

Gm8802s-c (high speed weight control module) and Wilenton external touch screen

1. Module part



Functional features

- ◆ Automatic check weight balance control module, with sorting, check weight two working modes
- ◆ Card rail installation, OLED display, Chinese/English operation interface, display can be encrypted and closed
- ◆ The belt speed can be automatically adjusted by inputting the detection speed of the measured object
- ◆ Support zero zone or switch quantity detection two ways to identify the measured object on the scale
- ◆ The maximum support for 5 levels of sorting, with over and under error alarm, dynamic zero clearing function
- ◆ Dynamic compensation coefficient for the weight of the measured object
- ◆ The standard RS485 serial port is conducive to connecting HMI and supporting the mainstream bus in the existing market
- ◆ Communication optional extension, for the customer system expansion to bring great convenience
- ◆ Optional RS232 to realize real-time printing of various data

Product features

Gm8802s-c is a small weight check control module mounted on a card rail. Chinese/English display, friendly operation interface; Germain technology provides the core weight control

function, with control I/O for quick response to the weight control core;The standard RS485 serial port is conducive to connecting HMI, and supports the expansion of the mainstream bus communication in the existing market, which brings great convenience to the expansion of customer system.It is suitable for rapid detection and high-speed sorting and sorting control of the weight of packaged products or individual objects in the production process of various industries.It is widely used in chemical industry, logistics, medicine, food, printing, electronics and other industries.

Technical parameters

General specifications:

Switching power supply: DC24V±5%

Operating temperature: -10-40°C

Maximum humidity: 90%R.H no condensation

Power consumption: about 10W

Protection level: Front panel IP65

Physical size: 110*89*60(mm)

Display and buttons:

Weight display: 1.3-inch OLED black and white screen

Negative number display: "-"

Overload display: "OFL"

Function keys: 4-key vocal keyboard

Measurement parameters:

A/D Performance: 24-bit delta-Sigma

A/D conversion speed: 120/240/480 times/SEC

Nonlinearity: 0.01%F.S

Gain drift: 10PPM/ ° C

Input sensitivity: 0.1UV /d

Zero adjustment range: 0.02-8mV (2mV/V for sensor)

Input range: Max. 0.02-10mV(2MV/V for sensor)

Accuracy: 1/100000

Sensor excitation power supply: DC5V, single drive 8 350 ω sensors

Input impedance: 10M ω

The I/O parts:

Inputs: 4, active low

Start/Stop/Clear Zero/Clear alarm/Print/On-stage detection sensor/off-stage detection sensor

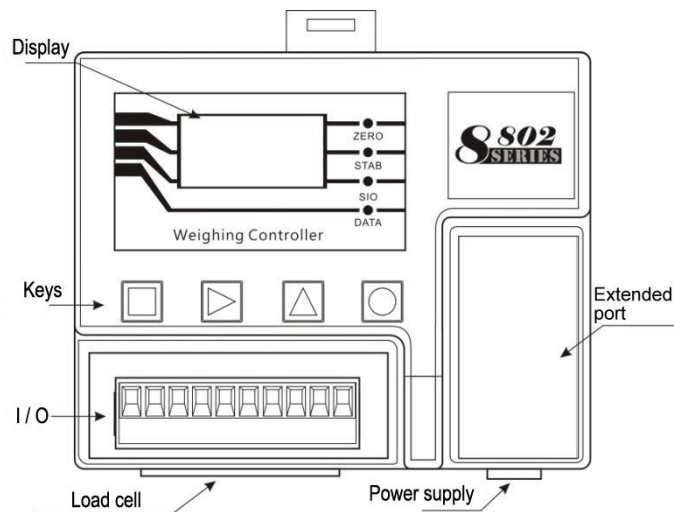
Output terminal: 6, single drive current 500mA

Run/Stop/busy/hold/over/Qualified/under/alarm/On/Off/over/under/batch alarm/upper limit/upper limit/lower limit/lower limit





