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## Weighing Instrument Selection Manual



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# ENTERPRISE PROFILE

General Measure Technology Co., Ltd was established in 1993, Shenzhen, China. GM focuses on the development of industrial weighing instruments, load cells, checkweighers and granule bagging scales. The products are developed and manufactured in strict accordance with international standards. The products are CE/CPA/OIML approved.

In 2017, General Measure established subsidiaries and built a 10000 m<sup>2</sup> production center in Zhuzhou, Hunan Province. In 2021, GM integrated load cells into its product line to deliver greater value to customers. At present, GM has 15 exclusive partners worldwide, and its products are sold in more than 50 countries and regions.

As one of China's earliest industrial weighing companies, GM has an R&D team of over 60 engineers. For 30 years, GM have been committed to improving the automatic process of industrial weighing and the precision of weighing control.



**30<sup>+</sup>**  
years  
Industry Experience



**50<sup>+</sup>**  
Countries Served



**200<sup>+</sup>**  
R&D Patents



**2000<sup>+</sup>**  
Applications



# CUSTOMER CASE

## Multi-applications

GM products are widely used in lithium battery, chemical, building materials, foods, feeds, pharmaceutical industries and etc.



Chemical industry



Grain industry



Feed industry



Building materials industry



Logistics industry



Chemical industry



Fertilizer industry



Lithium battery industry



Chemical industry

# Making weighing more accessible.



**2000+** Global Clients

**ZOOMLION**

**prompt**  
We Promise. We Deliver.

**CONCH**

**DIGITAL  
SCALE**

**CATL**

**muyuan**牧原

**PESAR**  
PRECISION

**altus**

**PANDtec**

**wilmar**

**Amul**

**BCI  
INGENIERIA**

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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 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 load cell sensitivity value );
- Printer function ;
- Self-testing for I/O and Communication port ;
- Self-editable boot screen.



## HARDWARE HIGHLIGHTS

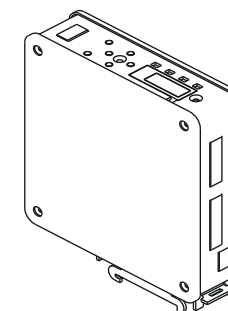
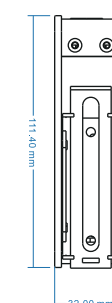
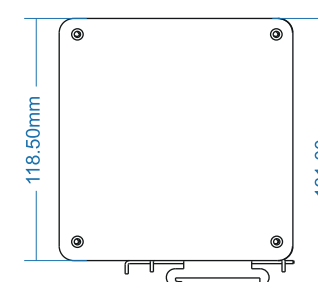
### Simulation/Digital Version

- 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 ;
- Option 3** Modbus TCP or Ethernet/IP or Profinet or Profibus DP or CCLink IE or Ethercat ;
- (Hardware Option1,2,3 can be selected at the same time);
- Bluetooth Communication.



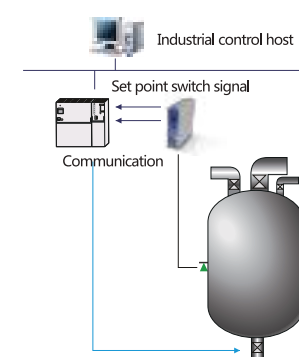
## Specifications

|                        | Model                         | GMT-X1                                                                                                           | GMT-X1 Digital Version                               |
|------------------------|-------------------------------|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| General Specifications | Power Supply                  | DC 24V(12~30VDC)                                                                                                 |                                                      |
|                        | Working temperature           | -10°C~40°C                                                                                                       |                                                      |
|                        | Maximum humidity              | 90% RH.without dew                                                                                               |                                                      |
|                        | Approval standards            | OIML R76, ClassIII 6000 e, 1 μ V/e                                                                               |                                                      |
|                        | Power consumption             | About 5W                                                                                                         |                                                      |
|                        |                               |                                                                                                                  |                                                      |
| Measurement Parameters | A/D performance               | 24 bit Delta-Sigma                                                                                               | N/A                                                  |
|                        | A/D conversion speed          | 50~960 times/sec                                                                                                 | N/A                                                  |
|                        | Non-linearity                 | 0.01%F.S                                                                                                         | N/A                                                  |
|                        | Gain drift                    | 10PPM/°C                                                                                                         | N/A                                                  |
|                        | 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 sensitivity in 1mV/V、 2mV/V、 3mV/V | 1 standard RS485 digitalloadcell interface           |
|                        | Sensor power supply           | DC 5V 200mA(Max)                                                                                                 | DC12V 250mA, up to connect with 8 digital load cells |

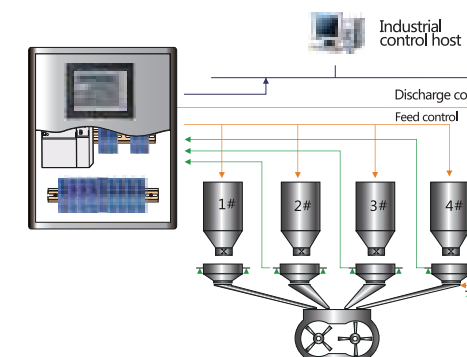


\*Specification and dimension may be upgraded, please consult sales manager for the latest info.

## Application



Set point weighing application



Multi-material batching application



# GMT-X4

## Four-Channel Weighing Transmitter



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 HIGHLIGHTS

- Stainless steel housing with compact design (62 X 134 X 128mm);
- Different configuration choices, a variety of combination;

#### Standard

- ① 4-channel of 6-wire load cell interfaces;
- ② RS485 & RS232 ;
- ③ 4 Input 8 Output I/O.

#### Option 1

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

#### Option 2

4-channel analog output;

#### Option 3

CAN communication;

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



### SOFTWARE HIGHLIGHTS

- 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.

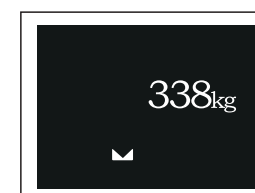
# GMT-X4

## Weighing Transmitter (Intelligent Junction box)

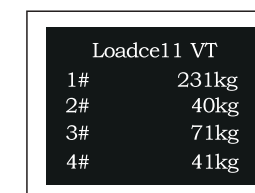


GMT-X4 weighing indicator with intelligent junction box built in can easily monitor the defaulted load cell.

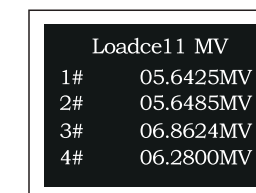
### FEATURES



- Main display
- Up to 6 digits



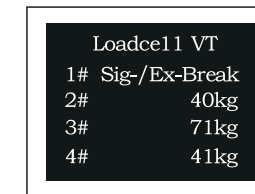
- Weight display
- Individual load cells



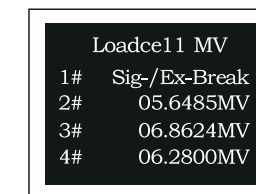
- Millivolt display
- Individual load cells



- Main display
- Error notice
- Load cell failure



- Weight display
- Error notice
- Defaulted load cell



- Millivolt display
- Error notice
- Defaulted load cell

### HARDWARE HIGHLIGHTS

- Stainless steel housing with compact design(62X134X128mm);

#### Standard

- ① 4-channel of 6-wire load cell interfaces;
- ② RS485 & RS232 ;
- ③ 4 Input 8 Output I/O;

#### Option 1

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

#### Option 2

1-channel analog output;

#### Option 3

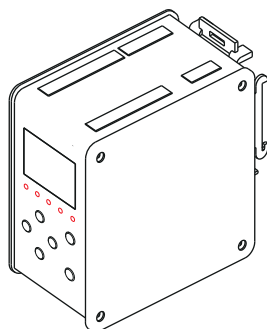
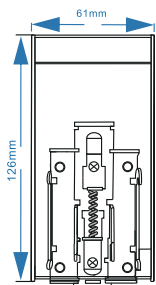
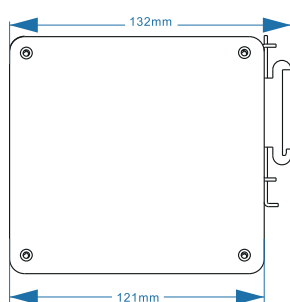
CAN communication;

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



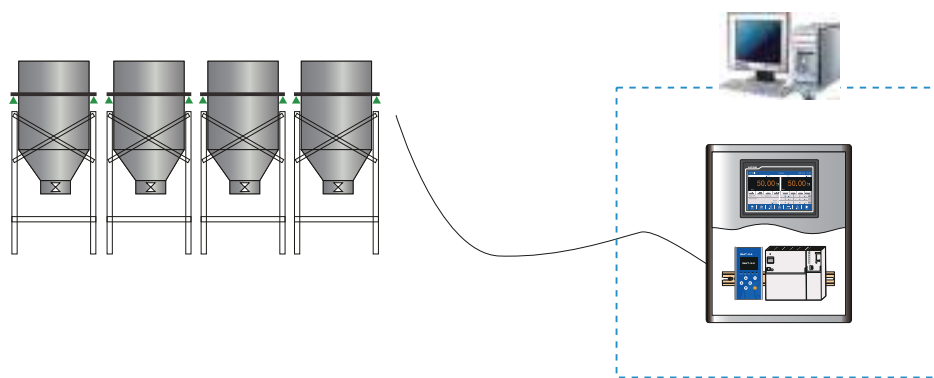
## Specifications

|                        |                               |                                                                                                                          |
|------------------------|-------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| General Specifications | Model                         | GMT-X4                                                                                                                   |
|                        | Power                         | DC 24V $\pm$ 5%                                                                                                          |
|                        | Size                          | 62mm $\times$ 134mm $\times$ 128mm                                                                                       |
|                        | Weight                        | Approx. 880g                                                                                                             |
|                        | Operating Environment         | -10 $\sim$ 40°C; 90%R.H,No Condensation                                                                                  |
|                        | Storing Environment           | -40 $\sim$ 60°C; 90%R.H,No Condensation                                                                                  |
|                        | Power Dissipation             | 10W                                                                                                                      |
| Measurement Parameters | Weighing Platform             | 5V, 200mA(MAX)/channel                                                                                                   |
|                        | Excitation Voltage            |                                                                                                                          |
|                        | Weighing Platform Requirement | 4 simulation scale interface, can connect up to 40 load cell with 350 $\Omega$ , support sensitivity 1mV/V, 2mV/V, 3mV/V |
|                        | 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                                                                                                              |



\*Specification and dimension may be upgraded, please consult sales manager for the latest info.

## Application



Multi-material batching application

# GMT-H4

## Four-channel Weighing Transmitter



GMT-H4 is a four-channel weighing indicator, designed for the weighing system with multiple load cells, specially for large weighing range. It is stable and easy to operate, which can be widely used in various weighing applications: silo weighing, batching, liquid filling, etc.



## HARDWARE HIGHLIGHTS



- Wall mount or panel mount installation available, stainless steel case;
- IP65 for wall mount case and front panel;
- Four independent load cell input channels;
- Two-screen display: LED and OLED;

### Configuration interface:

**Standard:** 1 RS485 and 1 RS232;

**Optional:** ① 4 inputs 6 outputs I/O; ② Modbus TCP/IP or Profinet or Ethernet IP or CC-Link IE;  
③ The interface is available in either stainless steel or nylon.  
(Option ①②③can be selected at the same time.)



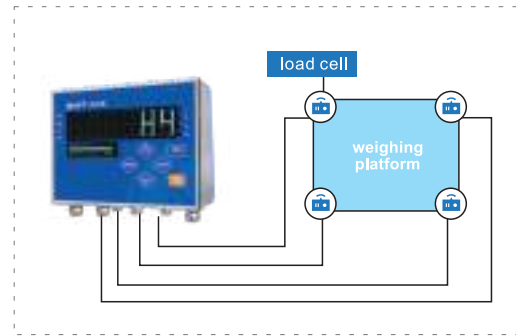
## SOFTWARE HIGHLIGHTS

- Two-screen with Chinese or English display, easy to operate;
- Four-channel combination mode for digital weighing system;
- Each load cell's data can be checked in detail;
- Intelligent load cell installation and automatic angular difference adjustment;
- Calibration without weight function by higher accurate load cell parameters;
- Support special weighing system, each channel can be involved in different ranges and different sensitivity of the load cell;
- Preset point output



## Usage:

- Multiple load cells can connect to the GMT-H4 directly without junction box;
- Bright LED main screen displays the total weight allowing to see under sunshine or long distance;
- OLED screen can check each load cell's weighing data in detail.



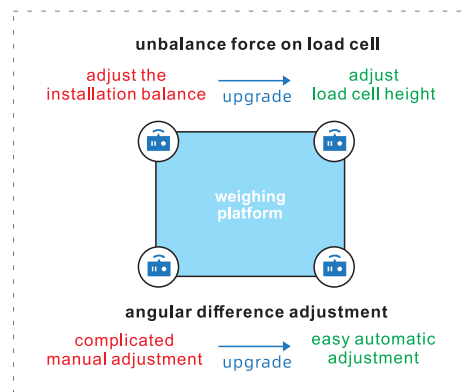
#1 Weight: 130kg  
#2 Weight: 120kg  
#3 Weight: 120kg  
#4 Weight: 120kg

#1 VOLT: 0.4845mV <15.0000mV  
#2 VOLT: 0.4836mV <15.0000mV  
#3 VOLT: 0.4836mV <15.0000mV  
#4 VOLT: 0.4836mV <15.0000mV

#1 PRES: 640kg < 900000kg  
#2 PRES: 640kg < 900000kg  
#3 PRES: 640kg < 900000kg  
#4 PRES: 640kg < 900000kg

## Load Cell Installation:

- GMT-H4 can remind the force data during load cell installation. Adjust the height of load cell according to the force of each load cell;
- Automatic adjustment of the angular difference, to avoid the repeated adjustment process.



2821 Angle Correct Samp  
press 1 corner, Enter

<Angle Correct Coef>  
2821 CH1 Correct Coef: 1.00000  
2822 Ch2 Correct Coef: 1.00000  
2823 Ch3 Correct Coef: 1.00000

#1: 0.4839mV #2: 0.4831mV  
#3: 0.4831mV #4: 0.4832mV  
Install OK

## Early Warning Function:

- GMT-H4 has detection and early warning functions which is helpful for users to intuitively understand the working state of the weighing system. It can detect and remind the below problems:

### Unbalance load

GMT-H4 can detect the load at different positions on the weighing platform to avoid the weighing error caused by partial load.

### Installation base subsidence

GMT-H4 can identify changes or settlement of the foundation to prevent inaccurate weighing due to unstable foundation.

### Load cell damage

GMT-H4 can real time monitor the load cell status and identify the load cell damage to ensure the weighing accuracy.

### Load cell wiring failure

GMT-H4 can real time monitor the load cell wiring status for identifying and reminding the fault immediately.

### Emergency use

When the load cell damaged, GMT-H4 can switch the load cell to emergency use mode to make sure the production runs well.

Scale body tilt  
any key clear alarm

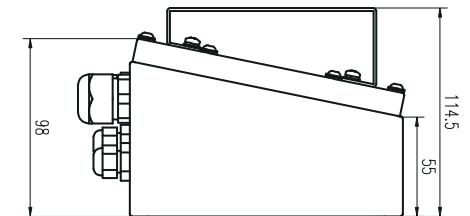
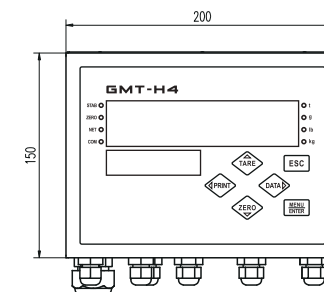
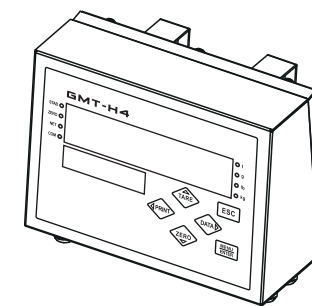
#1 Weight: 19.00kg  
#2 Weight: 19.00kg  
#3 Weight: 19.00kg  
#4 Weight: Loadcell Tilt

#1 Weight: 19.00kg  
#2 Weight: 19.00kg  
#3 Weight: 19.00kg  
#4 Weight: LC broken

#1 Weight: 3.50kg  
#2 Weight: 3.50kg  
#3 Weight: 3.50kg  
#4 Weight: No LC or EX Error

## Specifications

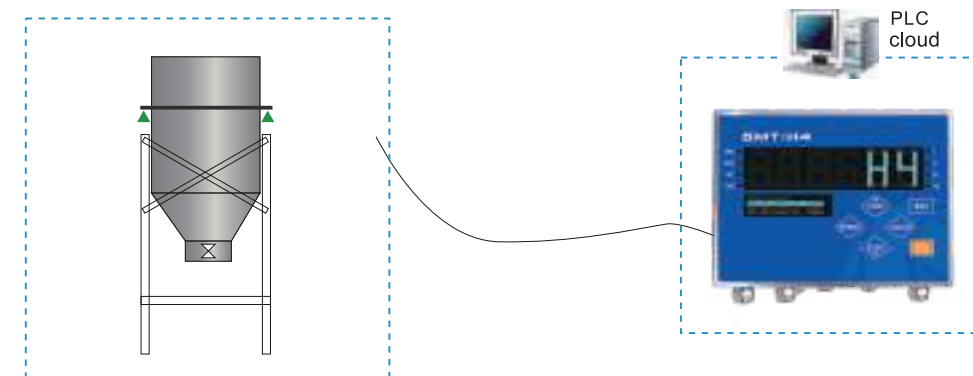
|                        |                          |                                                  |
|------------------------|--------------------------|--------------------------------------------------|
| General Specifications | Model                    | GMT-H4                                           |
|                        | Power                    | DC 24V ± 10%                                     |
|                        | Certificated Environment | -10 ~ 40°C; 90%R.H no condensation               |
|                        | Operating Environment    | -40 ~ 70°C; 90%R.H no condensation               |
|                        | Power Consumption        | Approx. 20W                                      |
|                        | Calibration standard     | ClassIII 6000e, 1μV/e                            |
| Measurement Parameters | Size                     | 200mm x 150mm x 120mm                            |
|                        | Load Cell Channel        | Four independent analog load cell input channels |
|                        | Nonlinearity             | 0.01%F.S                                         |
|                        | Gain Drift               | 10 PPM/°C                                        |
|                        | Sensitivity              | 0.01μV/d                                         |
|                        | Load Cell Power          | DC5V, 200mA(Max)                                 |
|                        | Maximum Display Accuracy | 1/100000                                         |
|                        | A/D Sampling Rate        | 50/100/200/400/800Hz                             |



Unit: mm

\*Specification and dimension may be upgraded, please consult sales manager for the latest info.

