

## Weighing Instrument Selection Manual





# ENTERPRISE PROFILE



30 years
Industry Experience



**40** Country Sales





2000<sup>+</sup> Applications

General Measure established in 1993, as one of China's earliest industrial weighing company who is also a national high-tech enterprise, has over 50 people in the R&D team. For decades, we have been committed to improving the automatic process of industrial weighing and the precision of weighing control.

In 2003, we began to open the overseas market. Since 2006, General Measure dominated the high-end market and occupying more than 25% of the market in China. To expand the global business scale, we have been focusing on overseas markets since 2012. It has been seen that the average sales growth is above 30% every year.

We will continue to provide reliable industrial weighing indicators and equipment with excellent performance and weighing solutions with innovative value to our partners. Listening, Innovating, and growing together is our value, which guides us to achieve win-win cooperation by helping clients achieve their goals.

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# GMT-X1

## **Weighing Transmitter**

(Digital Version Available)



GMT-X1, a DIN rail-mounted weighing transmitter for industrial automation, can be used in various system weighing applications, such as weight checking, loss-in-weight, liquid filling, batching, vessel and silo weighing, etc. Through Bluetooth, it can be connected to Weasy App for configuration and monitoring.



## **SOFTWARE HIGHLIGHTS**

- Liquid filling software selectable;
- Calibration without weights (by loadcell sensitivity value);
- Printer function ;
- Self-testing for I/O and communication port;
- Self-editable boot screen;





## **HARDWARE HIGHLIGHTS**

- Stainless steel case with compact design;
- Different configuration choice, a variety of combinations;
- Standard: RS485 + RS485/RS232(Selectable)

Option 1 3 Input 5 Output or 3 Input 4 Output relay (Optional);

Option 2 RS485+16bit Analog or 2 Input 4 Output or CAN OPEN;

Option 3 | Modbus TCP or Ethernet/IP or Profinet or Profibus DP;

(Hardware Option1,2,3 can be selected at the same time);

Bluetooth communication.

#### **Digital Version**

#### Standard:

- RS232 or RS485 selectable;
- RS485 for digital loadcell interface;

#### **Options:**

Same as common version;







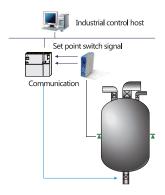




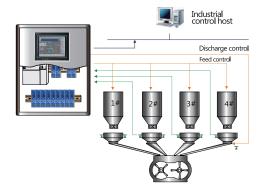


Standard Specification				
	Model	GMT-X1	GMT-X1 Digital Version	
	Power Supply	DC 24V(1	2~30VDC)	
General	Working temperature	-10°C	~40°C	
Specifications	Maximum humidity	90% RH.w	vithout dew	
	Testing standards	Class III 60	000 e,1μV/d	
	Power consumption	Abou	ut 5W	
	A/D performance	24 bit Delta-Sigma	N/A	
	A/D conversion speed	50~960 times/per second	N/A	
	Non-linearity	0.01%F.S	N/A	
Measurement	Gain drift	10PPM/°C	N/A	
Parameters	Input sensitivity	0.1μV/d N/A		
	Display Accuracy	1/1,000,000	1/1,000,000	
	Weighing Platform Requirement	1 simulation scale interfacecan connect up to 8 load cells with 350Ω, Support sensitivty in 1mV/V、2mV/V、3mV/V		
	Sensor power supply	DC 5V 200mA(Max)	DC12V 250mA, up to connect with 8 digital load cells	

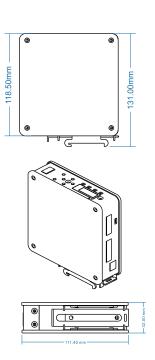
## Application



Set point weighing application



Multi-material batching application





GMT-X4 is a DIN rail mounted weighing transmitter with four-channel. It has the characteristics of compact design, stable performance, and easy operation, which can be used for various weighing applications, such as weight checking, loss-in-weight, liquid filling, batching, vessel and silo weighing, etc.



## HARDWARE HIGHLIGHT



- Stainless steel housing with compact design(62X134X128mm);
- Different configuration choices, a variety of combination;

#### **Standard**

Option1

- 1 4-channel of 6-wire load cell interfaces;
- @ RS485 & RS232;
- 3 4 Input 8 Output I/O;

Modbus TCP /IP or EtherNet/IP or ProfiNet or EtherCat or CCLink IE;

Option2 4-channel analog output;

Option3 CAN open;

(Option1, 2, 3 can be selected at the same time.)











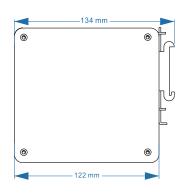


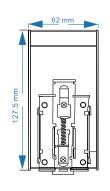


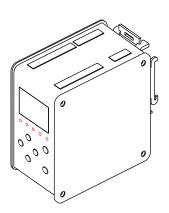
## **SOFTWARE HIGHLIGHT**

- Zero point reset function: support resetting the zero point as before power failure when re-powering;
- Theoretical value calibration, stable within 3s of the calibration process automatically;
- Remote monitoring and configuration by PC with Modbus TCP connecting up to 6 devices at once;
- Input anti-vibration function, which time can be set.

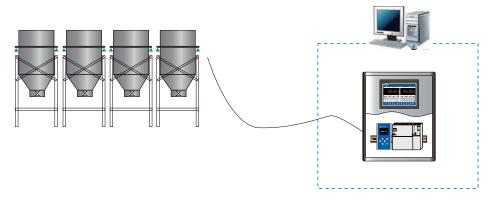
Specification		
	Model	GMT-X4
	Power	DC 24V ±5%
	Size	62mm ×134mm ×128mm
General	Weight	Approx. 880g
Specifications	Operating Environment	-10 ~ 40℃; 90%R.H,No Condensation
	Storing Environment	-40 ~ 60℃; 90%R.H,No Condensation
	Power Dissipation	10W
	Weighing Platform	5V/ 200mA/MAXVohonnol
	Excitation Voltage	5V, 200mA(MAX)/channel
	Weighing Platform	4 simulation scale interface, can connect up to 40 load
	Requirement	cell with $350\Omega$ , support sensitivity 1mV/V, 2mV/V, 3mV/V
Measurement Parameters	Sensitivity	0.1uV/d
	Non-Linearity	0.01% F.S
	A/D Conversion Speed	50/60/100/120/200/240/400/480/800/960/SPS
	Maximum Display Accuracy	1/1,000,000







## Application Diagram



Multi-material batching application



The GMT-P1 is a panel/harsh-mounted weighing transmitter that offers exceptional reliability, advanced filtering, and tested ability to perform stably under interference of harsh industrial environments. It is customized for dynamic weighing systems with the highest demand for reliability, response speed and accuracy.



- OIML R76 approval;
- With second generation anti-vibration filter;
- Support calibration without weights;
- 1,000,000 weight resolution ability;







## HARDWARE HIGHLIGHTS

#### **Standard**

- RS232 or RS485 selectable by switch;
- 1 input 2 output I/O;

#### **Options**

- Single network port + RS232/RS485 selectable, support Modbus;
- Dual network ports, support ModbusTCP;
- Profinet or Ethernet IP or EtherCAT or CCLink IE;
- Analog output.