Communication expansion board

1. Analog (16-bit D/A) 2.RS232/RS485 3. Profibus-dp 4.Modbus TCP

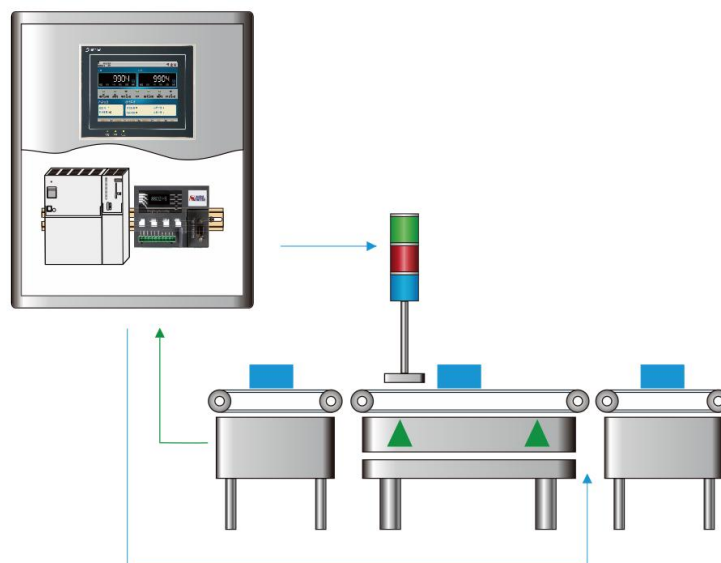
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Key instructions:

- : Clear key;Used to clear weight data and also used to exit the current functional state.
- : Select key;For toggle selection of parameter items.
- : Function key;For parameter setting and other function selection and data input when moving the flicker bit.
- : Confirm key;Used for parameter setting or calibration to enter options or confirm the current function.

Schematic of application



2. Plug in the touch screen part

The use of the main serial port can be equipped with Willenton 7 inch (cMT2079X) or 10 inch (cMT2109X2) touch screen, more convenient operation.

cMT2079X

cMT2109X2



- ◆ 7" 800 x 480 TFT LCD, LED 背光灯。
- ◆ 四核心 Cortex-A35 CPU 搭配高性能 3D 处理器。
- ◆ 无风扇冷却系统。
- ◆ 内置 4 GB 闪存及万年历。
- ◆ 内置电源隔离。
- ◆ NEMA4 / IP66 前面板防护等级。
- ◆ 10.1" 1024 x 600 TFT LCD, LED 背光灯。
- ◆ 内置 4 GB 闪存及万年历。
- ◆ 无风扇冷却系统。
- ◆ 主板涂层保护处理, 能抵抗在严苛环境中的腐蚀问题。
- ◆ 内置电源隔离。
- ◆ NEMA4 / IP66 前面板防护等级。
- ◆ 可搭配 M02 WiFi 扩展模块, 支持无线传输功能。