## Application



Schematic diagram of weighing data transmission

# GMT-P1

## Weighing Transmitter

(Digital Version Available)



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.



## FEATURES

- 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

- ① Single network port, support Modbus;
  - ② Dual network ports, support ModbusTCP (No serial ports);
  - ③ Profinet or Ethernet IP or EtherCAT or CCLink IE (No serial ports);
  - ④ Analog output.
- Option①②③④ can only be selected one at a time □

### 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);

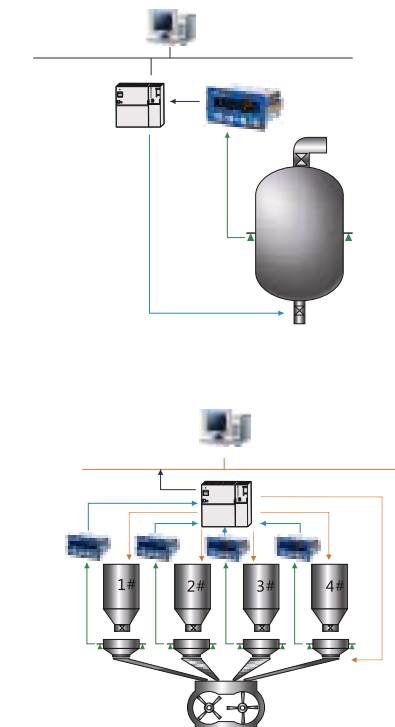
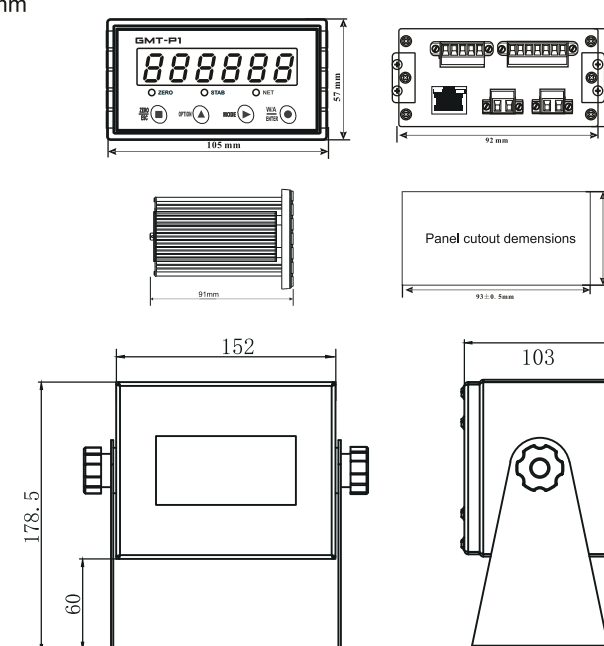


## Specifications

| General Specifications | Model                 | GMT-P1                                                      | GMT-P1 Digital Version                           |
|------------------------|-----------------------|-------------------------------------------------------------|--------------------------------------------------|
|                        | Power                 | DC 24V±5%                                                   |                                                  |
|                        | Working temperature   | -10°C~40°C                                                  |                                                  |
|                        | Maximum humidity      | 90% RH.without dew                                          |                                                  |
|                        | Approval standards    | OIML R76, ClassIII 6000 e, 1 μ V/e                          |                                                  |
|                        | Power consumption     | About 10W                                                   |                                                  |
| Measurement Parameters | A/D performance       | 24 bit Delta-Sigma                                          | N/A                                              |
|                        | A/D conversion speed  | 30/60/120/240/480/960 times/sec                             | N/A                                              |
|                        | Non-linearity         | 0.01%F.S                                                    | N/A                                              |
|                        | Gain drift            | 10PPM/°C                                                    | N/A                                              |
|                        | Input sensitivity     | 0.01μV/d                                                    | N/A                                              |
|                        | 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

Unit:mm



\*Specification and dimension may be upgraded, please consult sales manager for the latest info.



# G-2301P

## Panel-Mount Weighing Transmitter



The G-2301P is a brand new panel-mount transmitter that has both weighing and force-measurement modes. It features a dual-row digital display that provides a clear and intuitive indication of instrument status. It is widely applied in chemical industry, fertilizer and feeds industry, electronics production, and other industrial fields.



## HARDWARE HIGHLIGHT



### Standard:

- ① Load Cell: 6-wire interface;
- ② Serial Port: 1 RS485 or 1 RS232;
- ③ I/O: 4 inputs 6 outputs (transistor output) or 4 inputs 5 outputs (relay output);
- ④ USB: 1 interface

### Optional:

- ① Analog: 16-bit analog output (current or voltage);
  - ② Network: Modbus TCP/IP or Profinet.
- (Option ①② can be selected at the same time.)



## FEATURES

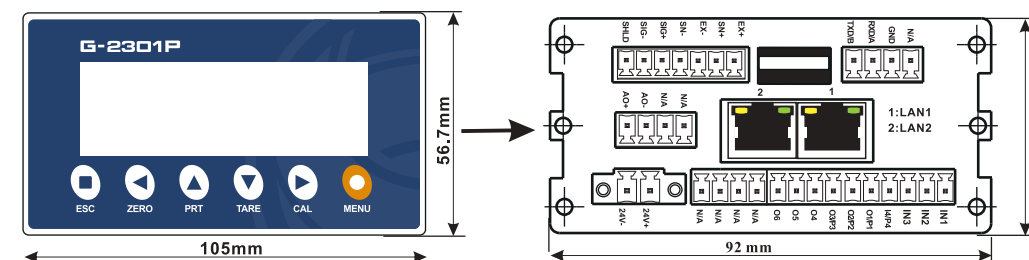
- Weighing or force-measurement modes selectable; (must be specified when ordering)
- Shortcut key for quick printing;
- Tare functions, supporting preset tare and auto tare;
- Weight correction function with automatic coefficient calculation;
- Parameter backup and migration—no calibration needed when replacing a device;
- Key lock function to prevent misoperation;
- Operation record for easier troubleshooting;
- Trial mode available with configurable trial duration;
- Weasy-Config PC software for remote configuration and monitoring.

## Specifications

|                        |                              |                                                                                          |
|------------------------|------------------------------|------------------------------------------------------------------------------------------|
| General Specifications | Model                        | G-2301P                                                                                  |
|                        | Power Supply                 | 24VDC (18~30VDC)                                                                         |
|                        | Dimensions                   | 103*91*56(mm)                                                                            |
|                        | Product Weight               | 345g                                                                                     |
|                        | Operating Environment        | -10~40°C, 90%R.H, non-condensing                                                         |
|                        | IP Grade                     | IP65(Front Panel)                                                                        |
|                        | Keys                         | 6 keys                                                                                   |
| Measurement Parameters | Approval Standard            | Class III 6000e, 1μV/e                                                                   |
|                        | Load Cell Excitation Voltage | 5V 200mA(MAX)                                                                            |
|                        | Load Cell Requirements       | 1 analog load cell interface, Connect up to 8×350 Ω load cells, for 1mV/V, 2mV/V, 3mV/V; |
|                        | Input Sensitivity            | 0.01μV/d                                                                                 |
|                        | Nonlinearity                 | 0.01% F.S                                                                                |
|                        | A/D Sampling Speed           | 50/60/100/120/200/240/400/480/800/960 (SPS)                                              |
|                        | Maximum Display Resolution   | 1/1,000,000                                                                              |

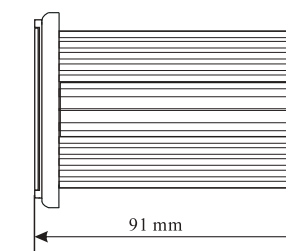
## Dimension

Unit:mm

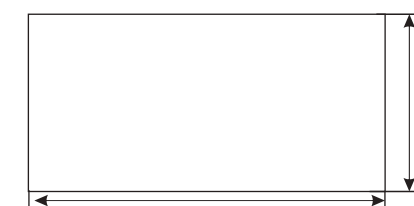


Front panel size(mm) : 105 X 57

rear panel size (mm) : 92×45



side size (mm) : 91



opening size(mm) : 93×46

# GMT-H1

## Weighing Transmitter

(Digital Version Available)



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

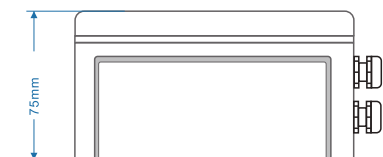
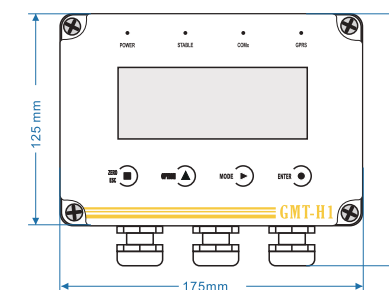
### Options

- GPRS data transmission function;



## Specifications

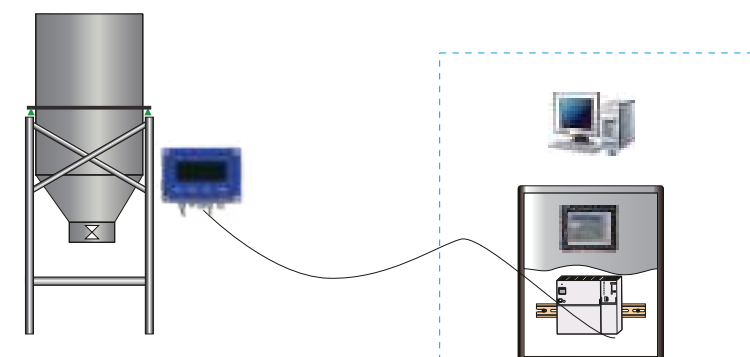
|                                   | Mode                                                                 | GMT-H1                                                                                                                                      | GMT-H1 Digital Version                                       |
|-----------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| General Specifications            | Power                                                                | AC 90~260V 50Hz(or 60Hz)±2%                                                                                                                 |                                                              |
|                                   | Temperature                                                          | -20°C~60°C;90% RH.without dew                                                                                                               |                                                              |
|                                   | Power consumption                                                    | About 10W                                                                                                                                   |                                                              |
|                                   | Weights                                                              | 750g                                                                                                                                        |                                                              |
|                                   | A/D conversion                                                       | 24 bit Delta-Sigma                                                                                                                          | N/A                                                          |
| Measurement Parameters            | 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                                                          |
|                                   | Gain drift                                                           | 10PPM/°C                                                                                                                                    | N/A                                                          |
|                                   | Sensitivity                                                          | 0.1μV/d / 0.5μV/d                                                                                                                           | N/A                                                          |
|                                   | Input range                                                          | Max 0.02~15mV                                                                                                                               | N/A                                                          |
|                                   | Maximum display accuracy                                             | 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 350Ω, and the sensitivity in 1mV/V、2mV/V、3mV/V. | 1 digital load cell interface, up to connect to 8 load cells |
|                                   | Load cell excitation                                                 | DC 5V 200mA(Max)                                                                                                                            | DC 12V 250mA                                                 |
| I/O Interfaces and Communications | RS485(Standard); Support ModbusRTU, continuous transmission protocol |                                                                                                                                             |                                                              |
|                                   | RJ45(Standard); Support Modbus-TCP, continuous transmission protocol |                                                                                                                                             |                                                              |
|                                   | GPRS data transmission function                                      |                                                                                                                                             |                                                              |
|                                   | Fixed IO: 3 Input, 3 Output                                          |                                                                                                                                             |                                                              |
|                                   | Optional IO: 3 more (can be selfdefined as output or input)          |                                                                                                                                             |                                                              |



Unit : mm

\*Specification and dimension may be upgraded, please consult sales manager for the latest info.

## Application



The high-speed transmission



# GMT-H2

## Weighing Transmitter

(Digital Version Available)



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.

### HARDWARE HIGHLIGHTS



#### Standard

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

#### Options

- ① 1 analog output;
  - ② 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) or CCLink IE.
- (Option ①② can be selected at the same time.)



### SOFTWARE HIGHLIGHTS

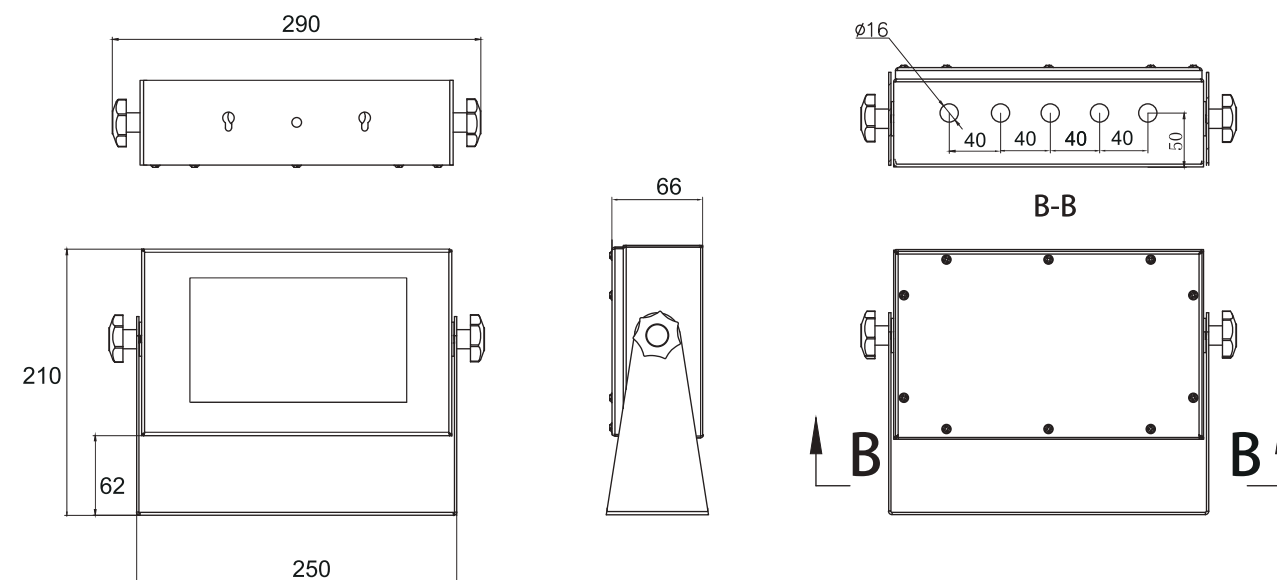
- Zeroing and taring functions;
- Analog functions;
- Serial port communication functions;
- Simple weighing functions: weight collect, filter and display;
- Calibration with or without weights, support 5 points calibration with weights;
- Print function;
- I/O preset point function;

### Specifications

|                        |                       |                                                             |
|------------------------|-----------------------|-------------------------------------------------------------|
| General Specifications | Model                 | GMT-H2                                                      |
|                        | Power Supply          | DC 24V ( 12~30VDC )                                         |
|                        | Working temperature   | -10°C~40°C                                                  |
|                        | Maximum humidity      | 90% RH.without dew                                          |
|                        | Approval standards    | OIML R76, ClassIII 6000 e, 1 μ V/e                          |
|                        | Power consumption     | About 10W                                                   |
| Measurement Parameters | A/D performance       | 24 bit Delta-Sigma                                          |
|                        | A/D conversion speed  | 30/60/120/240/480/960 times/sec                             |
|                        | Non-linearity         | 0.01%F.S                                                    |
|                        | Gain drift            | 10PPM/°C                                                    |
|                        | 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



\*Specification and dimension may be upgraded, please consult sales manager for the latest info.

# GM7702

## Weighing Transmitter



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 and RS485 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.



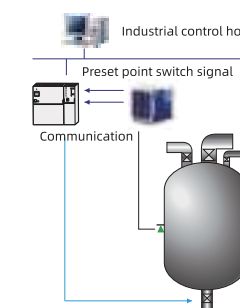
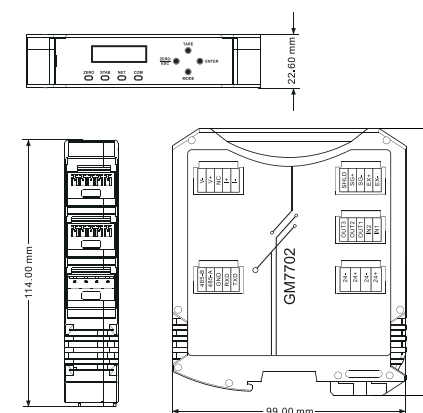
RS485/RS232

## Specifications

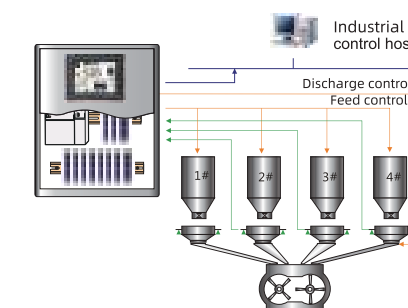
|                        |                          |                                                                                                                       |
|------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------|
| General Specifications | Model                    | GM7702                                                                                                                |
|                        | Power Supply             | DC 24V                                                                                                                |
|                        | Working temperature      | -10℃~40℃                                                                                                              |
|                        | Maximum humidity         | 90% R.H without dew                                                                                                   |
| Measurement Parameters | 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/℃                                                                                                               |
|                        | Input sensitivity        | 0.02μV/d                                                                                                              |
|                        | Input range              | -15mV~15mV                                                                                                            |
|                        | Maximum display accuracy | 1/100,000                                                                                                             |
|                        | Load cell power          | DC 5V 100mA(Max)                                                                                                      |
| I/O Part               | Input impedance          | 10MΩ                                                                                                                  |
|                        | Zero steady range        | -15mV~15mV(Load cell 3mV/V)                                                                                           |
|                        | Inputs                   | 2,active low<br>Zero/tare/trigger preset point n (n=1/2/3/4)                                                          |
|                        | Outputs                  | 3,single drive current 500mA<br>Stabilization/Overflow/Trigger Point n Output<br>(n=1/2/3/4)/Upper/Middle/Lower Limit |

## Application

Unit:mm



Preset point mode weighing application



Multi-material serial weighing and networking

\*Specification and dimension may be upgraded, please consult sales manager for the latest info.



# G-2301P

## Panel-Mount Weighing Indicator (Bagging Scale)



The G-2301P is a new-generation panel-mount weighing controller designed for bagging scale. With its compact design, stable performance, and powerful functions, the controller features a dual-row digital display that simultaneously shows weight, feeding status, recipe number, target value, analog output, and other information. It is widely used in packing applications across the grain, feed, fertilizer, chemical, and food industries.