### **Digital Version**

#### **Standard**

- RS232 or RS485 selectable by switch;
- RS485 for digital loadcell interface;
- 1 input 2 output I/O;

#### **Options**

16-bit analog output (Voltage/Current Type);







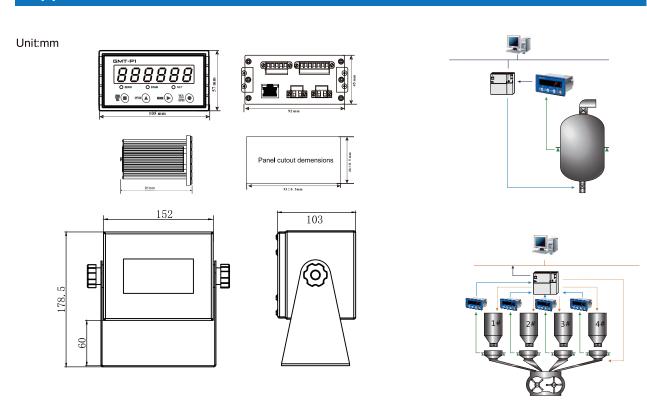






Standard Specification				
	Model	GMT-P1	GMT-P1 Digital Version	
	Power Supply	DC 24	4V±5%	
General	Working temperature	-10°C	~40°C	
Specifications	Maximum humidity	90% RH.w	vithout dew	
	Testing standards	Class III 60	000 e,1µV/d	
	Power consumption	About 10W		
	A/D performance	24 bit Delta-Sigma	N/A	
	A/D conversion speed	30/60/120/240/480/960 times/per second	N/A	
	Non-linearity	0.01%F.S	N/A	
	Gain drift	10PPM/°C	N/A	
Measurement Parameters	Input sensitivity	0.01µV/d	N/A	
Farameters	Maximum input voltage	0~15mV	N/A	
	Display Accuracy	1/1,000,000	1/1,000,000	
	Load cell excitation	DC 5V,200mA(Max),Up to 8 load cells (350Ω) can be connected	DC12V, 250mA, up to connect 8 digital load cells	
	Dust/water protection	The IP65 display when mounted into a panel		

## Application





#### **PRODUCT INTRO**



GMT-H1 weighing transmitter is designed for industrial weighing application. It's harsh mount, IP65 protection widely used in silo and vessel weighing field.

#### **FEATURES**

- Anti-dust and waterproof harsh mount case;
- 6-wire loadcell interfaces, connecting up to 8 load cells in 350Ω;
- Support theoretical data calibration;
- Support GPRS, Modbus-RTU, Modbus-TCP/IP, RS485 for communication;
- The function of automatic upload relevant weighing data;
- Through IO port to get the information of material level.

#### **DIGITAL VERSION**

#### **Standard**

- RS485 for digital loadcell interface;
- RS485 support ModbusRTU;
- Standard network port, support ModbusTCP;
- 3 inputs 3 outputs, 3 self-defined I/O (input or output);

#### **Options**

GPRS data transmission function;

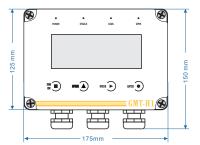


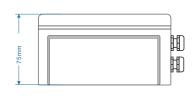






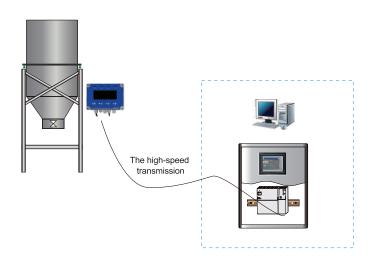
Standard S	pecification		
	Model	GMT-H1	GMT-H1 Digital Version
	Power	AC 90~260V 50Hz(or 60Hz)±2%	
General	Temperature	-20°C~60°C;90% RH.without dew	
Specifications	Power consumption	Abou	t 10W
	Weights	75	50g
	A/D conversion	24 bit Delta-Sigma	N/A
	Sampling rate	Sampling rate, initial value:100times/sec, range: 50,60,100,120,200,240,400,480 times/sec	N/A
	Nonlinearity	0.01%F.S	N/A
Management	Gain drift	10PPM/°C	N/A
Measurement Paramenters	Sensitivity	<u>0.1μV/d</u> / <u>0.5μV/d</u>	N/A
	Input range	Max 0.02~15mV	N/A
	Maximum display accurarcy	1/100,000	1/100,000
	Weighing platform load cell	1 simulated weighing platform load cell interface can connect up to 8 load cells that is in $350\Omega$ , and the sensitivity in $1mV/V$ . $2mV/V$ . $3mV/V$ .	1 digtial load cell interface, up to connect 8 load cells
	Load cell excitation	DC 5V 200mA(Max)	DC 12V 250mA
	RS485(Standard); Support ModbusRTU, continuous transmission protocol		
I/O Interfaces and	RJ45(Standard); Support Modbus-TCP, continuous transmission protocol		
Communications	GPRS data transmission function		
	Fixed IO: 3 Input, 3 Output		
	Optional IO: 3 more (can be selfdefined as output or input)		





Unit: mm

## Application





GMT-H2 is a wall/desk-mount weighing transmitter, with stainless steel shell which reaches IP65 protection. 2-inch LED display with 6 digits and 6 indicator lights. It can be widely used in the industrial automation fields, such as silo weighing, platform weighing, weight checking, loss-in-weight, liquid filling, batching, and so on.

#### **Anti-explosion Version Available**

Anti-explosion version GMT-H2ex is suitable for explosive industrial field. Cast aluminum explosion-proof enclosure, 4 metal buttons, AC220V / DC24V dual power supply configuration.

Ex d IIB T6 Gb / Ex tD A21 IP66 T80°C





## HARDWARE HIGHLIGHTS



Standard

- 2 RS485, 1 RS232 ports;
- 4 in 6 out I/O ports;









**Options** 

- 1 analog output;
- Modbus TCP, or Profinet(support Siemens PLC connection), or Ethernet IP (Omron or Schneider PLC connection) or EtherCAT (developing phase, Omron or Schneider PLC connection).

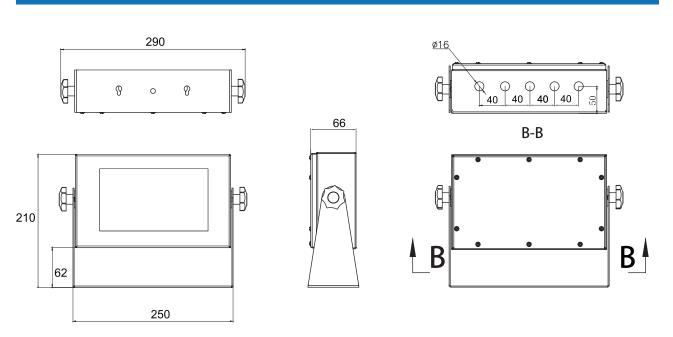
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#### **SOFTWARE HIGHLIGHTS**

- · Zeroing and taring functions;
- Analog functions;
- Serial port communication functions;
- Simple weighing functions: weight collect, filter and display;
- Calibration with or without weights, support 5 points calibration with weights;
- Print function;
- I/O preset point function;

Standard Specification				
	Model	GMT-H2	GMT-H2ex	
	Power Supply	DC 24V ( 12~30VDC )	AC220V / DC24V dual power supply configuration	
General	Working temperature	-10°C	~40°C	
Specifications	Maximum humidity	90% RH.v	without dew	
	Testing standards	Class III 60	000 e,1µV/d	
	Power consumption	About 10W		
	A/D performance	24 bit Delta-Sigma		
	A/D conversion speed	30/60/120/240/480/960 times/per second		
	Non-linearity	0.01%F.S		
Measurement	Gain drift	10PPM/℃		
Parameters	Input sensitivity	0.1µV/d		
	Maximum input voltage	0~15mV		
	Display Accuracy	1/1,000,000		
	Load cell excitation	DC 5V,200mA(Max),Up to 10 load cells(350Ω) can be connected		

## **Dimension** unite:mm





GM7702, a digital weighing transmitter with the standard dimension, is suitable for mounting on DIN rail in many industrial fields. Small size and compact design make it ideally integrate with whole weighing sector. Due to its high practicability, stability and easy operation, GM7702 can be widely applied to the industry of feeds, chemical, concrete and bitumen mixing, metallurgy smelting, etc.

#### **DESCRIPTION**





#### **Standard**

- With RS232/485 serial ports and support remote control;
- Support tare, preset tare function;
- Equipped with 2 IN 3 OUT I/O module.