显示	显示器	7" TFT LCD
	分辨率	800 x 480
	亮度 (cd/m ²)	400
	对比度	800:1
	背光类型	LED
	背光寿命	>30,000 小时
	显示色彩	16.7M
	LCD 可视角 (T/B/L/R)	80/60/80/80
点距 (mm)	0.1926(H) x 0.179(V)	
触控面板	类型	四线电阻式
	触控精度	动作区 长度(X) ±2%, 宽度(Y) ±2%
存储器	闪存 (Flash)	4 GB
	内存 (RAM)	1 GB
处理器		Quad-core RISC
I/O 端口	SD 卡插槽	无
	USB Host	2.0 x 1
	USB Client	无
	以太网终端	LAN 1: 10/100 Base-T x 1 LAN 2: 10/100 Base-T x 1
	串行接口	Con.A: COM2 RS-485 2W/4W, COM3 RS-485 2W Con.B: COM1 RS-232 4W, COM3 RS-232 2W* 不支持 MPI
	RS-485 双重隔离保护	无
	CAN Bus	无
	HDMI	无
	声音输出	无
	万年历	
电源	输入电源	24 ± 20% VDC
	功耗	820mA @ 24VDC
	电源隔离	内置
	耐电压	500VAC (1 分钟)
绝缘阻抗	超过 50M Ω at 500VDC	
规格	PCB 涂层	有
	外壳材质	工程塑料
	外形尺寸	200.3 x 146.3 x 35.0 mm
	开孔尺寸	192 x 138 mm
	重量	约 0.6kg
安装方式	面板安装	
操作环境	防护等级	NEMA4 / IP66 Compliant Front Panel
	储存环境温度	-20° ~ 60°C (-4° ~ 140°F)
	操作环境温度	0° ~ 55°C (32° ~ 131°F)
	相对湿度	10% ~ 90% (非冷凝)
	耐振动	10 to 25Hz (X, Y, Z 轴向 2G 30 分钟)
认证	CE	CE CE marked
软件	EasyBuilder Pro	限于简体中文版 EasyBuilder Pro V6.05.02 或更新版本使用
	Weincloud	EasyAccess 2.0 (选购), Dashboard* (选购)
	CODESYS®	选购

显示	显示器	10.1" TFT
	分辨率	1024 x 600
	亮度 (cd/m ²)	350
	对比度	500:1
	背光类型	LED
	背光寿命	>50,000 小时
	色彩	16.7M
	LCD 可视角 (T/B/L/R)	70/70/80/80
点距 (mm)	0.2175 (H) x 0.2088 (V)	
触控面板	类型	四线电阻式
	触控精度	动作区 长度(X) ±2%, 宽度(Y) ±2%
存储器	闪存 (Flash)	4 GB
	内存 (RAM)	1 GB
处理器		Quad-core RISC
I/O 端口	SD 卡插槽	无
	USB Host	USB 2.0 x 1
	USB Client	无
	以太网接口	LAN 1: 10/100/1000 Base-T x 1 LAN 2: 10/100 Base-T x 1
	无线传输	M02 WiFi 扩展模块 (选购)
	串行接口	Con.A: COM2 RS-485 2W/4W, COM3 RS-485 2W Con.B: COM1 RS-232 4W, COM3 RS-232 2W* 不支持 MPI
	RS-485 双重隔离保护	无
	CAN Bus	无
	声音输出	无
	影像输入	无
万年历		内置
电源	输入电源	24 ± 20% VDC
	电源隔离	内置
	功耗	1A @ 24VDC
	耐电压	500VAC (1 分钟)
绝缘阻抗	超过 50Ω at 500VDC	
规格	PCB 涂层	有
	外壳材质	工程塑料
	外形尺寸	271 x 213 x 38 mm
	开孔尺寸	260 x 202 mm
	重量	约 1.2 kg
安装方式	面板安装, VESA 壁挂架 75 x 75 mm	
操作环境	防护等级	NEMA4 / IP66 Compliant Front Panel
	储存环境温度	-20° ~ 60°C (-4° ~ 140°F)
	操作环境温度	0° ~ 50°C (32° ~ 122°F)
	相对湿度	10% ~ 90% (非冷凝)
	耐振动	10 to 25Hz (X, Y, Z 轴向 2G 30 分钟)
认证	CE	CE marked
软件	EasyBuilder Pro	限于简体中文版 EasyBuilder Pro V6.06.01 或更新版本使用
	Weincloud	EasyAccess 2.0 (选购), Dashboard* (选购)
	CODESYS®	选购

*当 COM3 选择 RS-232 时, COM1 的 RS-232 只能使用 Tx & Rx (没有 RTS/CTS)。

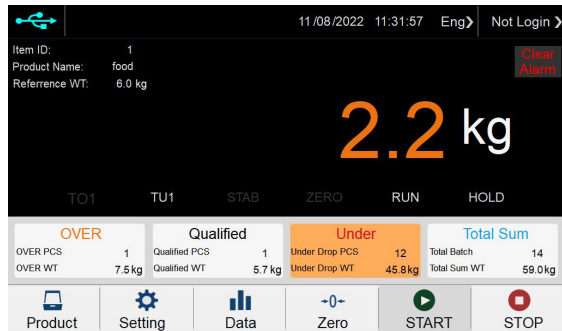
*使用 Dashboard 需要 EasyBuilder Pro V6.06.01 或更新版本。

* CODESYS® is a trademark of 3S-Smart Software Solutions GmbH.