## HARDWARE HIGHLIGHTS



### Standard

- ①Load cell : 6-wire interface;
- ②Serial port: 1 RS485 or RS232;
- ③I/O: 4 inputs and 10 outputs;
- ④USB: 1 port;

### Options

- ①Network: single or dual ports, for Modbus TCP/IP or a PROFINET;
- ②Analog output: 1 or 2 channels of 16-bit analog output, current mode or voltage mode are available.  
(Hardware Option ①② can be selected at the same time)



## FEATURES

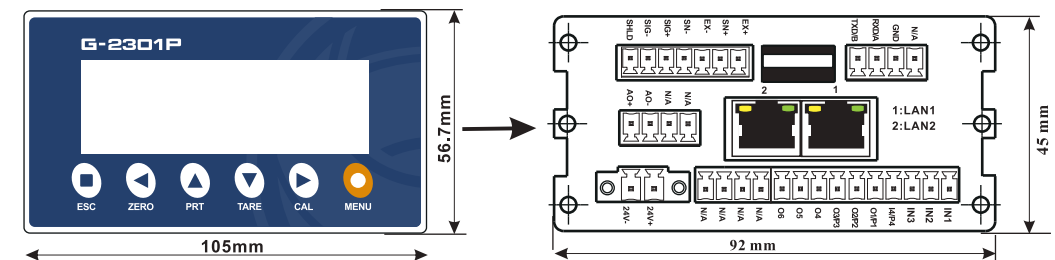
- Flexible Mechanism Compatibility:** Feeding mechanisms including pneumatic feeders, vibratory feeders, screw feeders, and stepper-controlled gates; Discharge mechanisms such as pneumatic actuators, reversible motors, and rotary motors.
- Recipe Management and Data Traceability:** Supports 100 product recipes and stores up to 10,000 operation, alarm, and packing records. Data can be exported via USB.
- Printing for Fast Operation:** Supports one-touch printing of packing data for efficient operation, convenient record retrieval, and streamlined production management.
- Parameter Backup and Fast Migration:** Backs up and imports controller parameters and calibration data via USB, significantly reducing equipment maintenance time.
- Dual Lock Protection:** Keyboard lock and calibration lock functions help prevent unauthorized parameter changes and calibration, ensuring stable equipment operation.
- Remote Setting and Device Management:** Weasy-Config PC software or web for remote parameter configuration and status monitoring, simplifying setup and maintenance.

## Specifications

|                        |                              |                                                                                        |
|------------------------|------------------------------|----------------------------------------------------------------------------------------|
| General Specifications | Model                        | G-2301P                                                                                |
|                        | Power Supply                 | 24VDC (18~30VDC)                                                                       |
|                        | Dimensions                   | 103*91*56(mm)                                                                          |
|                        | Product Weight               | 345g                                                                                   |
|                        | Operating Environment        | -10~40°C, 90% R.H, non-condensing                                                      |
|                        | IP Grade                     | IP65(Front Panel)                                                                      |
|                        | Keys                         | 6 keys                                                                                 |
|                        | Approval Standard            | ClassIII 6000e, 1μV/e                                                                  |
| Measurement Parameters | Load Cell Excitation Voltage | 5V 200mA(MAX)                                                                          |
|                        | Load Cell Requirements       | 1 analog load cell interface, Connect up to 8×350 Ω load cells, for 1mV/V、2mV/V、3mV/V; |
|                        | Input Sensitivity            | 0.01μV/d                                                                               |
|                        | Nonlinearity                 | 0.01% F.S                                                                              |
|                        | A/D Sampling Speed           | 50/60/100/120/200/240/400/480/800/960 (SPS)                                            |
|                        | Maximum Display Resolution   | 1/1,000,000                                                                            |

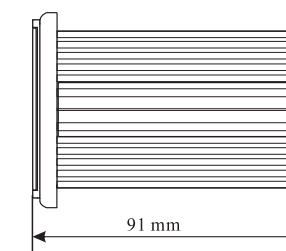
## Dimension

Unit:mm

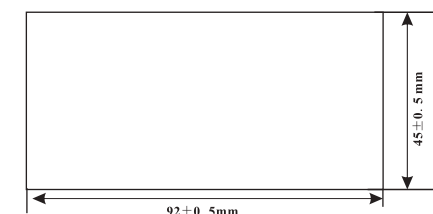


Front panel size(mm) : 105 X 57

rear panel size (mm) : 92×45



side size (mm) : 91



opening size(mm) : 93×46

# GMC-X3

## Loss-in-Weight Controller



GMC-X3 is a rail-mounted 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.

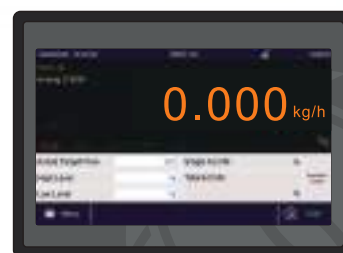
## Functions & Features

### Weasy Functions

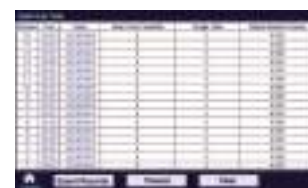
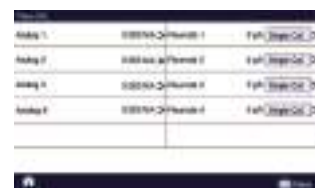
- **Standard** 1.92-inch OLED display
- **Optional** Weintek 7-inch or 10-inch touch screen, well-designed interface, easy operation.
- Two permissions, prevents operator error;
- Modular design, Clear simple interface and easy operation.
- Support 4 points flow calibration, single point flow calibration, more accuracy;
- Historial data check and excel export.



• Standard



• Optional



## Hardware Features

- Stainless steel case, IP65 protection;
  - USB Port, Easy to upgrade and import/export data;
  - **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;
    - A standard network port for Modbus TCP
  - **Options**
    - ① Dual net work ports for Modbus TCP or Profinet;
    - ② 1 Analog input (current/voltage optional)+1 analog output interface;
- (Option ①② can be selected at the same time.)

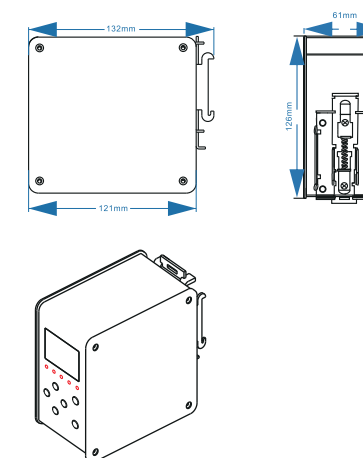
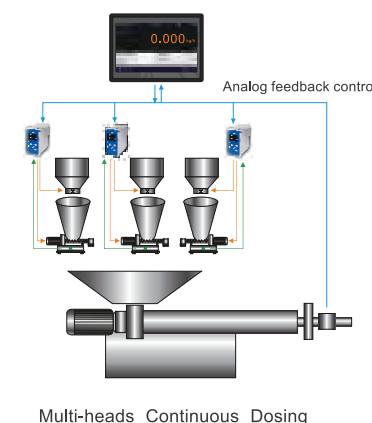
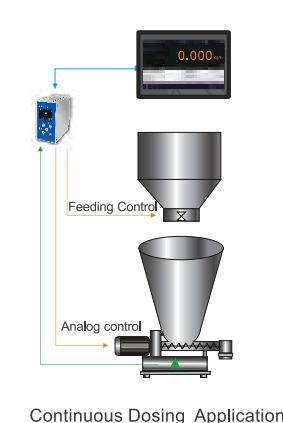
## Software Features

- 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);
- **Working modes**: ① Flow calibration mode;
- ② Flow rate presetting and flow rate giving mode;
- ③ 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;

## Specifications

|                         |                              |                                                                                                                                                                                                                                                                                |
|-------------------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General Specifications  | Model                        | GMC-X3                                                                                                                                                                                                                                                                         |
|                         | Power Supply                 | DC 24V ( 18~36VDC )                                                                                                                                                                                                                                                            |
|                         | Approved Environment         | -10°C~40°C                                                                                                                                                                                                                                                                     |
|                         | Maximum humidity             | 90% R.H without dew                                                                                                                                                                                                                                                            |
|                         | Testing standards            | Class III 6000 e, 1 μ V/e                                                                                                                                                                                                                                                      |
|                         | Power Dissipation            | 15W                                                                                                                                                                                                                                                                            |
| Measurement Parameters  | Load cell excitation voltage | 5V 200mA(MAX)                                                                                                                                                                                                                                                                  |
|                         | Load cell connection         | 1load cell interface , 6-wire with compensation , up to 8 load cells with 350Ω, support 1mV/V、2mV/V、3mV/V sensitivity.                                                                                                                                                         |
|                         | Analog Input Range           | 0~15mV                                                                                                                                                                                                                                                                         |
|                         | Input sensitivity            | 0.1μV/d                                                                                                                                                                                                                                                                        |
|                         | Non-Linear                   | 0.01%F.S                                                                                                                                                                                                                                                                       |
|                         | A/D Conversion               | 480 times/sec                                                                                                                                                                                                                                                                  |
| Communication Interface | Display Accuracy             | 1/1,000,000                                                                                                                                                                                                                                                                    |
|                         | Standard                     | <ul style="list-style-type: none"> <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> <li>• A standard network port for Modbus TCP</li> </ul> |
| Optional                | Optional                     | <ul style="list-style-type: none"> <li>• Dual net work ports for Modbus TCP or Profinet</li> <li>• 1 Analog input (current/voltage optional) + 1 analog output interface;</li> </ul>                                                                                           |

## Application



\*Specification and dimension may be upgraded, please consult sales manager for the latest info.



# GMC-X904-2/D

## Packing Controller



GMC-X904-2/D single or double hopper packing controller is a DIN rail-mounted weighing controller developed for packaging machine. Stainless steel case provides strong capability in anti-interference. The new algorithm makes the weighing control faster and more accurate. It can be widely used in feed, chemical, grain and other industries.



### HARDWARE HIGHLIGHT



#### Standard:

- ① Serial Port: 1 RS485 + 1 RS232 or 1 RS485;
- ② USB: for data backup and system upgrade;
- ③ I/O: 12 inputs 16 outputs;

#### Options:

- ① Single or dual network ports;
  - ② 1-4 DA output or 5 IN 6 OUT I/O or 4 SCR voltage regulator interface;
- (Option①②can be selected at the same time)



### SOFTWARE HIGHLIGHT

- Support hopper/non hopper/big bag/bulking scale structure;

**Working mode:** supports single-scale and dual scale interlock operation (Maximum 6 scales);

- Supports control of pneumatic cylinders, standard motors or servo motor control for gate opening/closing, and servo motor control of auger feeders.
- Batches setting function;
- Material level control function;
- Multiple Digital Filtering;
- I/O logic programming control function;
- Automatic Zero Tracking;

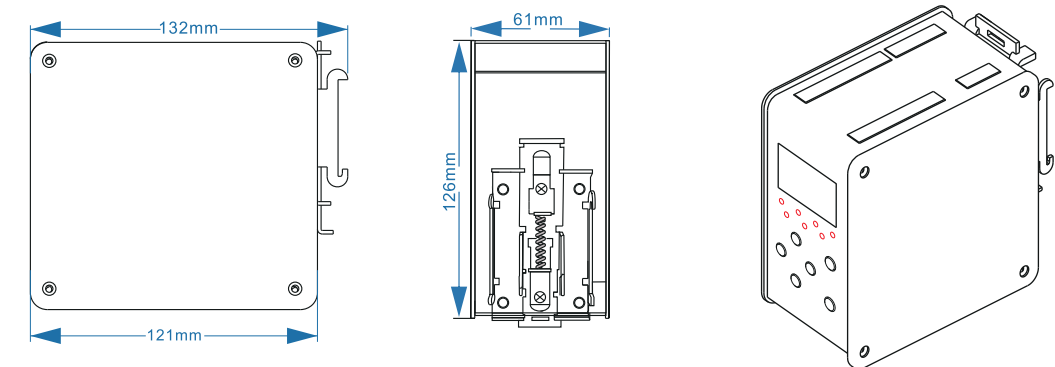
#### Weighing and peripheral functions:

- Auxiliary Pulse;
- Multiple Bag Tapping Modes;
- Sewing Machine Control;
- Discharge Vibration;
- Conveyor Control;
- Printing Function.



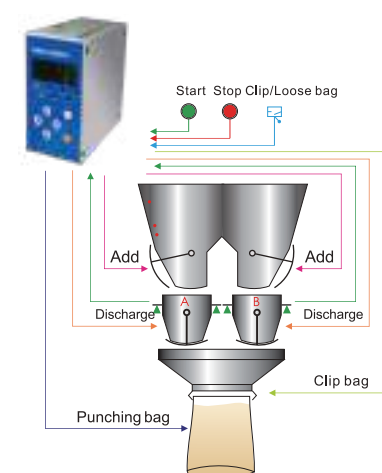
### Specifications

|                        |                     |                                     |
|------------------------|---------------------|-------------------------------------|
| General Specifications | Model               | GMC-X904                            |
|                        | Power               | DC24V $\pm$ 5%                      |
|                        | Size                | 61mm $\times$ 132mm $\times$ 126mm  |
|                        | Working Environment | -10~40°C                            |
|                        | Max. Humidity       | 90%R.H No Condensation              |
|                        | Power Dissipation   | Approx. 15W                         |
| Measurement Parameters | Weighing Standard   | ClassIII 6000e, 1 $\mu$ V/e         |
|                        | A/D Conversion      | 24bit Sigma-Delta                   |
|                        | A/D Speed           | 120/240/480/960 SPS                 |
|                        | Non-Linearity       | 0.01%FS                             |
|                        | Gain Drift          | 10 PPM/°C                           |
|                        | Sensitivity         | 0.02 $\mu$ V/d                      |
|                        | Input Millivolt     | 0.02~15mV                           |
|                        | Load cell Power     | DC5V, 125mA(Max)                    |
|                        | Input Impedance     | 10MQ                                |
|                        | Zero Steady Range   | Maximum 0.002~15mV(Load Cell 3mV/V) |

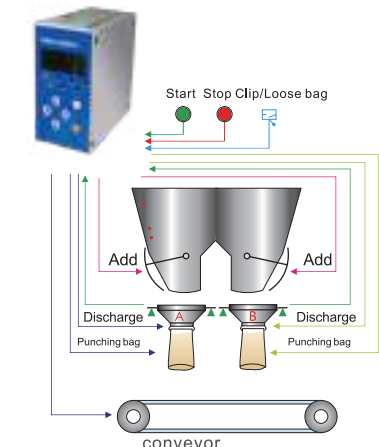


\*Specification and dimension may be upgraded, please consult sales manager for the latest info.

### Application



Duplex Packing Controller with Hopper



Duplex Packing Controller without Hopper

# GMC-X904-S2/SD

## Linear Feeder Controller



The GMC-X802-C2/D is a weighing module developed for linear feeder packing systems with vibrators. Single scale (S2) or dual scale (SD) are selectable. The new algorithm makes the weighing control faster and more accurate. Various communication ports make the equipment easier to connect with the system. it is suitable for weighing powdery or small granular materials, such as sugar, salt, seeds, rice, sesame, spice, milk powder, coffee, washing powder, etc.



## HARDWARE HIGHLIGHT



### Standard:

- ① Serial Port: 1 RS485 + 1 RS232 or 1 RS485;
- ② USB: for data backup and system upgrade;
- ③ I/O: 12 inputs 16 outputs;

### Options:

- ① Single or dual network ports;
  - ② 1-4 DA output or 5 IN 6 OUT I/O or 4 SCR voltage regulator interface;
- (Option①②can be selected at the same time)

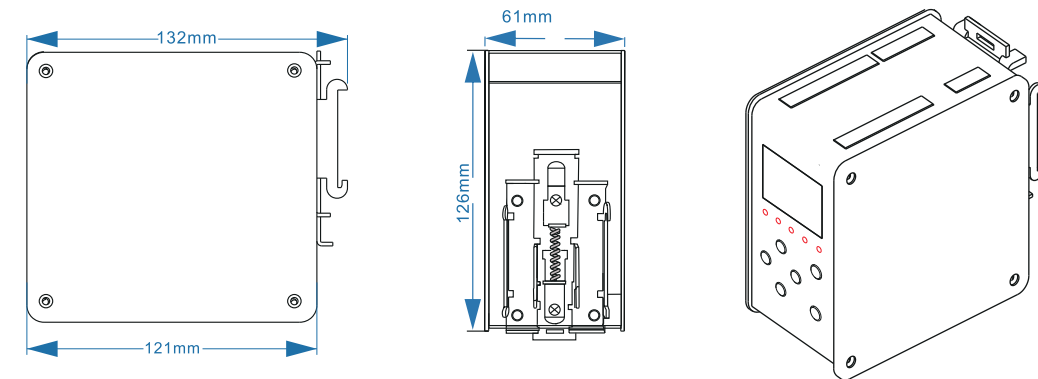


## Functions

- DIN rail mount, save space;
- With screen and buttons for easy operation;
- Multiple operating modes, including Master/Slave, For dual packing scales, up to 3 controllers for 6 packing scales interlocking without PLC;
- McgsPro program sample code of single / double / four / six scales can be provided;
- Various feeding mechanisms: vibrator, air cylinder, stepper/servo motor;
- Various discharging mechanisms: pneumatic, common motor, stepper motor, etc.;
- Support for batching management, bag clamp/loosen, material level control, over-under alarm and under-level feed;
- Support analog self-search, lead adaptive function, reduce the difficulty of debugging, to achieve intelligent system;
- Integrated with an SCR power output interface, the controller can directly drive electromagnetic vibratory feeders and vibrators, enabling fast and slow speed feeding control.