#### **Compact Design**

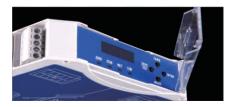
Small size and compact design with standard 35mm DIN mounting;





#### **Optional Communication**

 Optional 16bit high-precision analog output: 0~24mA, 0~5V, 0~10V and user-defined analog output.

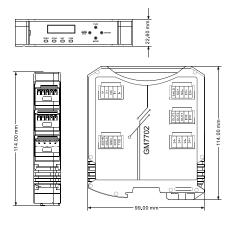


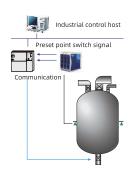




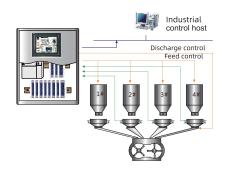
Standard s	pecification	
	Model	GM7702
General	Power Supply	DC 24V
Specifications	Working temperature	-10°C~40°C
	Maximum humidity	90% R.H without dew
	A/D performance	24 bit Delta-Sigma
	A/D conversion speed	120/240/480 t/s
	Non-linearity	0.01%F.S
	Gain drift	10PPM/℃
Measurement	Input sensitivity	0.02µV/d
Parameters	Input range	-15mV~15mV
	Maximum display accuracy	1/100,000
	Load cell power	DC 5V 100mA(Max)
	Input impedance	10ΜΩ
	Zero steady range	-15mV~15mV(Load cell 3mV/V)
	Inputs	2,active low
		Zero/tare/trigger preset point n (n=1/2/3/4)
I/O Part	Outputs	3,single drive current 500mA
I/O Fail		Stabilization/Overfilow/Trigger Point n Output
		(n=1/2/3/4)/Upper/Middle/Lower Limit

## **Dimensions**Unit:mm





Preset point mode weighing application



Multi-material serial weighing and networking

GM8802S-T weighing indicators are specially designed for weight transmitting in industrial fields, winch have features of small volume, plenty communicating commands, stable performance, easy operation and practicability, so they are widely applied to concrete and bitumen mixing equipment, commodity industry, chemical industry and feed, etc.

#### **DESCRIPTION**



- Weigh controller module with optional preset point function;
- Easy operation and installation, equipped with OLED display;
- RS485 communication as standard to connect with a PLC;
- A variety of expansion modules are available to support various external communication output modes.

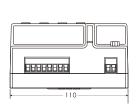


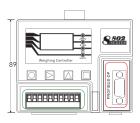


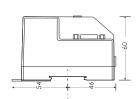


## **DIMENSIONS**

Unit:mm







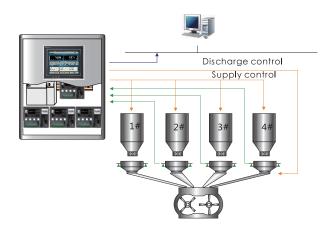




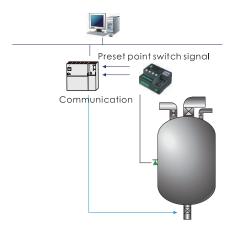


Standard specification		
	Model	GM8802S-T
	A/D Conversion Method	24-bit Delta-Sigma modulation
	Zero Adjustment Range	0.02~8mV (Load cell 2mV/V)
Measurement	Nonlinearity	0.01%F.S
Parameters	Maximum Input Voltage	0.02~10mV (Load cell 2mV/V)
	Minimum Sensitivity	0.1μV/d
	Input Impedance	10ΜΩ
	Sampling Rate	120/240/480 t/s.
	Display Resolution	1/100,000
	Load Cell Excitation	DC5V,200mA(Max),Up to 8 load cells can be connected
	Display Element	1.3 inch OLED screen
	Status Indicators	ZERO,STAB,SIO,DATA
General	Power Source Voltage	DC 24V ±5%
Specifications	Power Consumption	Approx.10w
	Temperature and Humidity	-10°C~40°C/90% R.H or less (Condensation must be avoided)
	Dimensions	110*89*60mm (L*W*H)
	Weight	Approx.250g

## Application



Multiple material batching machine



Preset point weighing controller



GMC-X3 is a loss-in-weight scale control module for high precision continuous dosing applications, capable of reliable, accurate and stable dosing of liquid, powder, granular and flake dry bulk materials, reducing material waste and improving mixture consistency. It is mainly used in chemical, plastic, rare earth smelting and other industries.



#### HARDWARE HIGHLIGHT



Stainless steel case, IP65 protection;

#### **Standard**

- 6-wire load cell interface;
- 1 analog output interface;
- 1 RS485, 1 RS232 interface with isolation;
- 4 inputs and 4 outputs + 4 self-defined transistor input or output interfaces;

#### **Options**

- Modbus TCP /Profinet;
- 1 Analog input (current/voltage optional) +
  1 analog output interface;







## **SOFTWARE HIGHLIGHT**

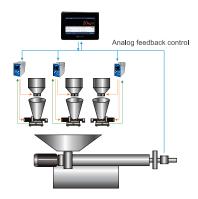
- New generation flow control algorithm, more stable;
- Support analog calibration, automatic/manual calibration of flow rate;
- Automatic locking and unlocking function for flow interference;
- Support two devices to access the instrument parameters function simultaneously (ModbusTCP);
- Support multiple working modes:
- 1. Flow calibration mode:
- 2. Dosing mode:
- 2.1. Flow rate presetting and flow rate giving mode;
- 2.2. PID control mode, segment control mode;
- Threshold anti-interference function, which makes the working process of the instrument more stable;
- Multi-material function, support up to 10 sets of material parameters, convenient to switch between different material parameters.

Standard S	pecification	
	Model	GMC-X3
	Power Supply	DC 24V ( 18~36VDC )
General	Approved Environment	-10°C~40°C
Specifications	Maximum humidity	90% R.H without dew
	Testing standards	Class III 6000 e, 1 μ V/e
	Power Dissipation	15W
	Load cell excitation voltage	5V 200mA(MAX)
	Load cell connection	1load cell interface, 6-wire with compensation, up to 8 load
		cells with 350 $\Omega$ , support 1mV/V、2mV/V、3mV/V sensitivity.
	Analog Input Range	0~15mV
Measurement Parameters	Input sensitivity	0.1μV/d
	Non-Linear	0.01%F.S
	A/D Conversion	480 times/sec
	Display Accuracy	1/1,000,000
Communication Interface	Standard	<ul> <li>1 analog output interface</li> <li>1 RS485, 1 RS232 interface with isolation</li> <li>4 inputs and 4 outputs + 4 self-defined transistor input or output interfaces;</li> </ul>
mondo	Optional	<ul><li>Modbus TCP /Profinet;</li><li>1 Analog input (current/voltage optional) +</li><li>1 analog output interface;</li></ul>

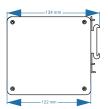
## Application Diagram



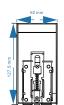
Continuous Dosing Application



Multi-heads Continuous Dosing









M04-2 software supports for multi-type bagging scale application.



#### **Version Features**

#### **MULTI-Mode**

Supporting the hopper/non-hopper mode and the double scale interlocking mode (two controllers working synchronously).







Supporting I/O tests, easy for products debugging.



Automatic three-material speed feeding control, with optional manual slow feeding function.



Multiple digital filtering to improve the anti-interference capability of the packaging scale.



Batch setting function, patting bags function, suitable for packaging powder materials



Feed control function, convenient for controlling the connection between packaging scale and feeding equipment.

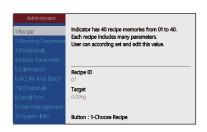


Multiple levels of operating permissions, such as users, administrators and system administrator.

#### **Button Functions**

One-click button can be set for recipe selection, batch setting, parameter calibration, etc.