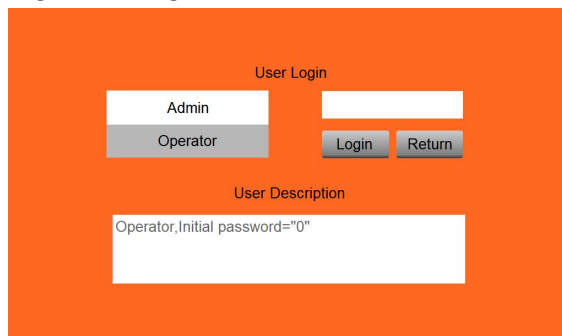
User-friendly design

User-friendly touch screen and graphical human-computer interaction interface, so that the operator can easily get started without professional training.

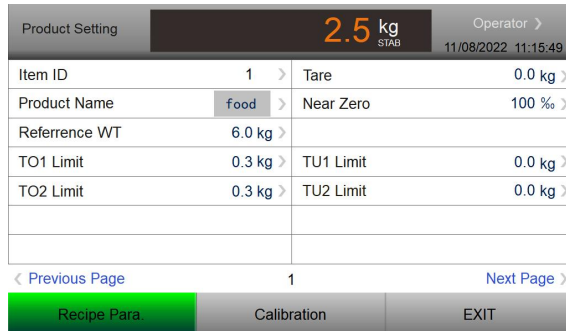
Main interface: high-speed response, simple and clear information.



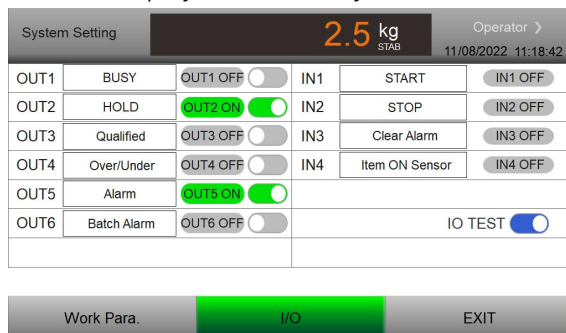
Rights management: Three-level user management



Parameter area: neatly displayed, easy to modify and view



IO area: Display and test, easy to observe and operate



Statistical area: record the weight data, can be exported by U disk

Data Record | 11/08/2022 11:20:44 | Operator

Num.	Time	Date	Result	Weight	Reference WT	TO1 Limit	TO2 Limit
9	11:20	11/08/2022	Qualified	5.7	6.0	0.3	0.3
8	11:20	11/08/2022	Under	5.3	6.0	0.3	0.3
7	11:20	11/08/2022	Under	4.8	6.0	0.3	0.3
6	11:20	11/08/2022	Under	5.1	6.0	0.3	0.3
5	11:20	11/08/2022	Over	7.5	6.0	0.3	0.3
4	11:20	11/08/2022	Under	5.3	6.0	0.3	0.3
3	11:20	11/08/2022	Under	4.9	6.0	0.3	0.3
2	11:20	11/08/2022	Under	1.1	6.0	0.3	0.3
1	11:20	11/08/2022	Under	3.5	6.0	0.3	0.3

Delete Data

Export Data to U-disk

Tips >

History | Grand Total | Alarm History | EXIT

Historical alarm area: easy to view the alarm information of the instrument

Data Record | 11/08/2022 11:26:14 | Not Login

Trigger Time	Message
11:22:56	Alarm2:When clearing, the weight exceeds the clearing range

Clear Alarm History

History | Grand Total | Alarm History | EXIT