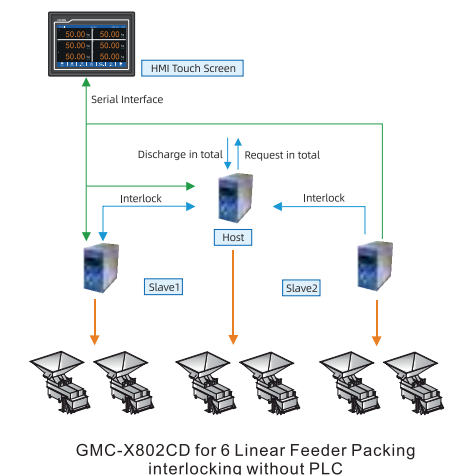
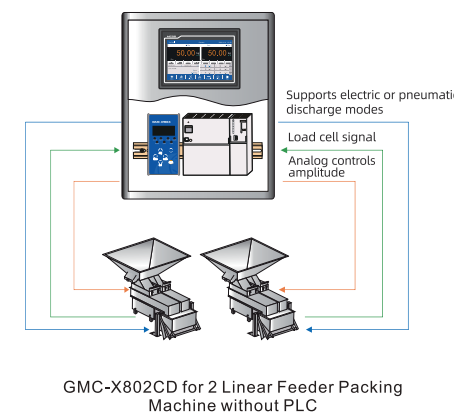
## Specifications

|                        |                       |                                 |
|------------------------|-----------------------|---------------------------------|
| General Specifications | Model                 | GMC-X904-S2/SD                  |
|                        | Power                 | DC 24V ±5%                      |
|                        | Working Temperature   | -10 ~ 40°C                      |
|                        | Humidity              | 90%R.H no condensation          |
|                        | Power Consumption     | Approx. 5W                      |
|                        | Calibration standard  | ClassIII 6000e, 1μV/d           |
|                        | Size                  | 61mm x 132mm x 126mm            |
| Weighing Parameters    | A/D Conversion        | 24 bits Delta-Sigma             |
|                        | Nonlinearity          | 0.01%F.S                        |
|                        | Gain Drift            | 10 PPM/°C                       |
|                        | Sensitivity           | 0.1μV/d                         |
|                        | Input range           | 0.02~11mV (load cell: 2mV/V)    |
|                        | Load Cell Power       | DC5V, 125mA(Max)                |
|                        | Input Impedance       | 10MΩ                            |
|                        | Zero Adjustment Range | Max 0.02~8mV (load cell: 2mV/V) |



\*Specification and dimension may be upgraded, please consult sales manager for the latest info.

## Application





# M04

## Weighing Controller Plastic Version



M04 weighing controller is designed for dynamic weighing applications like: packing, bulking, and liquid filling, widely used in grain and seeds, feeds, fertilizer, cement and concrete, and the chemical industries.

## DESCRIPTION



### Application Software

#### Multiple Software Selections:

- M04-2 Simplex packing;
- M04-4 Reduce weight method packing;
- M04-5 Bulk Scale (continuous weighing);
- M04-6/6D Liquid filling(simplex/duplex);
- M04-D Duplex packing;
- M04-5 Bulk Scale (continuous weighing);

### Highlight Features

#### Button Functions

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

#### Auxiliary logic programming function

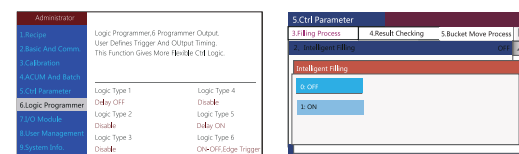
Up to 6 sets of logic trigger signals can be defined and simple logic signal output can be configured to control the upper barrel, gland, coding and other auxiliary devices.

#### 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.



### Multiple Communication Methods

- RS232 + RS232/RS485 selectable;
- M04-2, M04-4, M04-5, M04-6: 8 Inputs/12 Outputs  
M04-D, M04-6D: 12 Inputs/17 Outputs for starting, stopping, zeroing, clamping/loosening bags, etc.;
- Modbus TCP for connecting PC, PLC, printer etc. (M04-2 & M04-5);
- USB for importing and exporting data or working parameters, upgrading software or customizing boot screen.;



# M04

## Weighing Controller Stainless Steel Version



M04 weighing controller is designed for dynamic weighing applications like: packing, bulking, and liquid filling, widely used in grain and seeds, feeds, fertilizer, cement and concrete, and the chemical industries.

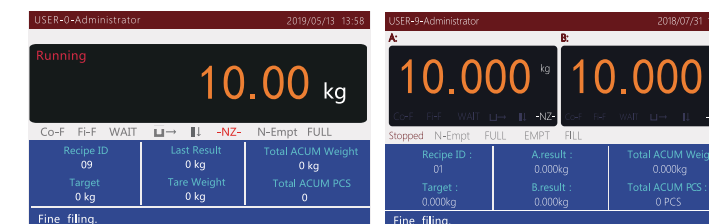
## DESCRIPTION



### Application Software

#### Multiple Software Selections:

- M04-2 Simplex packing;
- M04-4 Reduce weight method packing;
- M04-5 Bulk Scale (continuous weighing);
- M04-6/6D Liquid filling(simplex/duplex);
- M04-D Duplex packing;
- M04-5 Bulk Scale (continuous weighing);



### Industrial Design

- Stainless steel case, robust and durable;
- 5-inch LCD screen plus button input, user-friendly operation;
- 20 species formula for different weight ranges and materials packing;



### Multiple Communication Methods

- RS232 + RS232/RS485 selectable;
- M04-2, M04-4, M04-5, M04-6: 8 Inputs/12 Outputs  
M04-D, M04-6D: 12 Inputs/17 Outputs for starting, stopping, zeroing, clamping/loosening bags, etc.;
- Modbus TCP for connecting PC, PLC, printer etc. (M04-2 & M04-5);
- USB for importing and exporting data or working parameters, upgrading software or customizing boot screen.;

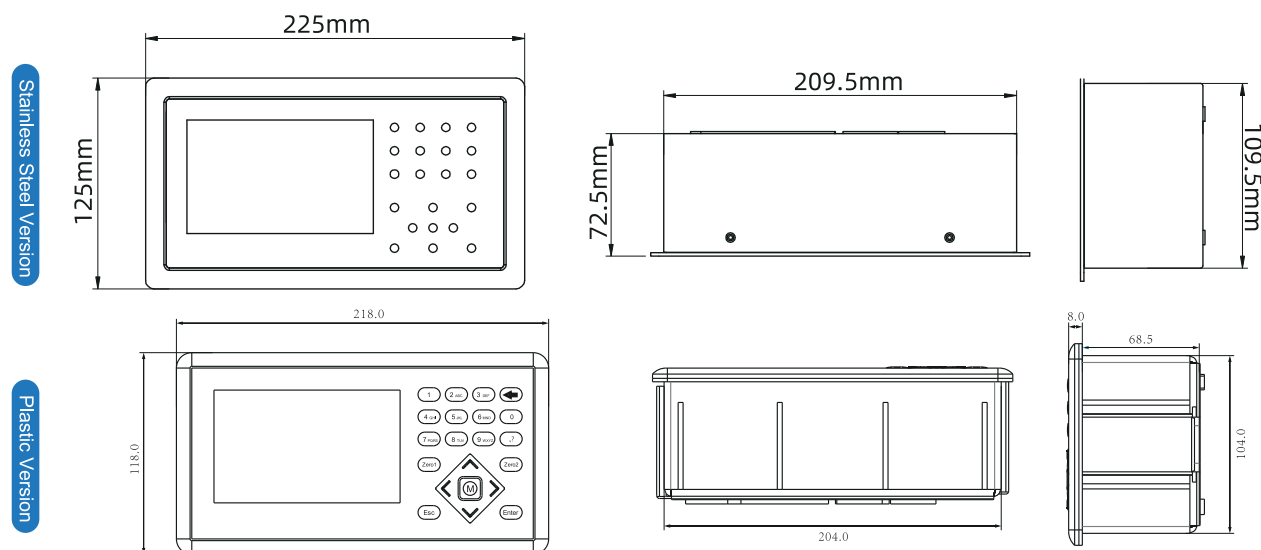


## Specifications

|                        |                                            |                                        |
|------------------------|--------------------------------------------|----------------------------------------|
| General Specifications | Model                                      | M04                                    |
|                        | Power supply                               | AC 90~260V 50Hz(60Hz) $\pm 2\%$        |
|                        | Working temperature                        | -10°C~40°C                             |
|                        | Maximum humidity                           | 90% R.H without dew                    |
|                        | Approval standards                         | OIML R76, ClassIII 6000 e, 1 $\mu$ V/e |
|                        | IP grade                                   | IP65 (front panel)                     |
| A/D Conversion         | A/D performance                            | 24 bit Delta-Sigma                     |
|                        | A/D conversion speed                       | 120/240/480/960 times/sec              |
|                        | Non-linearity                              | 0.01%F.S                               |
|                        | Gain drift                                 | 10PPM/°C                               |
|                        | Input sensitivity                          | 0.02 $\mu$ V/d                         |
|                        | Display accuracy                           | 1/100,000                              |
|                        | Input range                                | 0.02~15mV                              |
|                        | Sensor power supply                        | DC5V 125mA(Max)                        |
| Application Software   | Input impedance                            | 10M $\Omega$                           |
|                        | Zero steady range                          | Maximum 0.002 ~ 15mV(Load Cell 3mV/V)  |
|                        | 1.M04-2 Simplex packing;                   |                                        |
|                        | 2.M04-D Duplex packing;                    |                                        |
|                        | 3.M04-4 Reduce weight method packing;      |                                        |
|                        | 4.M04-5 Bulk scale (continuous weighing);  |                                        |
|                        | 5.M04-6/6D Liquid filling(simplex/duplex); |                                        |

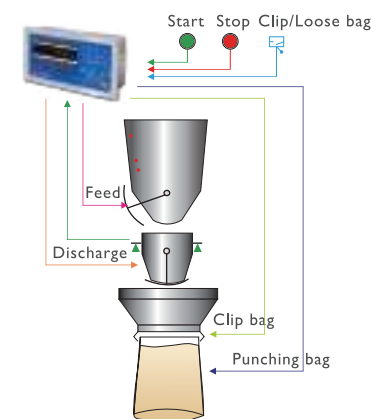
## Dimension

Unit:mm

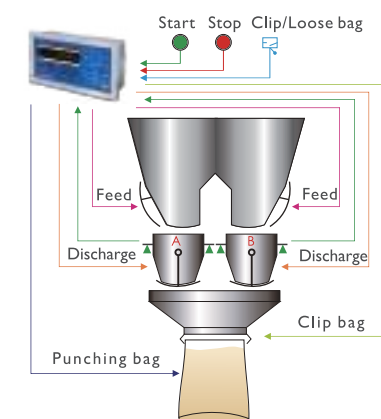


\*Specification and dimension may be upgraded, please consult sales manager for the latest info.

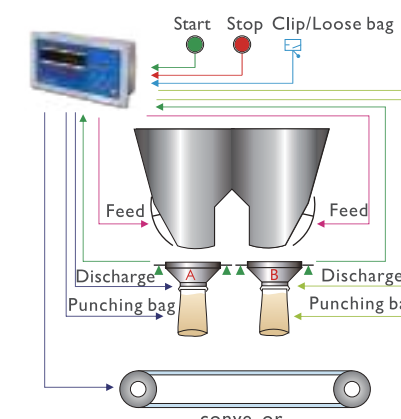
## Application



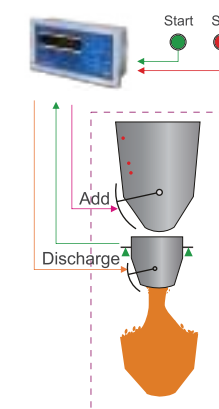
Single Channel Packaging Controller with Hopper



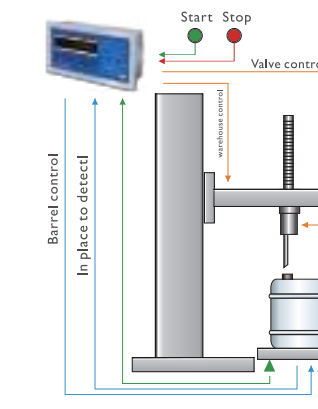
Double Channel Packaging Controller with Hopper



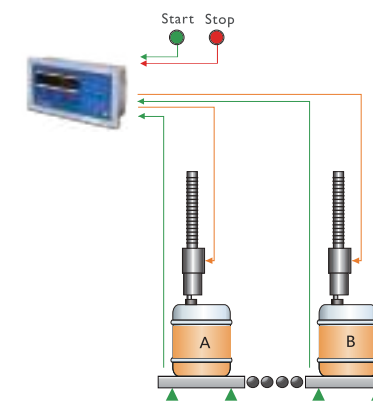
Double Channel Packaging Controller without Hopper



Continuous Weighing



Single Nozzle for Liquid Filling Application



Double Nozzle for Liquid Filling Application



# GMC-P7

## Touch Screen Weighing Controller



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.



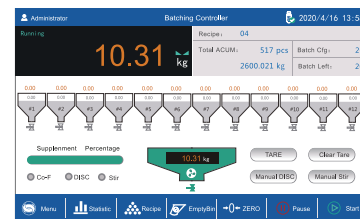
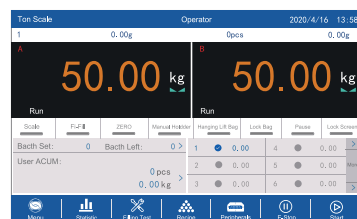
## DESCRIPTION



### Application Software

#### Multiple Software Selection:

- Simplex packing;
- Duplex packing;
- Reduce weight method packing;
- Bulk Scale (Continuous weighing);
- Liquid Filling;
- 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.



### Multiple Communication Methods



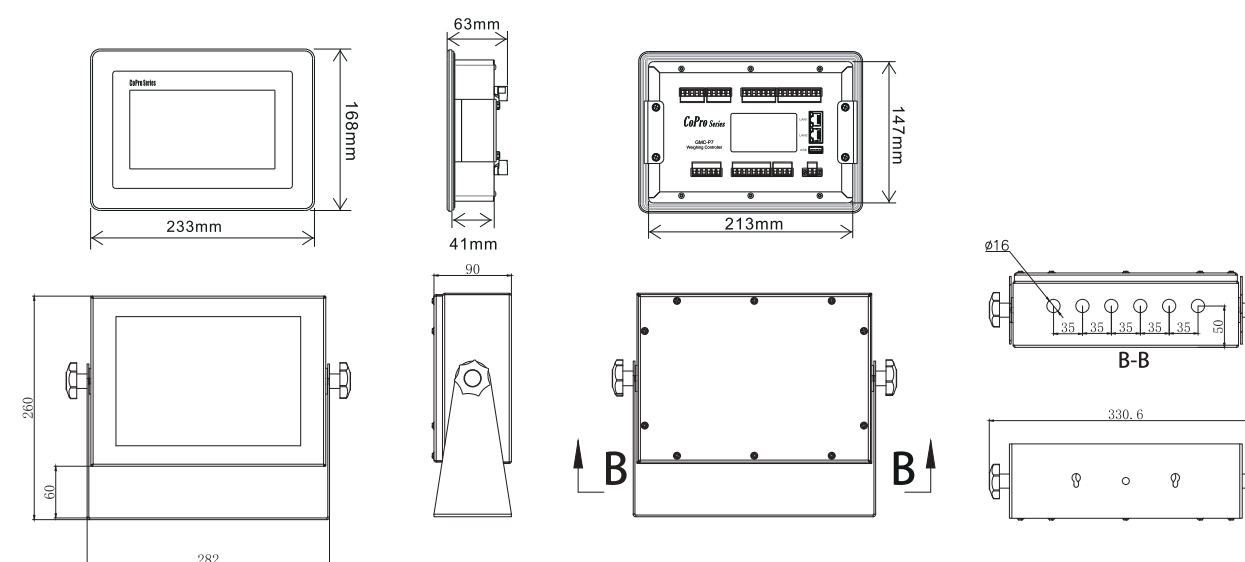
- **RS232+RS485** for connecting PC, PLC, Printer, Label Printer, Remote Display, Code Printer, or other external devices, for reading and setup remotely;
- **12 Input/16 Output** for starting, stopping, unloading, clamping/loosening bags, etc.;
- **Modbus TCP** for connecting PC, PLC, Printer, etc., 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.

## Specifications

|                        |                                                                                                                                                                                                                                             |                                       |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| General Specifications | Model                                                                                                                                                                                                                                       | GMC-P7 (CoPro Series)                 |
|                        | Power Supply                                                                                                                                                                                                                                | DC 24V plus or minus 5%               |
|                        | Working temperature                                                                                                                                                                                                                         | -10°C~40°C                            |
|                        | Maximum humidity                                                                                                                                                                                                                            | 90% R.H without dew                   |
|                        | Testing standards                                                                                                                                                                                                                           | Class III 6000 e, 1 $\mu$ V/e         |
|                        | Power consumption                                                                                                                                                                                                                           | About 15 w                            |
| Measurement Parameters | A/D performance                                                                                                                                                                                                                             | 24 bit Delta-Sigma                    |
|                        | A/D conversion speed                                                                                                                                                                                                                        | 120/240/480 times/sec                 |
|                        | Non-linearity                                                                                                                                                                                                                               | 0.01%F.S                              |
|                        | Gain drift                                                                                                                                                                                                                                  | 10PPM/°C                              |
|                        | Input sensitivity                                                                                                                                                                                                                           | 0.02 $\mu$ V/d                        |
|                        | Display Accuracy                                                                                                                                                                                                                            | 1/100,000                             |
|                        | Input range                                                                                                                                                                                                                                 | 0.02~15mV                             |
|                        | Sensor power supply                                                                                                                                                                                                                         | DC5V 125mA(Max)                       |
| Application Software   | Input impedance                                                                                                                                                                                                                             | 10M $\Omega$                          |
|                        | Zero steady range                                                                                                                                                                                                                           | Maximum 0.002 ~ 15mV(Load Cell 3mV/V) |
| Function extension     | <ul style="list-style-type: none"> <li>• Simplex packing;</li> <li>• Reduce weight method packing;</li> <li>• Liquid Filling;</li> <li>• Duplex packing;</li> <li>• Bulk Scale (Continuous weighing);</li> <li>• Batching scale.</li> </ul> |                                       |
|                        | Equipped with GMA-X1 automatic traction module, reduce workforce cost                                                                                                                                                                       |                                       |

## Dimension

Unit:mm



\*Specification and dimension may be upgraded, please consult sales manager for the latest info.

# GMC-P7(F8)

## Touch Screen Weighing Controller

(Digital Version Available)



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), 5 output (TTL), I/O position can be customized;
- 2 RS485 and 1 RS232;

### Options:

- ① Modbus TCP ;
  - ② Profinet or Ethernet/IP ;
  - ③ 1 analog output;
  - ④ 4 relay output;
- (Option ①②③④ can be selected at the same time.)