#### **Database**

It can store 20 groups of recipes. For each recipe, the target value, fast/slow feeding mode, drop value and other parameters can be set up manually.

#### I/O Port

#### 8 Input/12 Output

Used to start and stop, and carry out A/B scale feeding, A/B scale unloading and other operations.

#### ModbusTCP

For connecting PC, PLC, Printers, etc., for reading remotely.

#### RS485+RS232

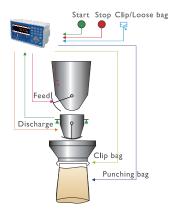
For connecting PC, PLC, Printer, Label Printer, Remote Display, or other external devices, for reading and setup remotely.

#### **USB**

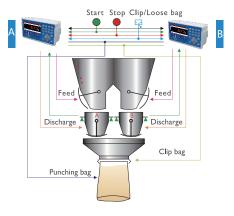
For importing and exporting recipes, works, I/O function, communication and other parameters, upgrading system software, customizing boot screen, etc.



#### Application Diagram



Single Channel Packaging Controller with Hopper



Double Channel Packaging Controller with Hopper



M04-D software supports for multi-type bagging scale application (dual mode).



#### **Version Features**

#### MULTI-Mode

Supporting hopper / non-hopper mode, pnenmatic and electric mode.







Supporting I/O tests, easy for products debugging.



Automatic three-material speed feeding control, with optional manual slow feeding function.



Multiple levels of operating permissions, such as users, administrators and system administrator.



Batch setting function, patting bags function, suitable for packaging powder materials



Feed control function, convenient for controlling the connection between packaging scale and feeding equipment.



Multiple digital filtering to improve the anti-interference capability of the packaging scale.

#### **Button Functions**

Shortcut key can be set to facilitate formulation selection, batch setting, parameter calibration and other operations.



#### **Database**

It can store 40 groups of recipes. For each formula can input target value, fast/slow feed, drop value and other parameters. Parameters can be entered manually or imported through USB interface.



#### I/O Port

#### **USB**

For importing and exporting formula, working, I/O function, communication and other parameters, also for upgrading system/software, and customizing boot screen.

#### RS485+RS232

For connecting PC, PLC, printer, label printer, remote display, coding machine or other external equipment, which can be used for remote reading and setting.

#### 12 Input/17 Output

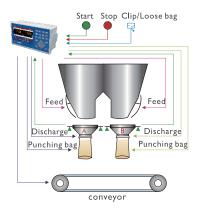
For starting, and stopping, and carrying out A/B scale feeding, A/B scale unloading and other operations.



#### Application Diagram



Double Channel Packaging Controller with Hopper



Double Channel Packaging Controller without Hopper



M04-5 software supports for continuous weighing bulk scale application to solve the problem of batch weight and automatic totalizing of incoming and outgoing materials.

#### **Version Features**

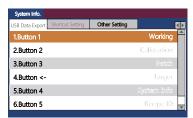
#### **Updated Algorithm**

Weighing control faster and more accurate;

AD conversion rate 960times/sec;









Supporting I/O tests, easy for products debugging.



Automatic three-material speed feeding control, with optional manual slow feeding function.



Multiple digital filtering to improve the anti-interference capability of the packaging scale.



Batch setting function.



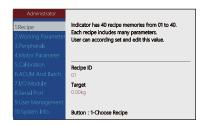
Feeding control function facilitates the control connection between feeding equipment and discharging equipment.



Multiple levels of operating permissions, such as users, administrators and system administrator.

#### **Button Functions**

One-click button can be set for recipe selection, batch setting, parameter calibration, etc.





#### **Database**

It can store 20 groups of recipes. For each recipe, the target value, fast/slow feeding mode, drop value and other parameters can be set up manually.

#### I/O Port

#### 8 Input/I2 Output

Used to start and stop, and carry out A/B scale feeding, A/B scale unloading and other operations.

#### ModbusTCP

For connecting PC, PLC, Printers, etc., for reading remotely.

#### RS485+RS232

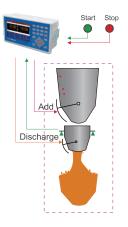
For connecting PC, PLC, Printer, Label Printer, Remote Display, or other external devices, for reading and setup remotely.

#### **USB**

For importing and exporting recipes, works, I/O function, communication and other parameters, upgrading system software, customizing boot screen, etc.



#### Application Diagram



Continuous Weighing

M04-6/6D software supports for single/double nozzle liquid filling application.



#### **Version Features**

#### M04-6/M04-6D

Selective single or double hopper filling scale: M04-6 or M04-6D







Supporting I/O tests, easy for products debugging.



Automatic two-material speed feeding control.



Multiple levels of operating permissions, such as users, administrators and system administrator.



Batch setting function.



Feeding control function facilitates the control connection between filling scale and frontend feeding equipment.



Multiple digital filtering to improve the anti-interference capability of the packaging scale.

#### **Button Functions**

Quick access key can be set to facilitate formulation selection, batch setting, parameter calibration and other operations.

## Auxiliary logic programming function

Up to 6 sets of logic trigger signals can be defined, and simple logic signal output can be configured to control the upper barrel, gland, coding and other auxiliary devices.

#### ▶ Database

It can store 20 groups of recipes. For each formula can input target value, fast/slow feed, drop value and other parameters.

## Intelligent feeding control

Automatic adjustment of fast feeding, slow feeding, filling scale speed and accuracy to achieve the best.





#### I/O Port

#### RS485+RS232

For connecting PC, PLC, printer, label printer, remote display, coding machine or other external equipment, which can be used for remote reading and setting.

#### **USB**

For importing and exporting formula, working, I/O function, communication and other parameters, also for upgrading system software, and customizing boot screen.

#### 8 Input/12 Output

For starting, stopping, feeding, unloading, clamping/loosening, etc.

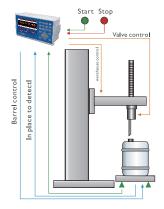




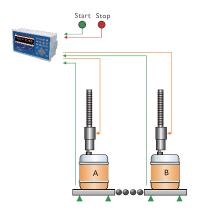




#### Application Diagram







Double Nozzle for Liquid Filling Application



GMC-P7 weighing controller is designed for dynamic weighing/packing/batching applications, widely used in grain and seeds, feeds, rubber and plastic, and the chemical industries.

## **DESCRIPTION**





## **Application Software**

#### **Multiple Software Selection:**

- Simplex packing;
- Duplex packing;
- Reduce weight method packing;
- Bulk Scale (Continuous weighing);
- Batching scale.







## **User-friendly Design**

- 7-inch touch screen, interactive design, and easy operation;
- Record the weight of every pack, million data storage and export.

( Esc			0.98 kg	2021/01/0 Adr	
	Total ACUM	5	pes	0,01 kg	
	Recipe ID	ACUM pcs		ACUM Weight kg	< 1−8
	01	20		10000000.00	
User ACUM	02	5		50000000,00	9-16
	03	40		0.00	17-20
History	04	0		0.05	
Data	06	0		0.00	Clear All
Print	06	50		50000000.05	Recipe ACL
S Home	Statistic	X   A		ats E-Stop	Start



## **Multiple Communication Methods**



- RS232+RS485 for connecting PC, PLC, Printer, Label Printer, Remote Display, Code Printer, or other external devices, for reading and setup remotely;
- 12 Input/16 Output for starting, stopping, unloading, clamping/loosening bags, etc.;
- Modbus TCP for connecting PC, PLC, Printer, etc., for reading remotely;
- **USB** for importing and exporting recipes, I/O function communication parameters and other working parameters, upgrading system software, customizing boot screen, etc.

