拔掉下载线 缆

5、插上通信线缆后,再上电,然后再操 作图文显示器

注意:

1、请勿带电插拔下载线或通信线缆

2、下载线缆为我司专用

3、通信线缆需要从我司获取或按照手册 说明自行制作

【使用异常及原因】

| <1> | ·现 |]: Т | 程文件 | 不完整 | | 但无 | 显示 |
|-----|-----------------------|-----------------|------------|-----------------------------|------------|--------------|------------|
| <2> | ·现 象 估计原因 解决办法 | 3:软 5:根 | 件版本 据产品 | 两声, 不正确 标签提 件下载 | 示, | | 正确 |
| <3> | ·现 | 3:选 有 5:选 | 误、松 择正确 | .C型号 ^z :动;通i | 刊参数 类型; | な ひき の ゆう | 『不对 し通讯 |
| | | 讯 | 参数 | | | | |
| <4> | ·现 | | | 显示异 鸣器响 | | 通讯 | 中断, |
| | 估计原因 解决办法 | | | | | 屏蔽 | 线通信 |
| <5> | ·现 象 估计原因 | 3:无 | 电源或 | | | | |
| | 解决办法 | 노: 检 | 查电源 | ,或更 | 换图 | 文显 | 示器 |

说明:

- 1、所有产品均支持RS232通信;
- 2、后缀-N的产品,不支持RS422/485通信;
- 3、订购时,请说明连接的PLC类型,并购 买相应的通信线缆。

SGD-037 HMI User Manual Of New Generation

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Welcome to use the SGD series HMI. This manual contains productsfeature, structure, installation, interface etc.helpsvou operate the item smoothly. About the details of hardware and software, please read carefully.

> SANCH ELECTRIC: www.sanch.net TEL: (0595) 24678200

[Operating Precautions]

<1>Do not operate the item under the

- following conditions
- --exist condensation.
- --exist corrosive gas or dust.
- --exist oil dirty or conducting liquid.

<2>Wirina

- --do not close to high voltage and power
- source with high current or cable. -please make sure that source poleconnect-
- ing is correct, voltage and ripple current are within a predetermined range.
- --adopt specific communication cable and please ground well.

<3>Clean

--please clean oil dirty on front cover and dust on rear cover at regular intervals.

[Electric characteristics and Working Environment]

Input Voltage: DC12-24V ±10% Power Consumption: ≤1W Withstand Voltage: AC1000V-10MA in 1 min Operating temperature: -10~50 C Storage temperature: -20~60°C Noise Endurance: Voltage Noise 1000Vp-p Ambient Humidity: 20~85% (Non-condensation)

Environment: without corrosive gas or liquid

[Characteristics]

Number of pixels: 192×64 (24×4C) Display: STN (Contrast ratio adjustable) Picture edition: graphical editing tool (friendly, lively and simply interface) Key: user-defined for key functionCommunication: it can be used to communicate with PLC such as Mitsubishi, Siemens, Delta, Omron etc.

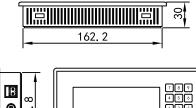
Communication Port: built-in RS-232/422/485 interface

Special Function: Text light; dynamic text string display; Alarm list, RTC

Degree of protection: IP65, withstand oil dirty

[External Dimension and Installation]

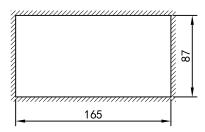
<1>External Dimension





<2>Cut-Out

The following cut-out is for user's reference and the user can judge it according to reality.







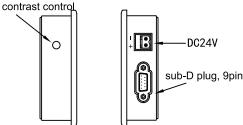
sheet metal face

1.Push rear cover to the cut-out by sheet metal face.

installation latch

- 2.Secure the spring terminal by tighteningthe recessed head screws to panel.
- Precaution
- --screw gently in case the cover is damaged. --spring terminals should vertical with panel when fixed.
- --please check the position of the installation seal after fix.

User cable and contrast ratio adjustment



Instruction:

1. Input voltage DC12-24V ±10%.

2. DB9 socket with RS232/422/485 level. Except specific downloading cable, adoptdifferent cable when communicate with different PLC.

3. Adjust contrast ratio by screwdriver .

[Pin allocation]

1. The function of communication pin

| • • | | | | | | | | |
|-----|-----|------------|--|---|-----|--|--|--|
| | Pin | Allocation | | 5 | GND | | | |
| | 1 | TD+ | | 6 | TD- | | | |
| | 2 | RXD | | 7 | RTS | | | |
| | 3 | TXD | | 8 | RD- | | | |
| | 4 | NC | | 9 | RD+ | | | |

2.Specific downloading cable connection instruction

| 2 | RXD | \vdash | 2 | RXD |
|---|-----|----------|---|-----|
| 3 | TXD | | 3 | TXD |
| 5 | GND | | 5 | GND |
| 7 | RTS | | 7 | CTS |

sub-D plug, 9pin

sub-D plug, 9pin

[Proceed as follows]

- 1. Install and activate pc software then select adaptive PLC and edit project on pc .
- 2. Connect downloading cable between HMI device and PC first and then switch on power supply.
- 3. Select downloading at pc and then transferto HMI device.
- 4. Please switch off the power supply first and then take off downloading cable after download.
- 5. Connect communication cable first and then switch on the power supply last operate graphic display

Note:

- 1. Do not connect or remove the download cable when HMI device is on power.
- 2. Use only approved cable by us .
- 3. Please use our communication cable or made by user referring to the manual.

Exceptional operating situation and corresponding reasons

- <1>Situation:Back lights, buzzer rings but screen without action
 - Presumptive Reason: Project document bugs Solution:Re-download
- <2>Situation:Buzzer rings twice and configuration picture cannot be downloaded Presumptive Reason: Software version is
 - incorrect. Solution:Use correct software downloading according to the product label
- <3>Situation:Failure to communicate with PLC Presumptive Reason: Choose the wrong PLC,
 - Use wrong cable or cable looses Set communication parameter incorrectly
 - Solution: Choose the correct PLC Make sure the cable is correct,Set the correct communication parameter
- <4>Situation: Display exception happens timely or communication brakes off with buzzer rings
 - Presumptive Reason: Exist interference source nearby
 - Solution:Use independent power source and shield cable
- <5>Situation:Back does not light and buzzer does not ring after power is on
 - Presumptive Reason: Without power source, power pole connects incorrectly or graphic display hardware faults.
 - Solution:Check the power source or replace the graphic display
- Statement ·
- 1. All modes support RS232 communication
- 2. Modes with suffix N do not support RS422/485 communication
- 3. When purchase, please inform PLC type and purchase specific communication cable

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