### 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;



## SOFTWARE SELECTION

- Standard weight transmitting
- Static checkweighing,



# GMC-P7(F8)

## Touch Screen Weighing Controller

(Static Checkweighing Application)



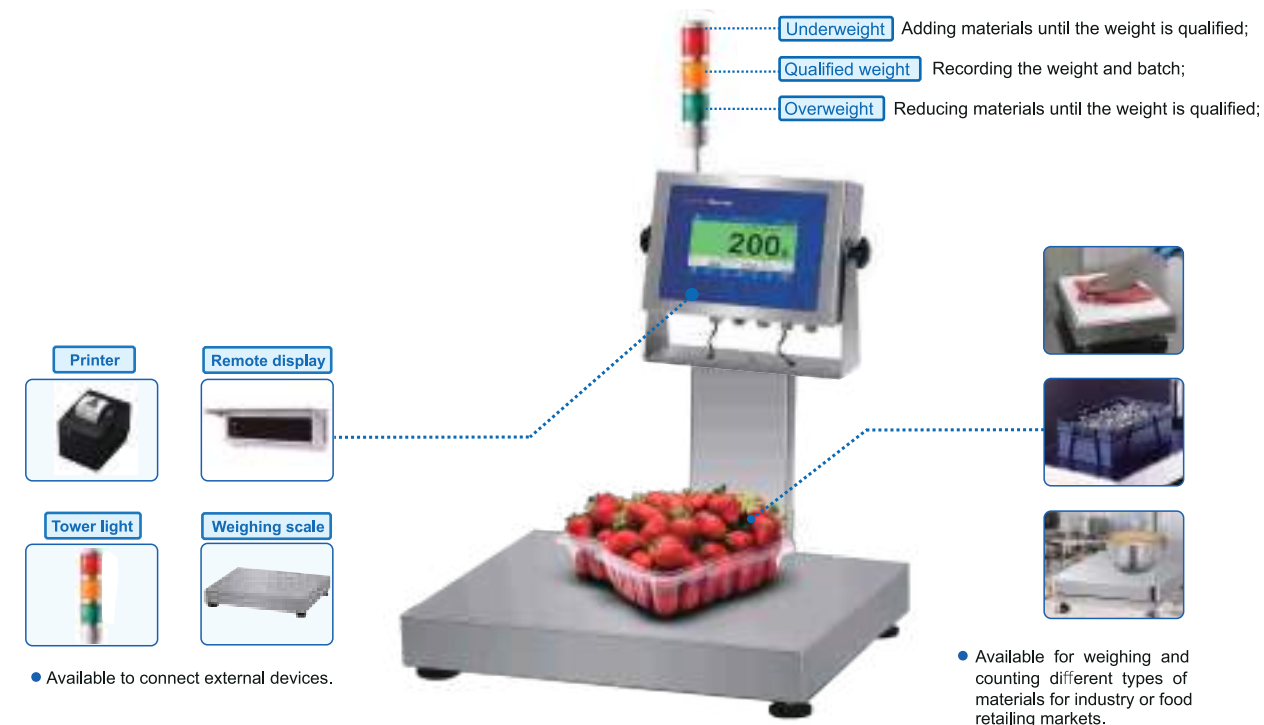
## FEATURES & FUNCTIONS



- 7-inch touch screen, intuitive display, better interaction, easy operation;
- Stainless steel, front panel IP65, strong anti-interference;
- 50 editable formulas for user switching easily;
- Support micro printer and EPSON serial printer, table head and foot is editable;
- 4 million data storage, USB for exporting data;
- Check history records by selecting time or product name;
- Cumulative batches of weights qualified can be recorded;
- Continuous taring function;
- Analog output function;
- Standard 5 IN/5 OUT I/O ports;
- Two-level filtering function dealing with data fluctuating;
- Customized boot screen;
- Multilevel user authority management (operator, administrator);



## APPLICATION





# Static Weighing Function

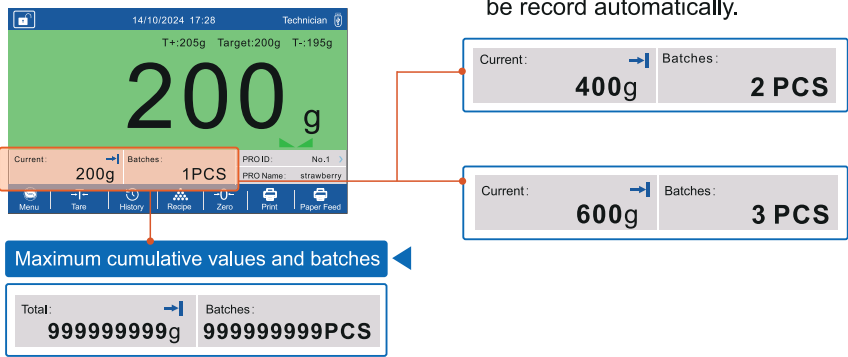
- The weighing result is clear.



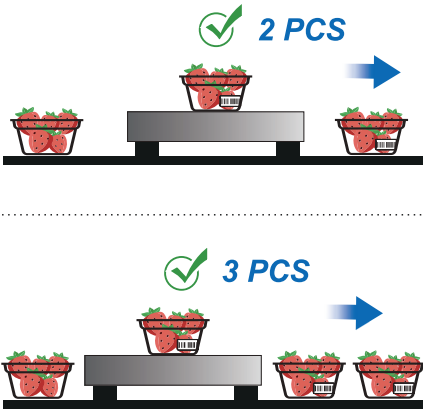
- Three tolerance modes: absolute, deviation, percentage; easy to use;

| PRO ID | PRO Name   | Tolerance Entry | Upper Limit | Preset Tare |
|--------|------------|-----------------|-------------|-------------|
| 1      | strawberry | 200 g           | 2 g         |             |
|        |            | Absolute        | Deviation   | Percentage  |

- Recording the accumulated weights and batches, easy to manage;



When it reaches qualified weights, the total weights and batches will be record automatically.



## Non-target mode

Record the qualified cumulative weights and batches.

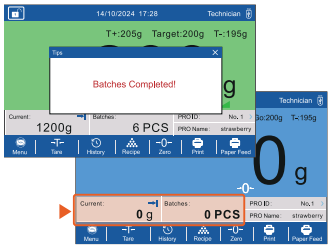
| Function Setting                     | 14/10/2024 17:23 | Technician           |
|--------------------------------------|------------------|----------------------|
| App Mode                             | Static Check Wt  | Target Batches 0 PCS |
| Auto Print                           | Clear Total ACUM |                      |
| Forbidden operator modify parameters |                  |                      |
| Target Batches                       | 0 PCS            |                      |

## Target-mode

Reach the target weighing batch.

| Function Setting                     | 14/10/2024 17:23 | Technician           |
|--------------------------------------|------------------|----------------------|
| App Mode                             | Static Check Wt  | Target Batches 6 PCS |
| Auto Print                           | Clear Total ACUM |                      |
| Forbidden operator modify parameters |                  |                      |
| Target Batch                         | 6 PCS            |                      |

- After reaching the target batch, the completion alarm pop up, and the cumulative weights and batches will be cleared.



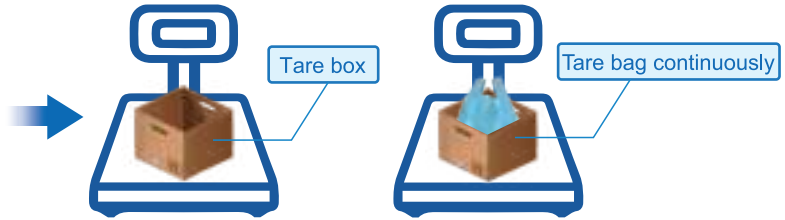
- Two-level filtering: dealing with data fluctuating, make it stable;

- Multilevel sampling rate, more choice for user.

| Basic PARAM | 14/10/2024 17:28 | Technician         |
|-------------|------------------|--------------------|
| Zero CFG    | Digi-Filter 8    | Sample Rate 120Hz  |
| ADV Filter  | 0 d              | Input Range 0-10mV |
| Filter      |                  |                    |
| 50Hz        | 60Hz             | 100Hz              |
| 240Hz       | 400Hz            | 480Hz              |
| 800Hz       | 800Hz            | 960Hz              |

- Continuous taring;

| Basic PARAM   | 14/10/2024 17:28     | Technician                  |
|---------------|----------------------|-----------------------------|
| Zero CFG      | Remote Tare          | Negative Net Weight Correct |
| Tare Record   | Chain Tare           | Correct Tare                |
| Tare CFG      | Clear Tare Threshold | 9 d                         |
| STAB & T-Zero |                      |                             |
| FIR & Sample  |                      |                             |



# Formula Function

| Recipe Param          | 14/10/2024 17:23 | Operator                  |
|-----------------------|------------------|---------------------------|
| PRO ID                | 1                | PRO Name strawberry       |
| Tolerance Entry       | Deviation        | Target Value 5 g          |
| Upper Limit-Deviation | 5 g              | Lower Limit-Deviation 5 g |
| Preset Tare           | 5 g              |                           |

| Recipe selection | 14/10/2024 17:23 | Operator     |
|------------------|------------------|--------------|
| Recipe number    | PRO Name         | Target Value |
| No.1             | strawberry       | 200g         |
| No.2             | cherry           | 500g         |
| No.3             | bread            | 800g         |
| No.4             | apple            | 1000g        |
| No.5             | orange           | 500g         |
| No.6             | avocado          | 500g         |

- 50 formulas setting: each formula has a corresponding number, name, and supports three tolerance modes.

# History Record Function

- 4 million history records, including serial number, formula name, time, weighing result, target value, upper limit, lower limit.

| History Data | 14/10/2024 17:28 | Technician       |
|--------------|------------------|------------------|
| Number       | Recipe name      | Time             |
| 1            | strawberry       | 2024-10-14 15:02 |
| 2            | strawberry       | 2024-10-14 15:06 |
| 3            | strawberry       | 2024-10-14 15:08 |
| 4            | cherry           | 2024-10-14 16:12 |
| 5            | cherry           | 2024-10-14 16:19 |
| 6            | cherry           | 2024-10-14 16:27 |

Check history records by selecting the filter of time

| Select filtering method | 14/10/2024 17:23                      | Technician                          |
|-------------------------|---------------------------------------|-------------------------------------|
| Time Filter             | Filter Start Time 2024-10-14 15:02:00 | Filter End Time 2024-10-14 15:08:00 |
| PRO Name Filter         | PRO Name                              | strawberry                          |

Check history records by selecting the filter of product name

| Select filtering method | 14/10/2024 17:23                      | Technician                          |
|-------------------------|---------------------------------------|-------------------------------------|
| Time Filter             | Filter Start Time 2024-10-14 15:02:00 | Filter End Time 2024-10-14 15:08:00 |
| PRO Name Filter         | PRO Name                              | cherry                              |

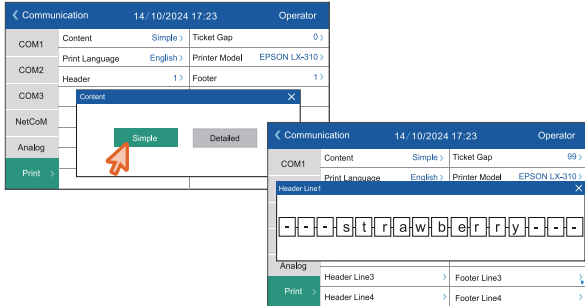
- USB for exporting the history data;

| History Data | 14/10/2024 17:38 | Operator         |
|--------------|------------------|------------------|
| Number       | Recipe name      | Time             |
| 1            | strawberry       | 2024-10-14 15:02 |
| 2            | strawberry       | 2024-10-14 15:06 |
| 3            | strawberry       | 2024-10-14 15:08 |
| 4            | cherry           | 2024-10-14 16:12 |
| 5            | cherry           | 2024-10-14 16:19 |
| 6            | cherry           | 2024-10-14 16:27 |



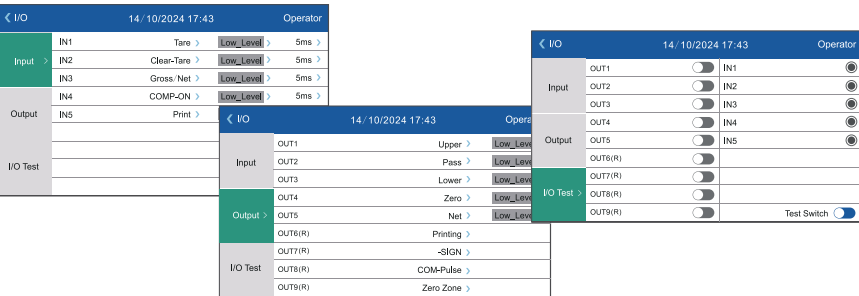
## Printing Function

- Support micro printer and EPSON serial printer, table head and foot is editable;  
Available for Chinese/English printing, simple/standard format printing;



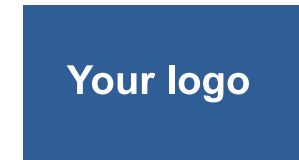
| Simple format    | Standard format  |
|------------------|------------------|
| ---strawberry--- | ---strawberry--- |
| Date 14/10/2024  | Date 14/10/2024  |
| Time 15:45:00    | Time 15:45:00    |
| TNO. 62          | TNO. 62          |
| Net +503 g       | Gross +503 g     |
|                  | Net +503 g       |
|                  | Tare +0 g        |
| Check HI         | Check HI         |
| Sum 10693 g      | Tareget +500 g   |
| Batches 44PCS    | Tol_H +3 g       |
|                  | Tol_L +3 g       |
|                  | Entry Deviation  |
|                  | Sum 10693 g      |
|                  | Batches 44PCS    |
| general-measure- | general-measure- |

## I/O Function



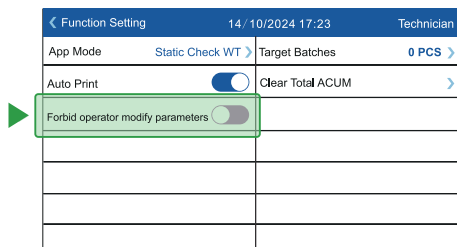
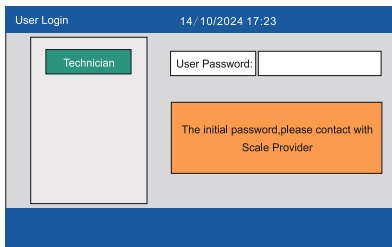
- Standard 5 inputs 5 outputs  
I/O ports, optional 4 relay outputs;
- Support I/O testing funtions;

## Boot Screen Function



## User Authority Function

- Two-level authority, support admin to manage operator behavior.

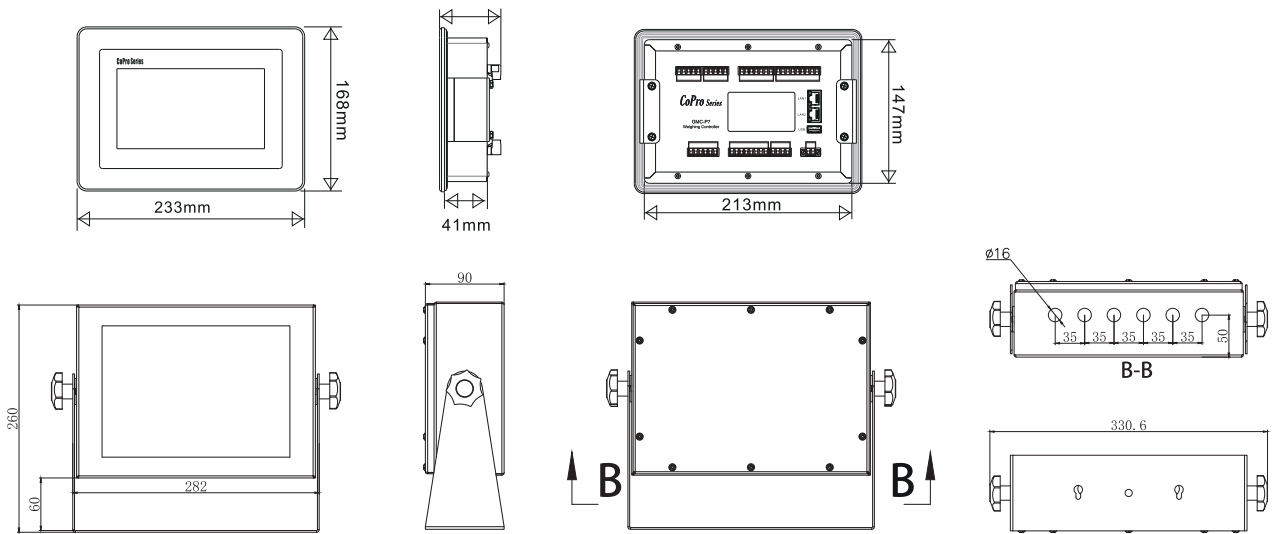


## Specifications

|                        | Model                | GMC-P7 F8                             | GMC-P7 F8 Digital Version |
|------------------------|----------------------|---------------------------------------|---------------------------|
| General Specifications | Power Supply         | DC 24V±5%                             |                           |
|                        | Working temperature  | -10°C~40°C                            |                           |
|                        | Maximum humidity     | 90% RH.without dew                    |                           |
|                        | Testing standards    | Class III 6000 e,1μV/d                |                           |
|                        | Power consumption    | About 15W                             |                           |
| Measurement Parameters | 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                       |
|                        | Input sensitivity    | 0.02μV/d                              | N/A                       |
|                        | 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      | 10MΩ                                  | N/A                       |
|                        | Zero steady range    | Maximum 0.002 ~ 15mV(Load Cell 3mV/V) | N/A                       |

## Dimension

Unit:mm



\*Specification and dimension may be upgraded,  
please consult sales manager for the latest info.



# GMC-P7(F8)

## Touch Screen Weighing Controller

(Manual Batching & Formulation)

The GMC-P7(F8) is a desktop high-precision manual batching controller equipped with a 7-inch touch screen. The intuitive touchscreen and the visual batching process make it clear and convenient to use. The upgraded weighing filtering algorithm and optimized A/D conversion speed ensure stable and efficient weighing.

## HARDWARE CONFIGURATION

### Standard:

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

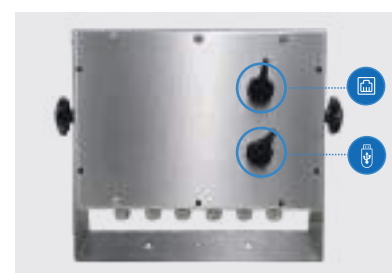


### Options:

- ☐ Modbus TCP;
  - ② 4 relay output;
- (Option ①② can be selected at the same time.)

## FEATURES & FUNCTIONS

- 7-inch touch screen, intuitive display, better interaction, easy operation;
- Stainless steel, front panel IP65, strong anti-interference;
- 10 recipes to switch;
- 1 million entries storage, USB for exporting data;
- Micro printer and EPSON serial printer is available, 3 different formats of printing contents;
- Standard 5 IN/5 OUT I/O ports;
- IO testing function and serial port testing function facilitate user debugging;
- The visual manual batching process is user-friendly;
- Automatic taring after startup;
- Multilevel user authority management(operator, Technician);
- Dual filtering function solves of data hopping;
- Boot screen customization.