Standard Sp	pecification	
	Model	GMC-P7 (CoPro Series)
	Power Supply	DC 24V plus or minus 5%
General	Working temperature	-10°C~40°C
Specifications	Maximum humidity	90% R.H without dew
	Testing standards	Class III 6000 e, 1 µ V/d
	Power consumption	About 15 w
	A/D performance	24 bit Delta-Sigma
	A/D conversion speed	120/240/480 times/per second
	Non-linearity	0.01%F.S
	Gain drift	10PPM/°C
Measurement	Input sensitivity	0.02μV <b>/</b> d
Parameters	Display Accuracy	1/100,000
	Input range	0.02~15mV
	Sensor power supply	DC5V 125mA(Max)
	Input impedance	10ΜΩ
	Zero steady range	Maximum 0.002 ~ 15mV(Load Cell 3mV/V)
Application Software	<ul><li>Simplex packing;</li><li>Reduce weight method packing;</li><li>Batching scale.</li></ul>	<ul><li>Duplex packing;</li><li>Bulk Scale (Continuous weighing);</li></ul>
Function extension	Equipped with GMA-X1 automatic tra	action module, reduce workforce cost

# Dimension Unit:mm Page 190 P



GMC-P7(F8) is a high precision weighing controller with 7-inch touch screen. It is easy for operation and checking data. The new algorithm and optimized A/D conversion scheme make the weighing transmission faster and more accurate. A variety of optional communication interfaces make it easier to interact with data between various equipment systems. It can be used in harsh environment for the applications of platform scale, silo weighing, animal weighing, counting, and truck scale.



#### HARDWARE CONFIGURATION





#### Standard:

- 5 input (TTL), 9 output (5 TTL and 4 relay output),
   I/O position can be customized;
- 2 RS485 and 1 RS232;
- Modbus TCP;

#### **Options:**

- Profinet or Ethernet/IP;
- 1 analog output;

#### **Digital Version**

#### Standard:

- RS485+ RS232;
- 1 RS485 for digital loadcell interface;
- 5 inputs 5 outputs I/O;
- USB for software upgrading;

#### **Options:**

- Analog output;
- ModbusTCP or Ethernet/IP or Profinet;

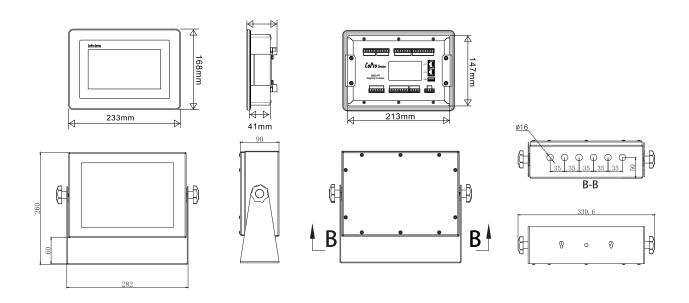


#### **FEATURES & FUNCTIONS**

- 7-inch touch screen provides good interaction, easy for operation;
- Stainless steel casing, robust and anti-interference capability;
- I/O test function and serial test function for user-friendly debugging;
- Built-in web page, which can be connected by Modbus TCP for data interaction;
- Settable upper and lower weight values, which can be read through the communication interface;
- Editable boot screen;
- Static check weigher function;
- Counting function with adaptive adjustment of unit sampling weight;
- Support the connection of printers including Epson printers, while the head and tail of the printed information can be edited.

Standard S	Specification		
	Model	GMC-P7 F8	GMC-P7 F8 Digital Version
	Power Supply	DC 24	4V±5%
General	Working temperature	-10°C	C~40°C
Specifications	Maximum humidity	90% RH.v	without dew
	Testing standards	Class III 60	000 e,1µV/d
	Power consumption	Abou	ıt 15W
	A/D performance	24 bit Delta-Sigma	N/A
	A/D conversion speed	50~960 times/per second	N/A
	Non-linearity	0.01%F.S	N/A
	Gain drift	10PPM/°C	N/A
Measurement	Input sensitivity	0.02µV/d	N/A
Parameters	Input range	0.02~15mV	N/A
	Display Accuracy	1/100,000	1/100,000
	Sensor power supply	DC 5V 125mA(Max)	DC 12V 250mA
	Input impedance	10ΜΩ	N/A
	Zero steady range	Maximum 0.002 ~ 15mV (Load Cell 3mV/V)	N/A

## Dimension





# GM9907-L2/LD

## **Packing Controller**

(L2:Simplex Packing LD:Duplex Packing)



GM9907-L2/LD is the simplex/duplex packing controller, widely used for, granule packing scale, powder packing scale,big bag,valve type scale-cement, etc.



#### **Version Features**

#### User-Friendly · Better Experience

- Memory card build in, 7-inch touch screen for displaying clearly and operating easily, Single/double scale interface mode switching;
- L2: Simplex packing; LD: Duplex packing; can be choosed, interface displayed accordingly;





• Multi-Mode: With Hopper, No Hopper, Big Bag Scale, Valve Scale, PLC;

Scale Structure		With Hi	opper >	Manual Uni	ock Bag	C
Working P	Mode	Single 5	Scale >	DISC Gate	Pos Detect	C
Filing	Scale Struct	ure				× C
Fil Ga						C
Clamp	W	ith Hooper	No F	lopper	Big Bag Scale	C
	10	alve Scale		LC		



• Self-Adaptive: I/O Programmable;

	Heart arts Tons	OFF To On ,		OFF To On Edge Trigger	₹
	User Logic Type	Edge Trigger	User Logic Type	Edge Trigger	
Recipe > ACUM	Logic Trigger Type	Input-1 >	Logic Trigger Type By Tri	gger Function	
			Trigger Fune(IN)	None	)
	Trigger Func(OUT)	None >	Trigger Fune(OUT)	None	)
User ACUM	Delay ON Timer	0.0a)	Delay ON Timer	0.0s	>
	Logic Output On Timer	0.0s)	Logic Output On Timer	0.0s	2
History Data					
Data					_



#### RS485+RS232

• For connecting PC,PLC,Printer,Label Printer, Remote Display,Code Printer,or other external devices,for reading and setup remotely;

#### USB

• For importing and exporting recipes,works,I/O function communication and other parameters, upgrading system software,customizing boot screen etc.

#### 12 Input/16 Output

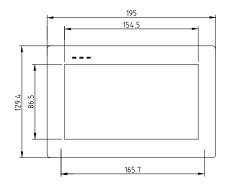
 For staring, stopping, feeding, unloading, clamping/loosening bags,etc;

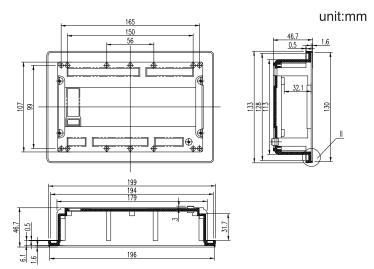
#### Modbus TCP

• For connecting PC, PLC, Printers, etc., for reading remotely.

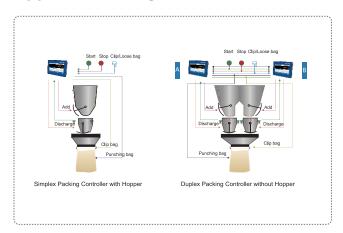
## **Specification**

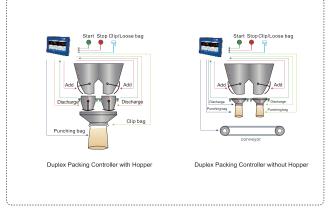
	Model	GM9907-L2/LD
	Power Supply	DC24V
General	Operating Temperature	-10~40 °C
Specifications	Maximum Humidity	90%R.H without dew
	Test Standard	Class III 6000e,1µV/d
	Power Consume	About 15W
	A/D converter type	24 bit Sigma-Delta
	A/D Conversion Rate	120/240/480/960 times /per second
	Non-Linear	0.01%F.S
	Gain Drifting	10PPM/C
Measurement	Minimum Sensitivity	0.02μV/d
parameters	Analog Input Range	0.02~15mV
	Display Accuracy	1/100,000
	Power Source for Load Cell	DC5V 125mA(MAX)
	Input Resistance	10ΜΩ
	Zero Point Adjustment Range	0.002~15mV (load cell 3mV/V )
	12 Input 16 Output, I/O Selectable	
I/O Interfaces and	12 Input, Active-low Start, Emergency stop, Stop, Zeroing, Cl Manual coarse flow, Change recipe, Emp	ear alarm, Clear total ACUM, Bag Lock/Unlock, Manual discharge, Manual fine flow, oty material
Communications	16 Output, Single drive current 500mA Run, Stopped, Coarse flow, Medium flow Alarm, Batch complete, Over/Under	r, Fine flow, Bag lock, Result waiting, Ready, Discharge, -NZ-, Pat bag, FILL, EMPT,





## **Application Diagram**





GM9907-L2 GM9907-LD

# GM9907-L4

Reduce weight method packing controller



GM9907-L4 is designed for Loss-in-weight bagging machine. It can be widely used in rice, grains, feeds, chemical industries etc.



#### **Version Features**



 Memory card build in, 7-inch touch screen for displaying clearly and operating easily;



• It can store 20 groups of recipes, 9 groups of users accumulation data;

	a.		0.9	0.98 kg 2021/01/0		06 14:00 min	
	Total ACUM		5 pos		0,01 kg		
	Recipe ID	ACUM pcs		A	CUM Weight kg		
	01	20		- 1	0000000, 00		
User ACUM	02	5		5	0000000,00	9-16	
	03	40			0.00		
History	04	0			0,05	17-20	
Data	05	0			0, 00	Clear Al	
Print	06	50		5	0000000.05	Recipe ACL	
S	Statistic	X F∎rg Test	A. Recipe	Peripherals	(I) E-Stop	(D) Start	



• Data backup and recovery function can save the optimal parameters and improve the working efficiency;

		0.2	20 t 2021/01	
	Al	Reset	Communication	Reset
Version	AI(No Calibration)	Reset	Basic Para.	Rese
	Recipe	Reset	Advanced Para.	Rese
	Calibration	Reset	I/O Function	Rese
Others	Parameter Backup	Backuo	Backup Date: 2021/01/08	13:00:00
	Recovery From Backup	Reset	Delete Backup	Delet



• Starting patting mode when filling material to shape bags by setting relevant parameter;

	Russ	5	50. 00 k	pr .	06 14:00 lmin
01 02	Overtime Monitor		Patti	ng Para.	
0.00	Supply Overtime	5 s >	Patting Mode	No-Patting >	Filing Values
0,00 0,0	Patting Mode			×	Filing
0.00 0.0					Timer
07 C8 0.00 0.0	No-Patting		When Fill	ng	OvenUnder FreeFall Correction
09 10 0,00 9,00					Patting Para Overtime Monitor



#### RS485+RS232

• For connecting PC,PLC,Printer,Label Printer, Remote Display,Code Printer,or other external devices,for reading and setup remotely;

#### USB

 For importing and exporting recipes,works,I/O function communication and other parameters, upgrading system software,customizing boot screen,etc;

#### 12 Input / 16 Output

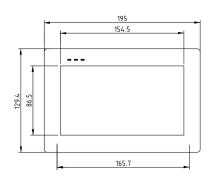
• For staring, stopping, feeding, unloading, clamping/loosening bags,etc;

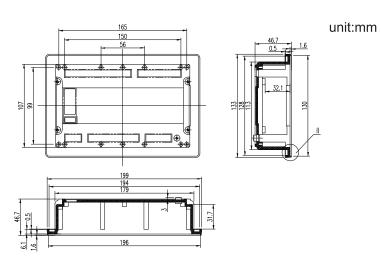
#### Modbus TCP

• For connecting PC, PLC, Printers, etc., for reading remotely.

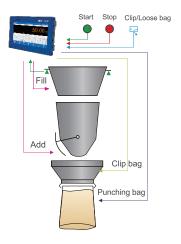
## **Specification**

Model	GM9907-L4
Power Supply	DC24V
Operating Temperature	-10~40°C
Maximum Humidity	90%R.H without dew
Test Standard	Class III 6000e,1µV/d
Power Consume	About 15W
A/D converter type	24 bit Sigma-Delta
A/D Conversion Rate	120/240/480/960 times /per second
Non-Linear	0.01%F.S
Gain Drifting	10PPM/C
Minimum Sensitivity	0.02μV/d
Analog Input Range	0.02~15mV
Display Accuracy	1/100,000
Power Source for Load Cell	DC5V 125mA(MAX)
Input Resistance	10ΜΩ
Zero Point Adjustment Range	0.002~15mV (load cell 3mV/V )
2 Input 16 Output, I/O Selectable	
12 Input, Active-low Start, Emergency stop, Stop, Zeroing, Cle coarse flow, Clear total ACUM, etc.	ear alarm, Change recipe, Bag Lock/Unlock, Manual discharge, Manual fine flow, Man
	Power Supply Operating Temperature Maximum Humidity Test Standard Power Consume A/D converter type A/D Conversion Rate Non-Linear Gain Drifting Minimum Sensitivity Analog Input Range Display Accuracy Power Source for Load Cell Input Resistance Zero Point Adjustment Range 2 Input 16 Output, I/O Selectable 12 Input, Active-low Start, Emergency stop, Stop, Zeroing, Cle





## **Application Diagram**



Reduce weight method packing

# GM9907-L5

Bulk Scale Controller (Continuous Weighing)



GM9907-L5 is designed for bulk scale to solve the problem of batch weight and automatic totalizing of incoming and outgoing material. It can be used widely used in chemical, grain, feeds, construction and harbor logistics industies etc.

#### **Version Features**

#### User-Friendly · Better Experience

- Memory card build in, 7-inch touch screen for displaying clearly and operating easily;
- Flow rate function can discharge material automatically and alarm when flow rate is low,which is more intelligent;





• Two scale mode: Stock-In or Stock-Out; Data information is more convenient to operate;

( Back				8 kg	Admi	n
Recipe	Scale Mode		Stock-In )	Permanent ACUM		5 pc
ACUM	Stock-Out Total		0.00 kg >			0, 00 k
	Scale Mode				×	
ACUM ACUM						
Scale >	ı.	Stockeln		Stock-Out		
						-
History						



• Two packing mode: Motor or Pneumatic; Add/Discharge feed is more convenient;

	Rum	50.00 kg	
	Hing		DISC
FIII Gate Driver	Motor Drived >	DISC Gate Driver	Normal Motor(One Pos.)
Filler Motor Clg ID	0 >	DISC Gate Pos.Signal	ON: If Closed
Co-FII Gate Open Time	0.8s >	DISC Gate Pos.Detect w	shen Filling
Fi-Fil Gate Open Time	0, 2s >	DISC Gate Close OverT	ime 3.0s
Filer Gate Close OverT	ime 4.0s >	DISC Gate Open Timer	1, 0s
Filler Gate Pos. Signal	ON:If Closed		



#### RS485+RS232

• For connecting PC,PLC,Printer,Label Printer, Remote Display,Code Printer,or other external devices,for reading and setup remotely;

#### USB

 For importing and exporting recipes,works,I/O function communication and other parameters, upgrading system software,customizing boot screen.etc:

#### 12 Input / 16 Output

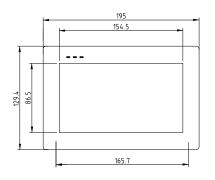
• For staring, stopping, feeding, unloading, clamping/loosening bags,etc;

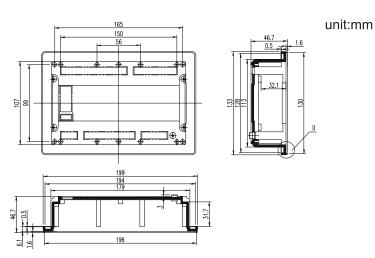
#### Modbus TCP

• For connecting PC, PLC, Printers, etc., for reading remotely.