## Manual Batching & Formulation

- Display style switching;
- Flexibly adapted to usage scenarios and operational requirements;
- Delivering a more efficient and user-friendly operation experience.



Underweight

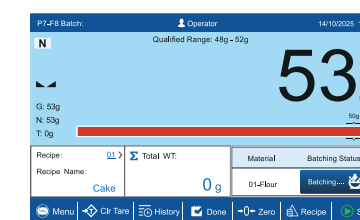
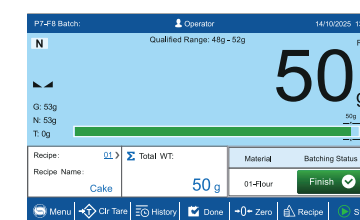
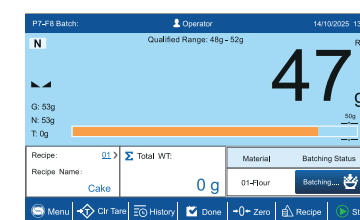


Qualified weight

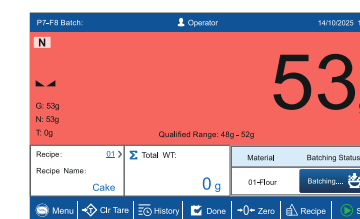
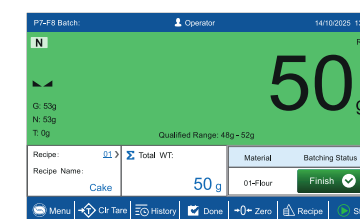
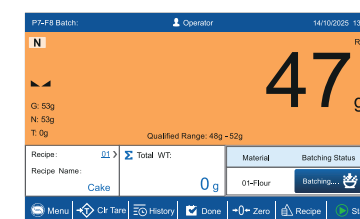


Overweight

- **Style 1**: progress bar indicates batching process

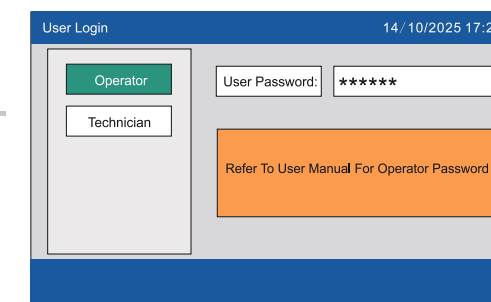


- **Style 2**: background color indicates results



## User Management

- **2-level authority**: operation and technician; Prevent operators from modifying parameters.



## Recipe Function

- 10 recipes, each recipe contains 20 materials, including target weight and tolerance.

< Recipe 14/10/2025 13:54 Technician

Recipe ID: 01 > Recipe Name: Cake > Tare Before Batching: ☐

Material Type: 20 >

|                          |                          |                          |                          |                          |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 01 N/A<br>H:0 T:0<br>L:0 | 02 N/A<br>H:0 T:0<br>L:0 | 03 N/A<br>H:0 T:0<br>L:0 | 04 N/A<br>H:0 T:0<br>L:0 | 05 N/A<br>H:0 T:0<br>L:0 |
| 06 N/A<br>H:0 T:0<br>L:0 | 07 N/A<br>H:0 T:0<br>L:0 | 08 N/A<br>H:0 T:0<br>L:0 | 09 N/A<br>H:0 T:0<br>L:0 | 10 N/A<br>H:0 T:0<br>L:0 |
| 11 N/A<br>H:0 T:0<br>L:0 | 12 N/A<br>H:0 T:0<br>L:0 | 13 N/A<br>H:0 T:0<br>L:0 | 14 N/A<br>H:0 T:0<br>L:0 | 15 N/A<br>H:0 T:0<br>L:0 |
| 16 N/A<br>H:0 T:0<br>L:0 | 17 N/A<br>H:0 T:0<br>L:0 | 18 N/A<br>H:0 T:0<br>L:0 | 19 N/A<br>H:0 T:0<br>L:0 | 20 N/A<br>H:0 T:0<br>L:0 |



- E.g. cake material:

1. Flour 50g
2. Egg 150g
3. Milk 35g
4. Sugar 45g

< Recipe 14/10/2025 13:54 Technician

Recipe ID: 01 > Recipe Name: Cake > Tare Before Batching: ☐

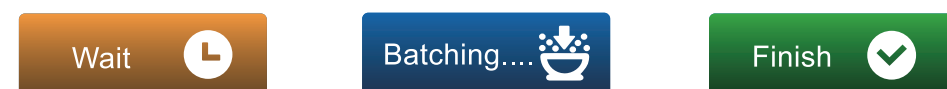
Material Type: 4 >

|                             |                            |                            |                             |
|-----------------------------|----------------------------|----------------------------|-----------------------------|
| 01 Flour<br>H:2 T:50<br>L:2 | 02 Egg<br>H:3 T:150<br>L:3 | 03 Milk<br>H:1 T:35<br>L:1 | 04 Sugar<br>H:2 T:45<br>L:2 |
|-----------------------------|----------------------------|----------------------------|-----------------------------|

## Manual Batching Process



- User-friendly batching process display and prompts.



## Report Function

< History Data 14/10/2025 17:38 Operator

| No. | Recipe ID | Recipe Name | Total WT | Tare | Net  | Start Time |
|-----|-----------|-------------|----------|------|------|------------|
| 1   | 1         | Cake        | 279g     | 80g  | 279g | 14/10/2025 |
| 2   | 1         | Cake        | 281g     | 80g  | 281g | 14/10/2025 |
| 3   | 1         | Cake        | 280g     | 80g  | 280g | 14/10/2025 |
| 4   |           |             |          |      |      |            |
| 5   |           |             |          |      |      |            |
| 6   |           |             |          |      |      |            |

U Disk Export Clear Data

- USB for exporting the history data.



- 1 million entries storage, including recipe ID, name and materials, weight, time, duration, upper limit and lower limit.

| MOSS TIME        | POS TIME | Recipe ID | Recipe Name | Total WT | Tare | Net   | Start Time | End Time | Total Time | Material No | Real WT | Target | Up Limit | Low Limit | Material No | Real WT | Target | Up Limit | Low Limit | Material No | Real WT | Target | Up Limit | Low Limit |
|------------------|----------|-----------|-------------|----------|------|-------|------------|----------|------------|-------------|---------|--------|----------|-----------|-------------|---------|--------|----------|-----------|-------------|---------|--------|----------|-----------|
| 2025/12/18 17:17 | 297      | 1         | Cake        | 279 g    | 80 g | 279 g | 17:17:19   | 17:17:51 | 34 s       | Flour       | 49 g    | 50 g   | 2 g      | 2 g       | Egg         | 150 g   | 150 g  | 3 g      | 3 g       | Milk        | 35 g    | 35 g   | 1 g      | 1 g       |
| 2025/12/18 17:26 | 617      | 1         | Cake        | 281 g    | 80 g | 281 g | 17:26:15   | 17:26:52 | 37 s       | Flour       | 51 g    | 50 g   | 2 g      | 2 g       | Egg         | 150 g   | 150 g  | 3 g      | 3 g       | Milk        | 35 g    | 35 g   | 1 g      | 1 g       |
| 2025/12/18 17:38 | 799      | 1         | Cake        | 280 g    | 80 g | 280 g | 17:37:54   | 17:38:25 | 31 s       | Flour       | 50 g    | 50 g   | 2 g      | 2 g       | Egg         | 150 g   | 150 g  | 3 g      | 3 g       | Milk        | 35 g    | 35 g   | 1 g      | 1 g       |

## Printing Function

- Support micro printer and EPSON serial printer;
- Available for Chinese/English printing;
- standard / simple1 / simple2

3 different formats of printing contents;

< Peripherals 14/10/2025 13:54 Technician

Content Simple 1 > Ticket Gap 0 >

Print Language English > Printer Model EPSON LX-310 >

Content

Simple1 Simple2 Detail



| Simple 1                                                                                                                                             | Simple 2                                                                                                                                                                                                                                                                                                                                                                                                                                        | Standard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Recipe name Cake</p> <p>Tgt. value +280 g</p> <p>Act. value +280 g</p> <p>Net weight +280 g</p> <p>Gross weight +360 g</p> <p>Date 14/10/2025</p> | <p>Recipe name Cake</p> <p>Tgt. value +280 g</p> <p>Act. value +280 g</p> <p>Net weight +280 g</p> <p>Gross weight +360 g</p> <p>Date 14/10/2025</p> <p>Material1 Flour</p> <p>Tgt. value +50 g</p> <p>Act. value +50 g</p> <p>Material2 Egg</p> <p>Tgt. value +150 g</p> <p>Act. value +150 g</p> <p>Material3 Milk</p> <p>Tgt. value +35 g</p> <p>Act. value +35 g</p> <p>Material4 Sugar</p> <p>Tgt. value +45 g</p> <p>Act. value +45 g</p> | <p>Recipe name Cake</p> <p>Tgt. value +280 g</p> <p>Act. value +280 g</p> <p>Net weight +280 g</p> <p>Gross weight +360 g</p> <p>Date 14/10/2025</p> <p>Start time 17:37:54</p> <p>Final time 17:38:25</p> <p>Spent 31s</p> <p>Material1 Flour</p> <p>Tgt. value +50 g</p> <p>Act. value +50 g</p> <p>Material2 Egg</p> <p>Tgt. value +150 g</p> <p>Act. value +150 g</p> <p>Material3 Milk</p> <p>Tgt. value +35 g</p> <p>Act. value +35 g</p> <p>Material4 Sugar</p> <p>Tgt. value +45 g</p> <p>Act. value +45 g</p> |



## I/O Function

| < I/O    |         | 14/10/2025 13:54<br>Technician |
|----------|---------|--------------------------------|
| Input    | IN1     | Zero > Low_Level > 5ms >       |
|          | IN2     | Print > Low_Level > 5ms >      |
|          | IN3     | Feed Paper > Low_Level > 5ms > |
|          | IN4     | Start > Low_Level > 5ms >      |
|          | IN5     | Stop > Low_Level > 5ms >       |
| Output   | OUT1    | Stable > Low_Level >           |
|          | OUT2    | Zero > Low_Level >             |
| I/O Test | OUT3    | Net > Low_Level >              |
|          | OUT4    | Batching > Low_Level >         |
|          | OUT5    | Over > Low_Level >             |
|          | OUT6(R) | Pass >                         |
|          | OUT7(R) | Under >                        |
| I/O Test | OUT8(R) | Material Done >                |
|          | OUT9(R) | Batch Complete                 |

- Standard 5 inputs 5 outputs I/O ,
- Support I/O testing funtions;
- optional 4 relay outputs;

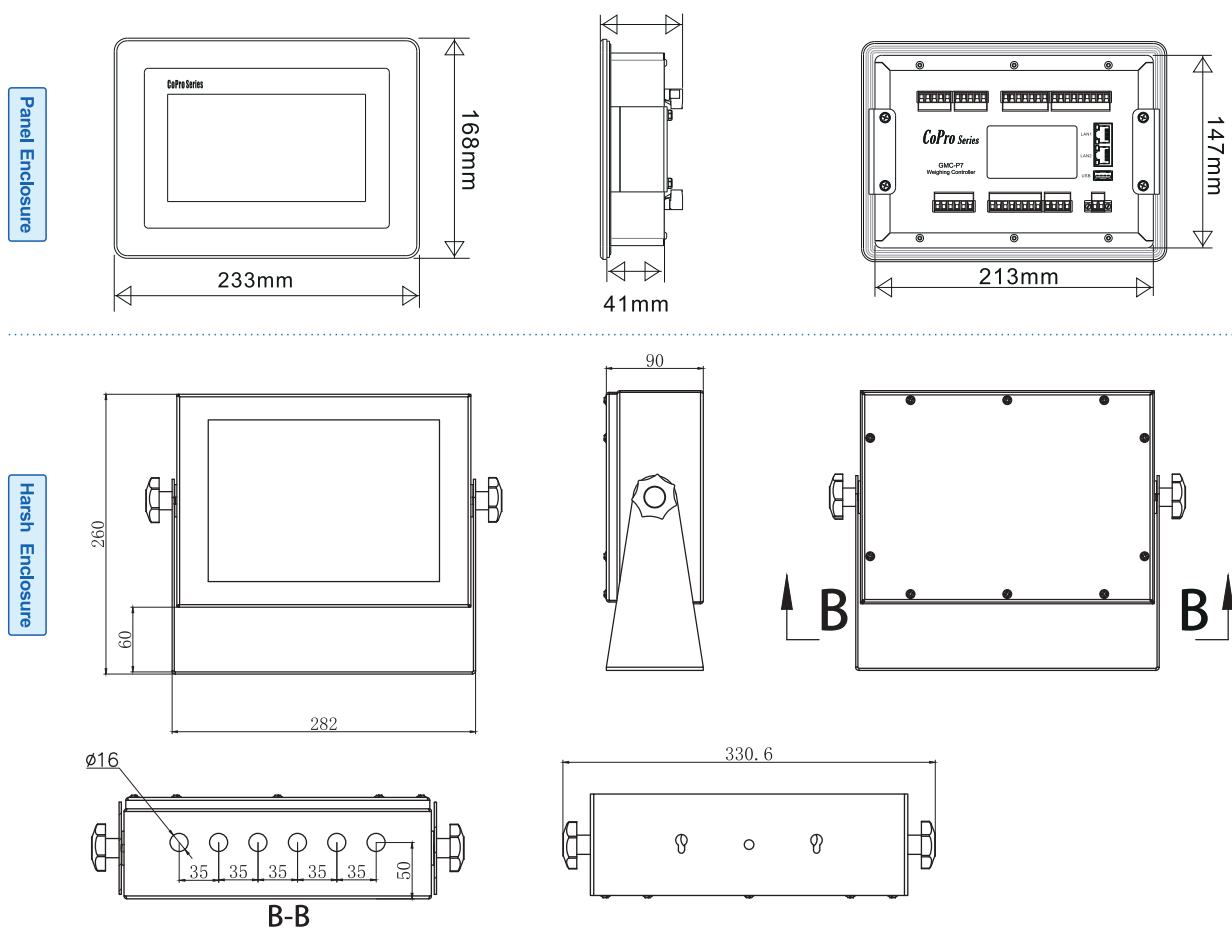
## Boot Screen Function

- 7-inch touch color screen:**  
High definition interface  
visualization operation,  
supporting custom startup logo.



## Dimension

Unit:mm



## Standard Specification

|                        |                      |                                                  |
|------------------------|----------------------|--------------------------------------------------|
| General Specifications | Model                | <b>GMC-P7 F8</b> (Manual Batching & Formulation) |
|                        | Power Supply         | DC 24V±5%                                        |
|                        | Working temperature  | -10°C~40°C                                       |
|                        | Maximum humidity     | 90% RH.without dew                               |
|                        | Testing standards    | Class III 6000 e,1μV/d                           |
|                        | Power consumption    | About 15W                                        |
| Measurement Parameters | A/D performance      | 24 bit Delta-Sigma                               |
|                        | A/D conversion speed | 50~960 times/per second                          |
|                        | Non-linearity        | 0.01%F.S                                         |
|                        | Gain drift           | 10PPM/C                                          |
|                        | Input sensitivity    | 0.02μV/d                                         |
|                        | Input range          | 0.02~15mV                                        |
|                        | Display Accuracy     | 1/100,000                                        |
|                        | Sensor power supply  | DC 5V 125mA(Max)                                 |
|                        | Input impedance      | 10MΩ                                             |
|                        | Zero steady range    | Maximum 0.002 ~ 15mV(Load Cell 3mV/V)            |

## Application



Weighing scale



- Available for simple manual batching.
- Available to connect external devices.

Printer



# GM9907-L2/LD

## Packing Controller

(L2:Simplex Packing LD:Duplex Packing)



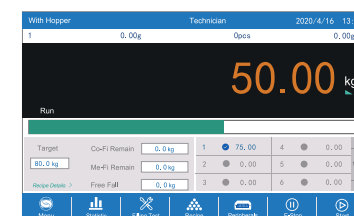
GM9907-L2/LD is the simplex/duplex packing controller , widely used for, granule packing scale, powder packing scale, big bag, valve type scale-cement, etc.



### Version Features

#### User-Friendly · Better Experience

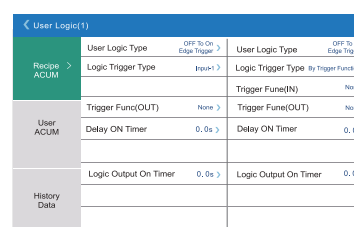
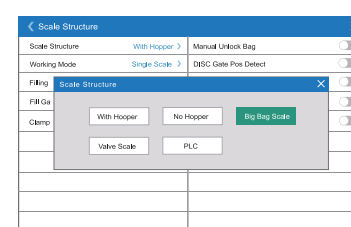
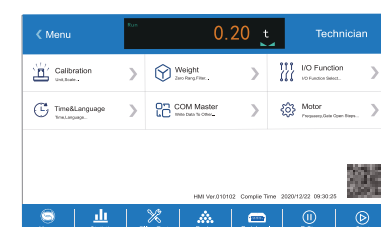
- Memory card build in, 7-inch touch screen for displaying clearly and operating easily, Single/double scale interface mode switching;



- **L2:** Simplex packing; **LD:** Duplex packing; can be choosed, interface displayed accordingly;

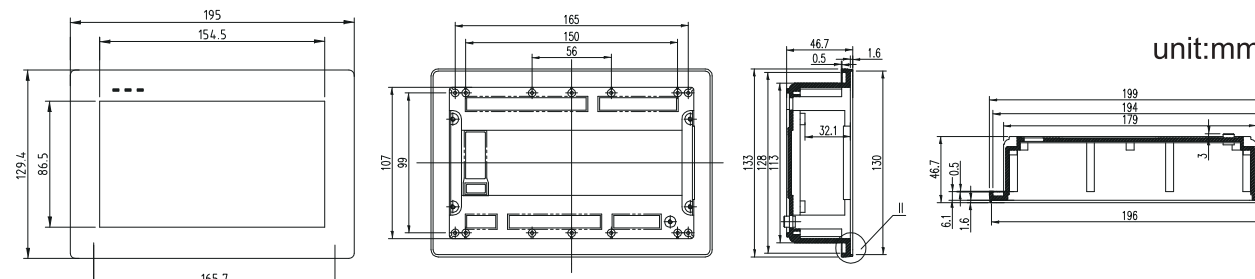
- Multi-Mode: With Hopper, No Hopper, Big Bag Scale,Valve Scale,PLC;

- Self-Adaptive: I/O Programmable;



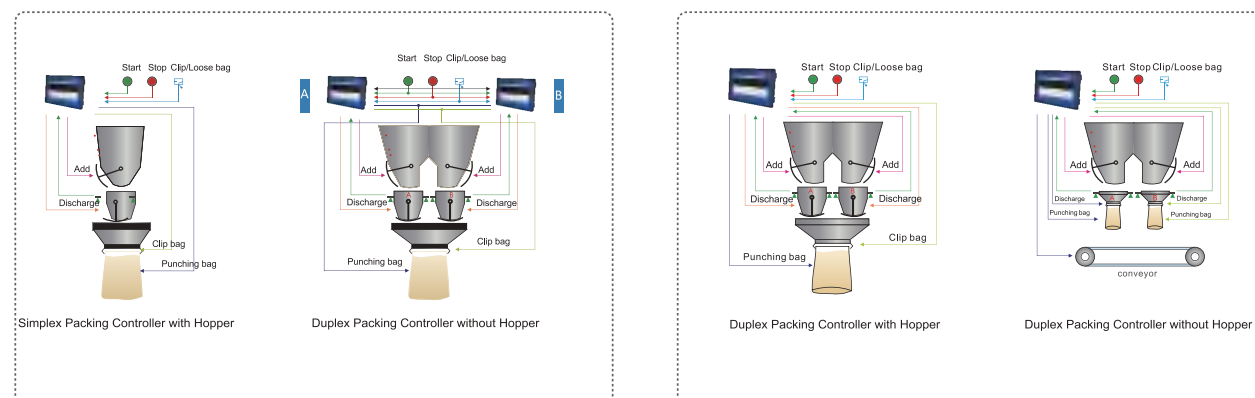
### Specifications

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



\*Specification and dimension may be upgraded, please consult sales manager for the latest info.