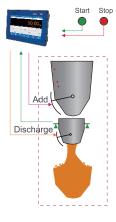
## **Specification**

	Model	GM9907-L5	
	Power Supply	DC24V	
General	Operating Temperature	-10~40 °C	
Specifications	Maximum Humidity	90%R.H without dew	
•	Test Standard	Class III 6000e,1µV/d	
	Power Consume	About 15W	
	A/D converter type	24 bit Sigma-Delta	
	A/D Conversion Rate	120/240/480/960 times /per second	
	Non-Linear	0.01%F.S	
	Gain Drifting	10PPM/°C	
Measurement	Minimum Sensitivity	0.02µV/d	
parameters	Analog Input Range	0.02~15mV	
	Display Accuracy	1/100,000	
	Power Source for Load Cell	DC5V 125mA(MAX)	
	Input Resistance	10ΜΩ	
	Zero Point Adjustment Range	0.002~15mV (load cell 3mV/V )	
	12 Input 16 Output, I/O Selectable		
I/O Interfaces and	12 Input, Active-low Start, Emergency stop, Stop, Zeroin	ng, Clear alarm, Fill permission, Clogged, Manual fine flow, etc.	
Communications	16 Output, Single drive current 500r Run, Stopped, Clogged, Coarse flow, Fi	mA ine flow, Result waiting, Over/under, Alarm, Stock-out Done, Last feed, DISC, -NZ-,	





## **Application Diagram**



Continuous Weighing

# GM9907-L6/L6D

## Liquid Filling Controller



GM9907-L6/L6D is designed for single/double nozzle liquid filling applications. It can widely used in food&beverage, chemical, coating industries and so on.

#### **Version Features**

User-Friendly · Better Experience

 Memory card build in, 7-inch touch screen for displaying clearly and operating easily;



• It can store 20 pieces of formulation for different materials filling.

< Recipe Paramete	Run	50.0	00 kg 2021/01/06 14:00 Reserved )
	Recipe Num		( 1 )
	Target	50.00kg >	Recipe Name
Process	A SP1 Value	0.00kg >	
Parameter	A SP2 Value	0.00kg >	
	Start Near Zero Value	0.00kg >	
	Tare Value	0.00kg >	COMP Inhibit Timer(SP1) 0.6 s
	Tare Error Value	0.00kg >	COMP InbibitTimer(SP2) 0.8 s
Home	iii	A. Recipe	Pause E-Stop Start

 Automatic 2-filling speed, feed control function, easy to connect with front-end

Process Parameter	Run	50.	2021/01/06 14:00 Reserved ()
Start	Filling Start Pre-Delay	0.18 >	Intellengent Filling
Condition	Cowenbibit Timer(SP1)	0.6s >	Auto Filling Speed 0
Pipe Drop Process	Cownshibit	0.8s >	Positive Error Control
Filing >	Result Checking Timer	0.58 >	Filling Filter Level 0
Process	Filling Signal Combination	Filling	Filling Threshold Value 0.00 kg
Checking	A SP1 Output Output	ut-16 )	Leaking Detect
Bucket Move Proness	A SP2 Output Output	ut-16 >	SP1 Flowrate Low Limit 0.00 kg/s
			Weight Sudden Drop Alarm 1.23 kg

• L6/L6D single or double nozzle liquid
filling applications can be chosen. UI
changed accordingly.

Use Recipe:	01	50.0	10kg			4(pcs)			12345kg
			Gross	В					Gross
	50	.00	kg	3		5	0.	00	kg
				8104					
Zeroing		Clear Alarm							Zeroing
Set Batch:	0>	Complete Batch:	0>	1		0.00	4	. 0	.00
Total ACUM		0.0	ocs	2	0	0.00	5	• 0	.00
		0.00		3	0	0.00	6	. 0	.00
S Menu	Statistic	Filing Test	A Ro			(II)		Shop	Start

# Communication

#### RS485+RS232

• For connecting PC,PLC,Printer,Label Printer, Remote Display,Code Printer,or other external devices,for reading and setup remotely;

#### USB

 For importing and exporting recipes,works,I/O function communication and other parameters, upgrading system software,customizing boot screen,etc;

#### 12 Input / 16 Output

• I/O programmble.

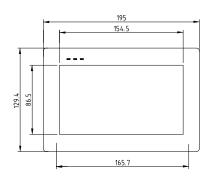
equipment.

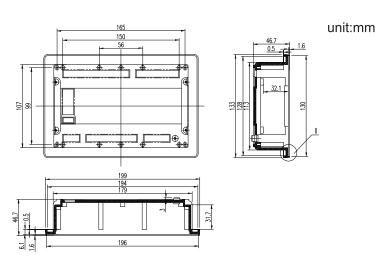
#### Modbus TCP

• For connecting PC, PLC, Printers, etc., for reading remotely.

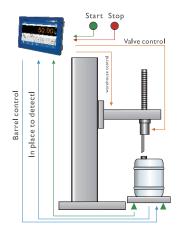
## **Specification**

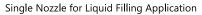
	Model	GM9907-L6/L6D		
	Power Supply	DC24V		
General	Operating Temperature	-10~40 °C		
Specifications	Maximum Humidity	90%R.H without dew		
•	Test Standard	Class III 6000e,1µV/d		
	Power Consume	About 15W		
	A/D converter type	24 bit Sigma-Delta		
	A/D Conversion Rate	120/240/480/960 times /per second		
	Non-Linear	0.01%F.S		
	Gain Drifting	10PPM/°C		
Measurement	Minimum Sensitivity	0.02μV/d		
parameters	Analog Input Range	0.02~15mV		
	Display Accuracy	1/100,000		
	Power Source for Load Cell	DC5V 125mA(MAX)		
	Input Resistance	10ΜΩ		
	Zero Point Adjustment Range	0.002~15mV (load cell 3mV/V)		
	12 Input, Active-low Start, Emergency stop, Zeroing, Clear alarm, Switch formula, Dropping/lifting nozzle, feeding, etc			
I/O Interfaces and Communications	16 Output, single drive current 50 Run, Stop, Fast feeding, Slow feedi Batching finish, etc.	00mA ng, Constant value, Over/Under weight, Alarm, Move barrel, dropping no		

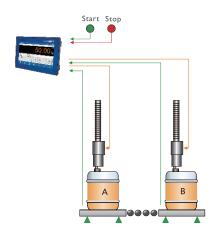




## **Application Diagram**







Double Nozzle for Liquid Filling Application



GM9907-LB is designed for batching scale that can sort feeding orders of a variety of materials. It can be widely used in concrete mixing, bituminous mixing, metallurgy, chemical, feeds industries etc.