### Application



GM9907-L2

GM9907-LD

### 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

- For starting,stopping, feeding, unloading, clamping/loosening bags,etc;

#### Modbus TCP

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



# GM9907-L4

## Reduce weight method Packing Controller



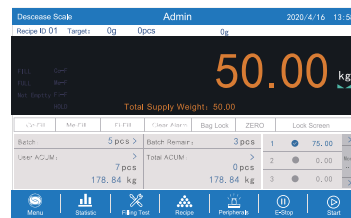
GM9907-L4 is designed for Loss-in-weightItt bagging machine. It can be widely used in rice, grains, feeds, chemical industries etc.



### Version Features

#### User-Friendly · Better Experience

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



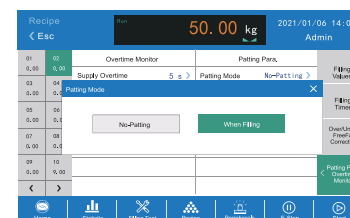
- It can store 20 groups of recipes, 9 groups of users accumulation data;



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



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



### 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

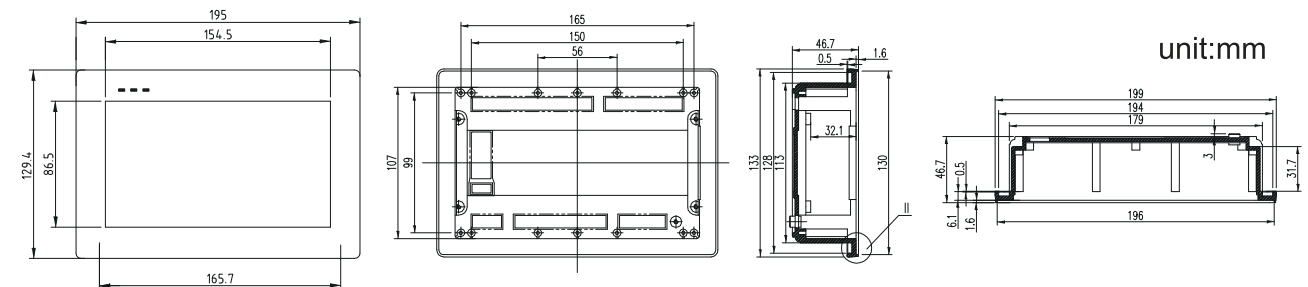
- For starting,stopping, feeding, unloading, clamping/loosening bags,etc;

#### Modbus TCP

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

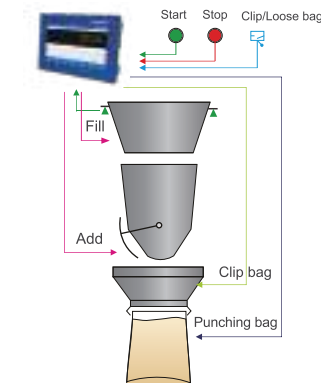
### Specifications

|                                   |                                                                                                                                                                   |                             |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| General Specifications            | Model                                                                                                                                                             | GM9907-L4                   |
|                                   | Power Supply                                                                                                                                                      | DC24V                       |
|                                   | Operating Temperature                                                                                                                                             | -10~40℃                     |
|                                   | Maximum Humidity                                                                                                                                                  | 90%R.H without dew          |
|                                   | Test Standard                                                                                                                                                     | ClassIII 6000 e, 1 μV/e     |
|                                   | Power Consume                                                                                                                                                     | About 15W                   |
| Weighing Parameters               | A/D Converter type                                                                                                                                                | 24 bit Sigma-Delta          |
|                                   | A/D Conversion Rate                                                                                                                                               | 120/240/480/960 times /sec  |
|                                   | Non-Linear                                                                                                                                                        | 0.01%F.S                    |
|                                   | Gain Drifting                                                                                                                                                     | 10PPM/℃                     |
|                                   | 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                                                                                                                                                  | 10MΩ                        |
| I/O Interfaces and Communications | Zero Point Adjustment Range                                                                                                                                       | 0.002~15mV(load cell 3mV/V) |
|                                   | 12 Input 16 Output, I/O Selectable                                                                                                                                |                             |
|                                   | 12 Input, Active-low                                                                                                                                              |                             |
|                                   | Start, Emergency stop, Stop, Zeroing, Clear alarm, Change recipe, Bag Lock/Unlock, Manual discharge, Manual fine flow, Manual coarse flow, Clear total ACUM. etc. |                             |
|                                   | 16 Output, Single drive current 500mA                                                                                                                             |                             |
|                                   | Run, Stopped, Coarse flow, Medium flow, Fine flow, Bag lock, Result waiting, Pat bag, FILL,Batch complete, Supply full, Pause, etc.                               |                             |



\*Specification and dimension may be upgraded, please consult sales manager for the latest info.

### Application



Reduce weight method packing

# GM9907-L5

## Bulk Scale Controller

(Continuous Weighing)



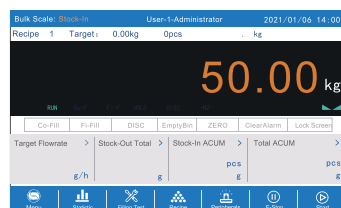
GM9907-L5 is designed for bulk scale to solve the problem of batch weight and automatic totalizing of incoming and outgoing material. it can be used widely used in chemical, grain, feeds. construction and harbor logistics industries etc.



### Version Features

#### User-Friendly · Better Experience

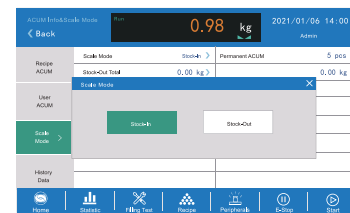
- Memory card build in, 7-inch touch screen for displaying clearly and operating easily;



- 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;

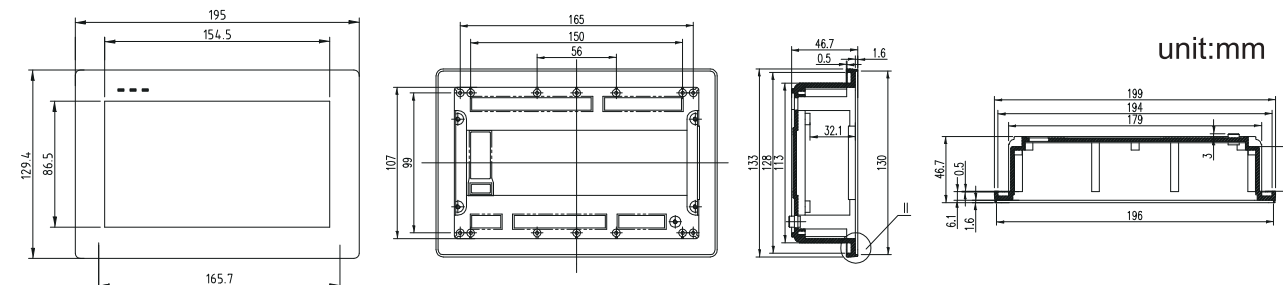


- Two packing mode: Motor or Pneumatic; Add/Discharge feed is more convenient;



### Specifications

|                                   |                                                                                                                                                                      |                             |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| General Specifications            | Model                                                                                                                                                                | GM9907-L5                   |
|                                   | Power Supply                                                                                                                                                         | DC24V                       |
|                                   | Operating Temperature                                                                                                                                                | -10~40°C                    |
|                                   | Maximum Humidity                                                                                                                                                     | 90%R.H without dew          |
|                                   | Test Standard                                                                                                                                                        | ClassIII 6000 e, 1 μV/e     |
|                                   | Power Consume                                                                                                                                                        | About 15W                   |
| Weighing Parameters               | A/D Converter type                                                                                                                                                   | 24 bit Sigma-Delta          |
|                                   | A/D Conversion Rate                                                                                                                                                  | 120/240/480/960 times /sec  |
|                                   | 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)             |
| I/O Interfaces and Communications | Input Resistance                                                                                                                                                     | 10MΩ                        |
|                                   | Zero Point Adjustment Range                                                                                                                                          | 0.002~15mV(load cell 3mV/V) |
|                                   | 12 Input 16 Output, I/O Selectable                                                                                                                                   |                             |
|                                   | 12 Input, Active-low<br>Start, Emergency stop, Stop, Zeroing, Clear alarm, Fill permission, Clogged, Manual fine flow, etc.                                          |                             |
|                                   | 16 Output, Single drive current 500mA<br>Run, Stopped, Clogged, Coarse flow, Fine flow, Result waiing, Over/under, Alarm, Stock-out Done, Last feed, Disc, -Nz-, etc |                             |



\*Specification and dimension may be upgraded, please consult sales manager for the latest info.

### Application

#### Communication

##### RS485+RS232

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

##### USB

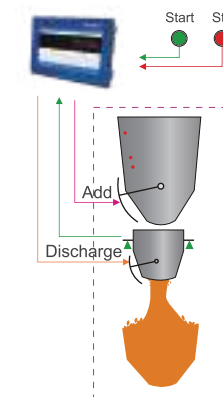
- For importing and exporting recipes, works, I/O function communication and other parameters, upgrading system software, customizing boot screen, etc;

##### 12 Input / 16 Output

- For starting, stopping, feeding, unloading, clamping/loosening bags, etc;

##### Modbus TCP

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



Continuous Weighing



# GM9907-L6/L6D

## Liquid Filling Controller



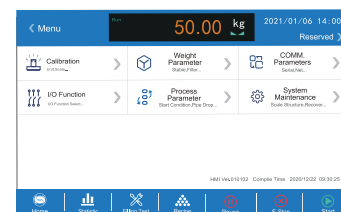
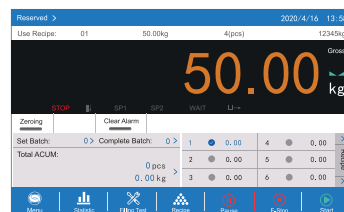
GM9907-L6/L6D is designed for single/double nozzle liquid filing applications. It can widely used in food&beverage, chemical, coating industries and so on.



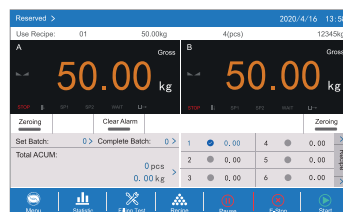
### Version Features

#### User-Friendly · Better Experience

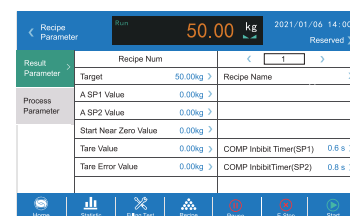
- Memory card build in, 7-inch touch screen for displaying clearly and operating easily;



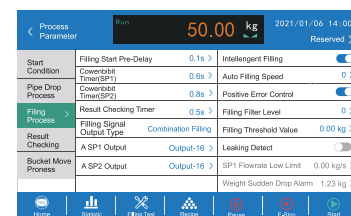
- L6/L6D single or double nozzle liquid filling applications can be chosen. UI changed accordingly.



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

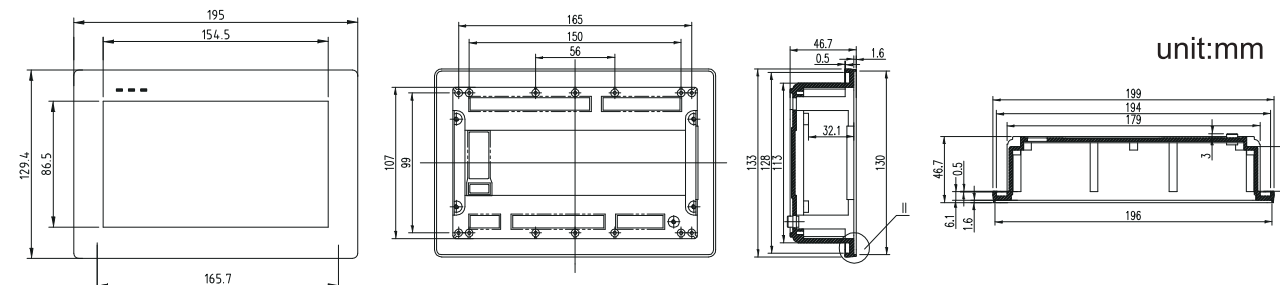


- Automatic 2-filling speed, feed control function, easy to connect with front-end equipment.



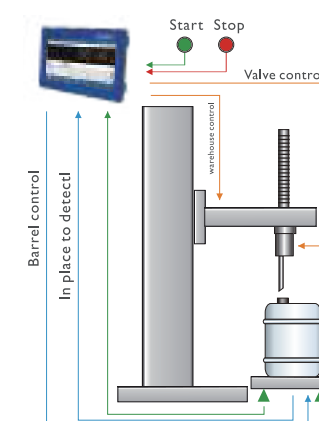
### Specifications

|                                   |                                                                                                                                                                               |                             |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| General Specifications            | Model                                                                                                                                                                         | GM9907-L6/L6D               |
|                                   | Power Supply                                                                                                                                                                  | DC24V                       |
|                                   | Operating Temperature                                                                                                                                                         | -10~40℃                     |
|                                   | Maximum Humidity                                                                                                                                                              | 90%R.H without dew          |
|                                   | Test Standard                                                                                                                                                                 | ClassIII 6000 e, 1 μV/e     |
|                                   | Power Consume                                                                                                                                                                 | About 15W                   |
| Weighing Parameters               | A/D Converter type                                                                                                                                                            | 24 bit Sigma-Delta          |
|                                   | A/D Conversion Rate                                                                                                                                                           | 120/240/480/960 times /sec  |
|                                   | Non-Linear                                                                                                                                                                    | 0.01%F.S                    |
|                                   | Gain Drifting                                                                                                                                                                 | 10PPM/℃                     |
|                                   | Minimum Sensitivity                                                                                                                                                           | 0.02μV/d                    |
|                                   | Analog Input Range                                                                                                                                                            | 0.02~15mV                   |
|                                   | Display Accuracy                                                                                                                                                              | 1/100,000                   |
|                                   | Power Source for Load Cell                                                                                                                                                    | DC5V 125mA(MAX)             |
| I/O Interfaces and Communications | Input Resistance                                                                                                                                                              | 10MΩ                        |
|                                   | Zero Point Adjustment Range                                                                                                                                                   | 0.002~15mV(load cell 3mV/V) |
|                                   | 12 Input, Active-low<br>Start, Emergency stop, Zeroing, Clear alarm, Switch formula, Dropping/lifting nozzle, feeding, etc                                                    |                             |
|                                   | 16 Output, Single drive current 500mA<br>Run, Stop, Fast feeding, Slow feeding, Constant value, Over/Under weight, Alarm, Move barrel, dropping nozzle, Batching finish, etc. |                             |

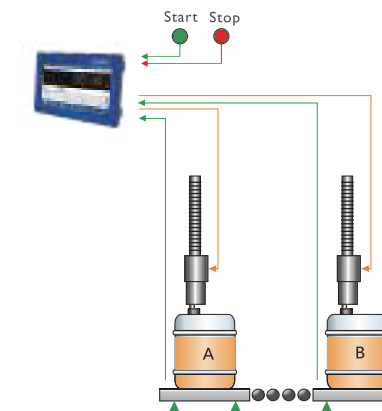


\*Specification and dimension may be upgraded, please consult sales manager for the latest info.

### Application



Single Nozzle for Liquid Filling Application



Double Nozzle for Liquid Filling Application

### 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.

#### Modbus TCP

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

# GM9907-LB

## Batching Scale Controller

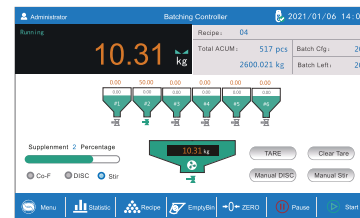
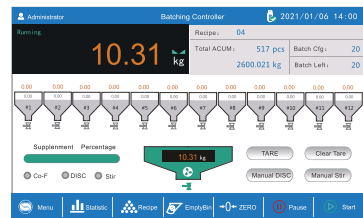


GM9907-LB is designed for batching scale that can sort feeding orders of a variety of materials. It can be widely used in concrete mixing, bituminous mixing, metallurgy, chemical, feeds industries etc.

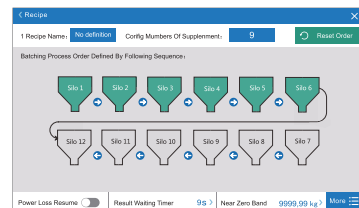
### Version Features

#### User-Friendly · Better Experience

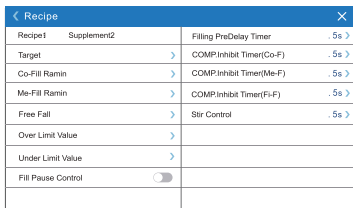
- Memory card build in, Dynamic batching process can be graphically displayed for better understanding and monitoring.



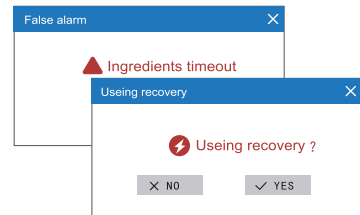
- Support the batching of 12 kinds of materials. It can be customized according to the batching process sequence, which is flexible to use;



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

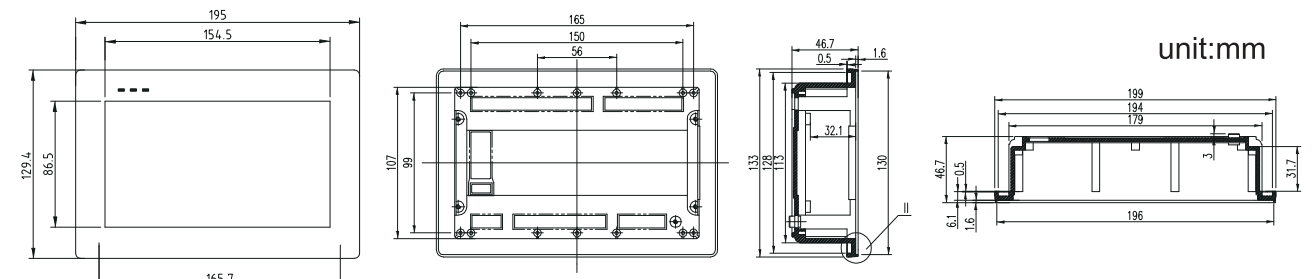


- User-friendly design: Save function when power down and monitoring alarm function;



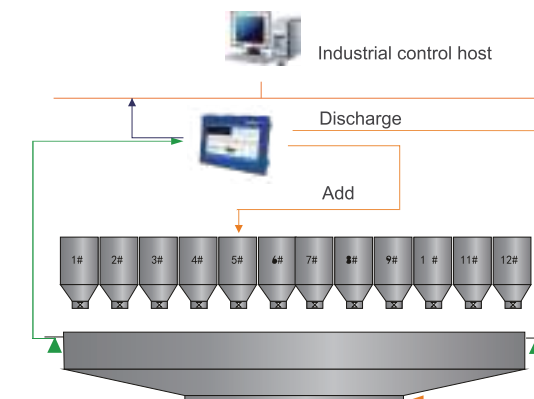
### Specifications

|                                   |                                                                                                                                                       |                             |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| General Specifications            | Model                                                                                                                                                 | GM9907-LB                   |
|                                   | Power Supply                                                                                                                                          | DC24V                       |
|                                   | Operating Temperature                                                                                                                                 | -10~40℃                     |
|                                   | Maximum Humidity                                                                                                                                      | 90%R.H without dew          |
|                                   | Test Standard                                                                                                                                         | ClassIII 6000 e, 1 μV/e     |
|                                   | Power Consume                                                                                                                                         | About 15W                   |
| Weighing Parameters               | A/D Converter type                                                                                                                                    | 24 bit Sigma-Delta          |
|                                   | A/D Conversion Rate                                                                                                                                   | 120/240/480/960 times /sec  |
|                                   | Non-Linear                                                                                                                                            | 0.01%F.S                    |
|                                   | Gain Drifting                                                                                                                                         | 10PPM/℃                     |
|                                   | 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                                                                                                                                      | 10MΩ                        |
| I/O Interfaces and Communications | Zero Point Adjustment Range                                                                                                                           | 0.002~15mV(load cell 3mV/V) |
|                                   | 12 Input 16 Output, I/O Selectable                                                                                                                    |                             |
|                                   | 12 Input, Active-low<br>Start, Emergency stop, Stop, Pause, ZERO, Clear alarm, Change recipe, M-DISC permission, TARE, Clear tare, Manual stir, etc.  |                             |
|                                   | 16 Output, Single drive current 500mA<br>Run, Stopped, Coarse flow, Medium flow, Fine flow, Result waiting, Over/under, DISC, -NZ-, Alarm, Stir, etc. |                             |



\*Specification and dimension may be upgraded, please consult sales manager for the latest info.

### Application



Batching, up to 12 materials

### 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

- For starting, stopping, feeding, unloading, clamping/loosening bags, etc;

#### Modbus TCP

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



# 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 170 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



## 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.



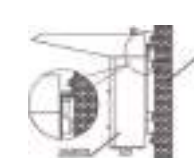
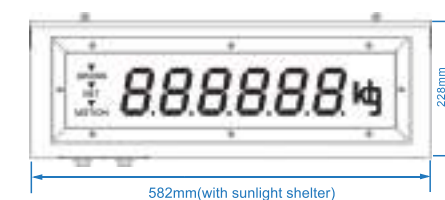
## Standard Specification

| 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°C to 70°C                                   | -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(Optional) |                                        |
| INDICATOR SUPPORTED                                                                               |                                                 |                                        |
| AD-4321, AD-4323, TOLEDO&Fairbanks, R2500, UMC600, GSE50 serial, Rinstrum, WI-125, WI-127, DF1500 |                                                 |                                        |

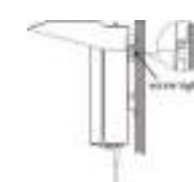
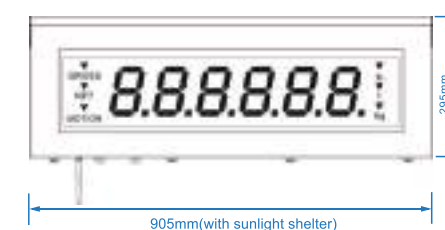
## Dimensions

Unit:mm

### GM8892



### GM8895



\*Specification and dimension may be upgraded, please consult sales manager for the latest info.

# GM-JX-M

## GM Load Cell Junction Box



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

### Terminal identification

- GM-JX-M can connect with the analog or digital load cell.

①When applying to the analog load cell:

- EX+: EXCITATION +
- EX-: EXCITATION -
- SIG+: SIGNAL +
- SIG-: SIGNAL -
- SHLD: SHIELD

(When the load cell is six-wire, short-circuit the +excitation and +sense to EX+, short-circuit the -excitation and -sense to EX-.)

②When applying to the digital load cell:

- 12V+: EXCITATION +
- 12V-: EXCITATION -
- A: SIGNAL A
- B: SIGNAL B
- SHLD: SHIELD



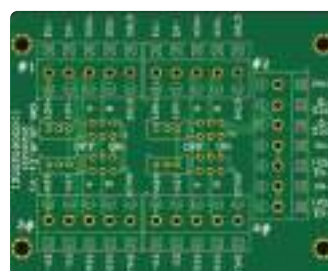
### Adjustment Method

①Switches SW1-SW4 can be assigned to control the on-off of each load cell for single-channel load cell adjustment.

②Potentiometer R1-R4 can fine-tune the output signal of each load cell respectively for adjustment of the four corners of the load cell.

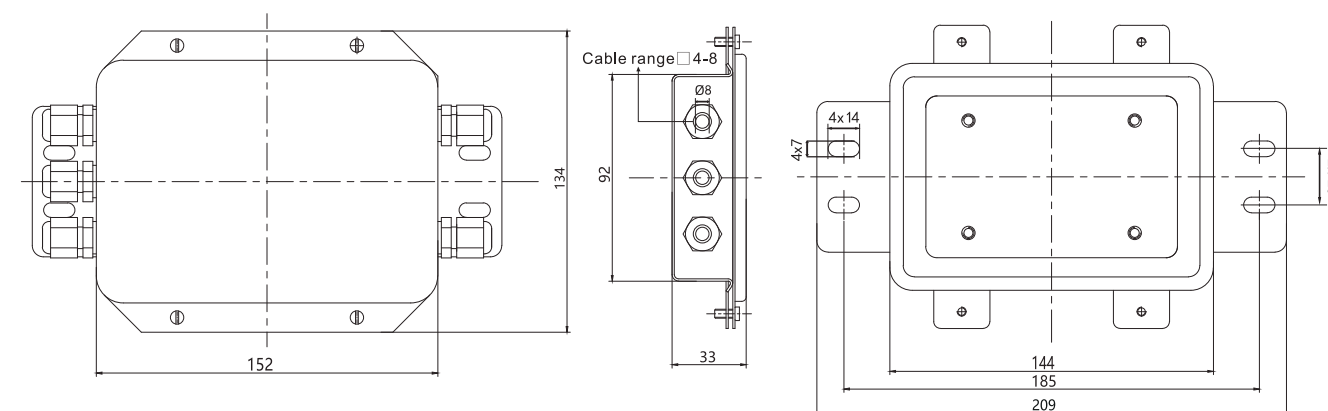
### Four-Angle Deviation Adjustment Method

- 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.



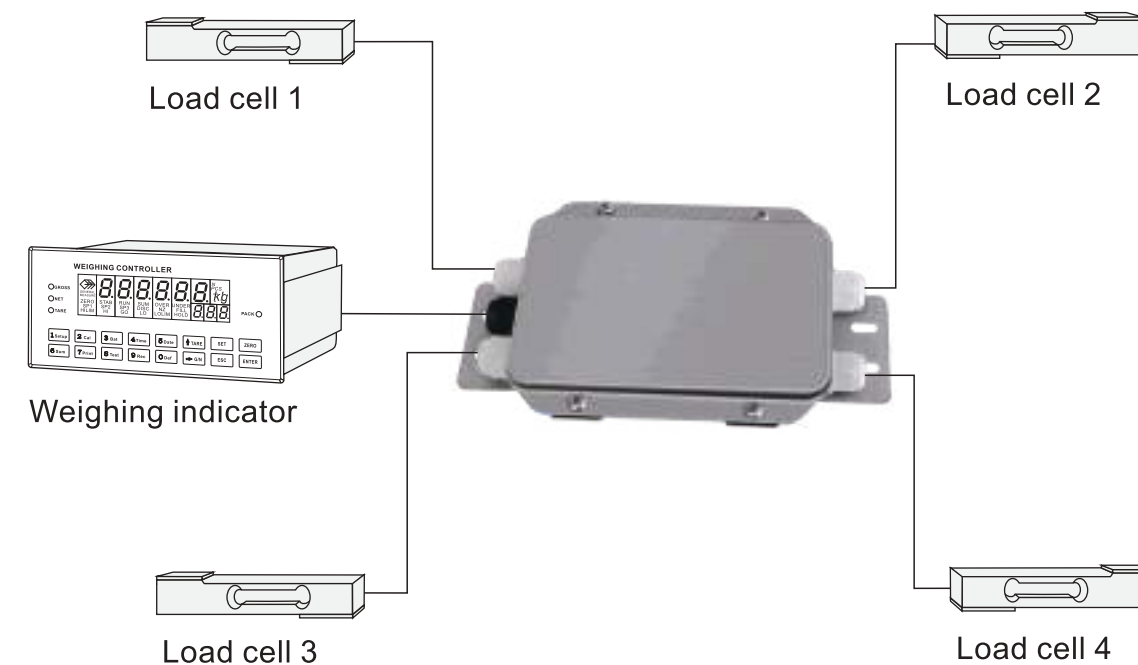
## Dimensions

Unit:mm



\*Specification and dimension may be upgraded, please consult sales manager for the latest info.

## Connection Diagram





# GMA-JB4-Ex

## Intrinsic Safety Explosion-proof Junction Box



GMA-JB4-Ex is an intrinsic safety explosion-proof junction box that supports connections for 4 analog or digital load cell in 4-wire. By adjusting the resistance value of the potentiometer, it compensates for angle deviations, effectively resolving inaccurate weight results caused by angle differences in weighing applications. Stainless steel housing with 5 explosion-proof cable glands(BDM-II G1/2)(Ex Marking: Ex db IIC Gb, IP Rating: IP66) . Applicable cable outer diameter:  $\phi 5-12\text{mm}$ , delivers enhanced protection and superior anti-interference performance. Certified for intrinsic safety explosion-proof standards, it is ideal for deployment in hazardous environments.

● Ex marking: Ex ia IIC T4 Ga ● IP Rating: IP65



## OPERATING INSTRUCTION

### Terminal identification

● GMA-JB4-Ex can connect with the analog or digital load cell.

①When applying to the analog load cell:

- EX+: EXCITATION +
- EX-: EXCITATION -
- SIG+: SIGNAL +
- SIG-: SIGNAL -
- SHLD: SHIELD

(When the load cell is six-wire, short-circuit the +excitation and +sense to EX+, short-circuit the -excitation and -sense to EX- .)

②When applying to the digital load cell:

- 12V+: EXCITATION +
- 12V-: EXCITATION -
- SHLD: SHIELD
- A: SIGNAL A
- B: SIGNAL B

### Adjustment Method

①Switches SW1-SW4 can be assigned to control the on-off of each load cell for single-channel load cell adjustment.

②Potentiometer R1-R4 can fine-tune the output signal of each load cell respectively for adjustment of the four corners of the load cell.

### Four-Angle Deviation Adjustment Method

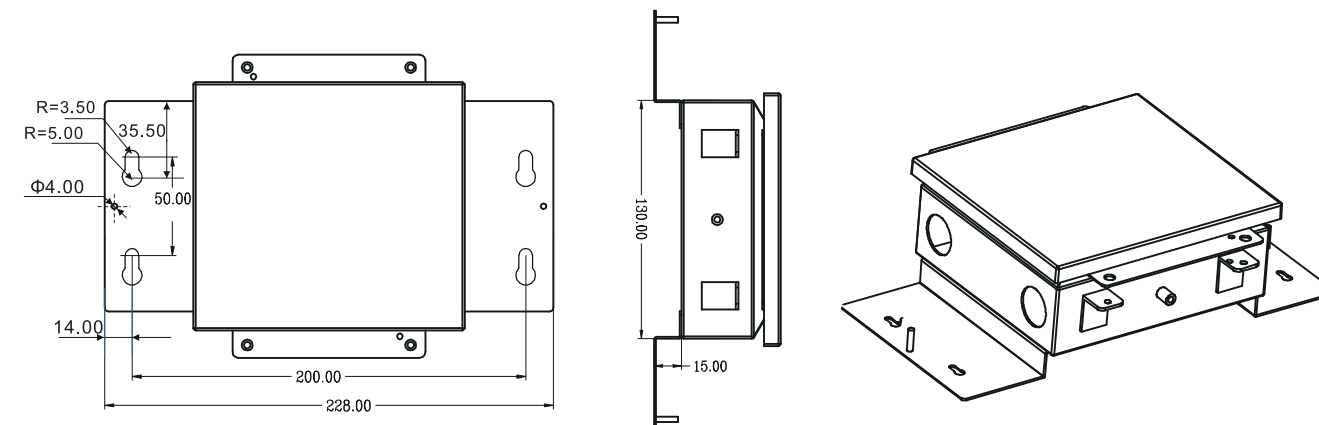
- **Step 1:** Before adjustment, the four-channel potentiometer is gently rotated to the middle position;
- **Step 2:** Fine-tune the channel with large deviation to the average value (close the other three channels when observing one channel);
- **Step 3:** Repeat step 2 until the millivolt signals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



## Dimensions

Unit:mm

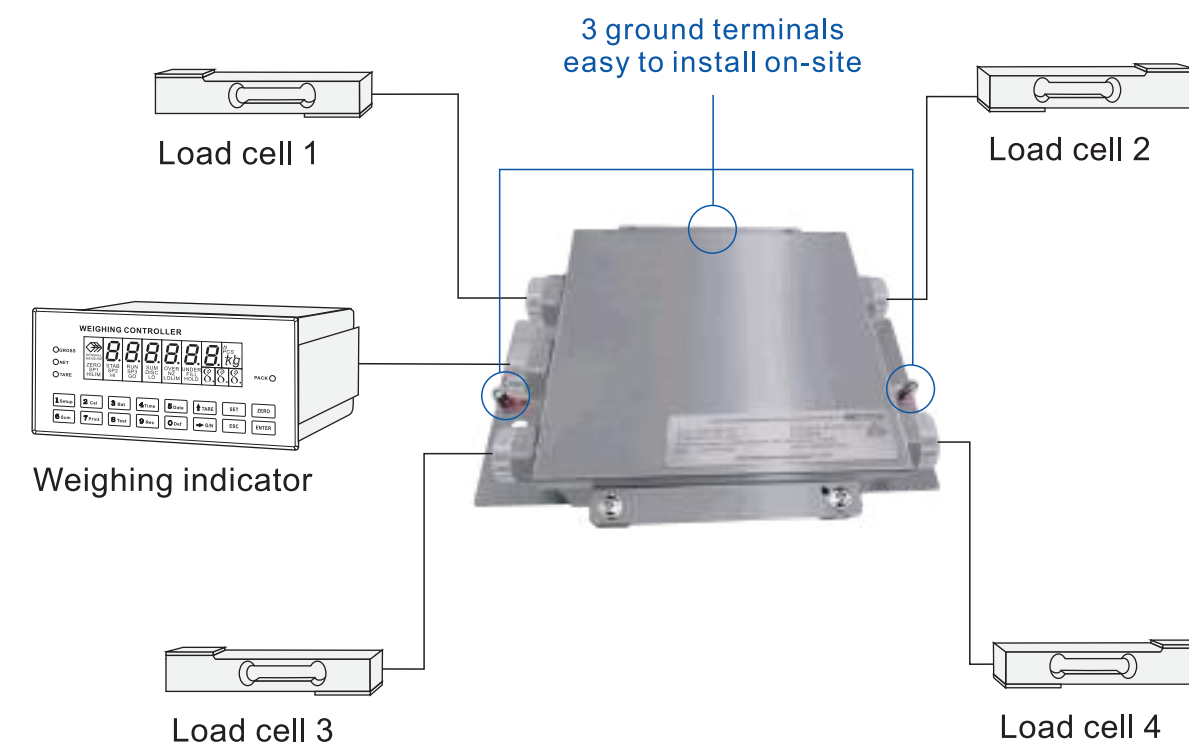
\*Cable diameters of waterproof connectors.:  $\phi 5-12\text{mm}$



\*Specification and dimension may be upgraded, please consult sales manager for the latest info.

## Connection Diagram

Unit:mm



# Global layout:

Multiple certifications help our products reach global markets



## Market Reach

Products exported to over 50 countries and regions, recognized by industry-leading customers worldwide.

# Service Capabilities:



## 30+years of weighing expertise

Providing professional solutions across diverse industries.



## Professional service support

Including training, maintenance, new-product onboarding, and remote assistance.



## Custom design services

Offering **OEM** solutions such as labels, appearance customization, and multilingual interface development.

# Corporate Culture:



## STRATEGIC VISION

To be a respectable and sustainable enterprise for serving the global by intelligent weighing products and solution.



## MISSION

Combining cutting-edge technology to disrupting the industry status-quo, making weighing more accessible.



## VALUE



Listening



Innovating



Growing Together