#### **Version Features**

#### User-Friendly · Better Experience

- Memory card build in, Dynamic batching process can be graphically displayed for better understanding and monitoring;.
- Support the batching of 12 kinds of materials. It can be customized according to the batching process sequence, which is flexible to use;





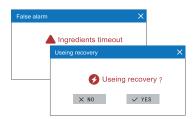
• The working process is clear. Feeding value and time of the material can be set, and real-time feeding dynamic can be displayed;

Recipe1 Supplement2		Filling PreDelay Timer	. 5s 1
Target	>	COMP.Inhibit Timer(Co-F)	. 5s )
Co-Fill Ramin	>	COMP.Inhibit Timer(Me-F)	. 5s )
Me-Fill Ramin	>	COMP.Inhibit Timer(Fi-F)	. 5s )
Free Fall	>	Stir Control	. 5s )
Over Limit Value	>		
Under Limit Value	>		
Fill Pause Control			





• User-friendly design: Save function when power down and monitoring alarm function;





#### RS485+RS232

• For connecting PC,PLC,Printer,Label Printer, Romote Display,Code Printer,or other external devices,for reading and setup remotely;

#### USB

 For importing and exporting recipes,works,I/O function communication and other parameters, upgrading system software,customizing boot screen,etc;

#### 12 Input/16 Output

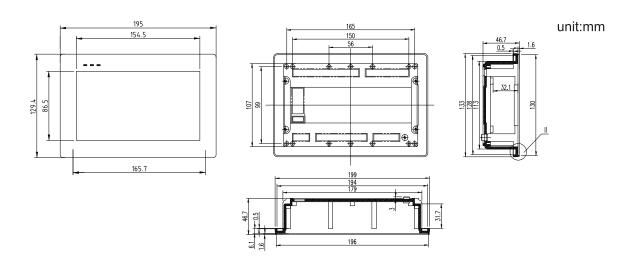
• For staring, stopping, feeding, unloading, clamping/loosening bags,etc;

#### Modbus TCP

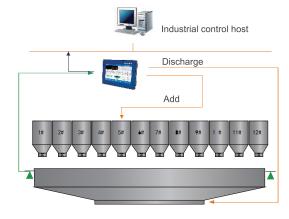
• For connecting PC, PLC, Printers, etc., for reading remotely.

## **Specification**

	Model	GM9907-LB			
	Power Supply	DC24V			
General	Operating Temperature	-10~40 °C			
Specifications	Maximum Humidity	90%R.H without dew			
Ороблюция	Test Standard	Class III 6000e,1µV/d			
	Power Consume	About 15W			
	A/D converter type	24 bit Sigma-Delta			
	A/D Conversion Rate	120/240/480/960 times /per second			
	Non-Linear	0.01%F.S			
	Gain Drifting	10PPM/C			
Measurement	Minimum Sensitivity	0.02μV/d			
parameters	Analog Input Range	0.02~15mV			
	Display Accuracy	1/100,000			
	Power Source for Load Cell	DC5V 125mA(MAX)			
	Input Resistance	10ΜΩ			
	Zero Point Adjustment Range	0.002~15mV (load cell 3mV/V )			
	12 Input 16 Output, I/O Selectable				
	12 Input, Active-low				
I/O Interfaces and	Start, Emergency stop, Stop, Pause, ZERO, Clear alarm, Change recipe, M-DISC permission, TARE, Clear tare,				
Communications	Manual stir, etc.				
	16 Output, Single drive current 500mA Run, Stopped, Coarse flow, Medium flow, Fine flow, Result waiting, Over/under, DISC, -NZ-, Alarm, Stir, etc.				



## **Application Diagram**



Batching, up to 12 materials



# Highly Visible Remote Display



Remote display is a outdoor truck scale weight display of highest quality with full stainless steel body with IP65 standard, which is the ultra light LED display with wide viewing angle of 150 degrees and crystal clear under sunlight.



#### Remote Display GM8892



High Clarity LED Remote Display for Truck Scales



#### Remote Display GM8895



High Clarity LED Remote Display for Truck Scales



## Εġ

## Communication

Our remote display offer unmatched flexibility with smart data recognition system compatible with indicators for truck scales, such as AD-4321, AD-4323, TOLEDO, Fairbanks, R2500, UMC600, GSE50 serial, Rinstrum, WI-125, WI-127, Df1500 etc.







## **Standard Specification**

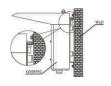
Model	GM8892	GM8895
INDICATOR POWER		
Power Supply	90V ~ 260V AC 50Hz(or 60Hz)±2%	90V ~ 260V AC 50Hz(or 60Hz)±2%
Power Consume	20W	40W
DISPLAY		
Display	6 digits, 7 segments, Ultra bright LED	6 digits, 7 segments, Ultra bright LED
Digits Size	2.5"	5.0"
LED Indicators	3 LED, Gross, Net, Motion	3 LED, Gross, Net, Motion
Visible angle	10 degree to 170 degree	10 degree to 170 degree
ENVIORNMENTAL		
Operating Temperature	-10°C to 40°C	-10°C to 40°C
Storage Temperature	-25℃ to 70℃	-25°C to 70°C
Humidity	90% R.H without dew	90% R.H without dew
IP Level	IP65	IP65
MECHANICAL DATA		
Dimensions with sun shelter	582×228×200 (L×W×H)	905×295×258 (L×W×H)
Dimensions without sun shelter	578×226×76 (L×W×H)	900×280×107 (L×W×H)
Weight	Approx. 8kgs	Approx. 16kgs
Certification	CE	CE
Enclosure	stainless steel	stainless steel
COMMUNICATION		
Interface	RS485/RS232; Current Circle; Wireless(Op	otional)
INIDICATOR SUPPORTED		

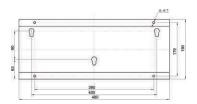
AD-4321, AD-4323, TOLEDO&Fairbanks, R2500, UMC600, GSE50 serial, Rinstrum, WI-125, WI-127, DF1500

#### **Dimensions**Unit:mm

#### GM8892



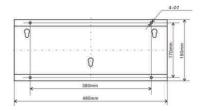




#### GM8895









GM-JX-M is a four-wire load cell junction box. In addition to regulating the wiring function, it can compensate and correct the four angle deviation by adjusting the resistance value of the precision potentiometer. In some special weighing occasions when the angle deviation is so large to affect the measurement results, this junction box can effectively solve the user's problems.

#### **OPERATING INSTRUCTION**





#### Internal terminal identification

Four-wire Connection Method .

Internal wire terminals are identified as follows:

- "+E"-- EXCITATION +
- "+S"-- SIGNAL +
- "GND"-- SHIELD

- "-E" -- EXCITATION -
- "-S "-- SIGNAL -





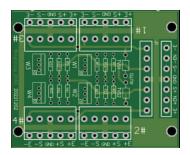
#### **Adjustment Method**

Precision potentiometer W1~W4 can fine tune the output signal of each load cell, which is used to adjust the four angle deviation of the system.

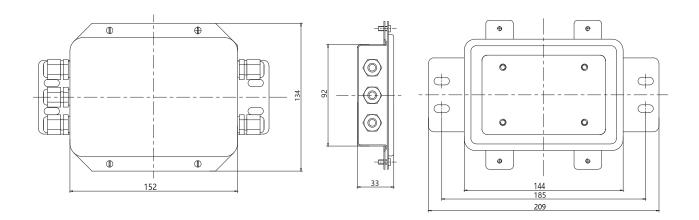


#### Four-Angle Deviation Adjustment Method

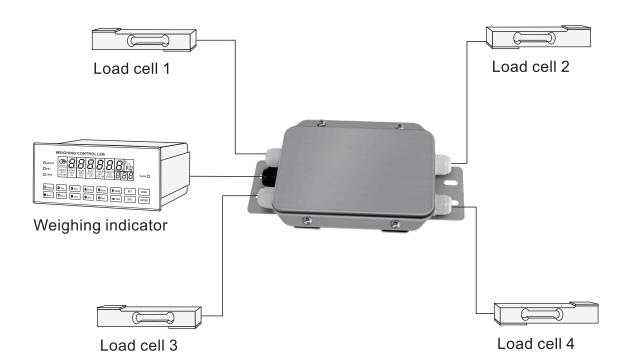
- Step 1: Before adjustment, the four-channel potentiometer is gently rotated to the middle position;
- Step 2: Fine-tune the channel with large deviation to the average value (close the other three channels when observing one channel);
- Step 3: Repeat step 2 until the millivolt signals of four-channel are similar.



## **Dimensions** Unit:mm



## **Connection Diagram**





# Making weighing more accessible.



## Global Clients 2000+

























## **Product Cases**



#### **Multi-applications**

GM products are widely used in lithium battery, concrete batching, foods, feeds, chemicals, pharmaceutical industries and etc.

















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