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GENERAL MEASURE
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Weighing Instrument Selection Manual

GENERAL MEASURE

General Measure Technology Co.,Ltd.

Address: Room2208, Block A, Building 6, Shenzhen International Innovation Valley,
Nanshan District, Shenzhen, Guangdong Province, P.R.China.
Tel/Wechat/Whatsapp : +86 185 6585 5789
E-mail: xjlv@szgmt.com
Website: www.gmweighing.com

ENTERPRISE PROFILE

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

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

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

30+ years Industry Experience

50+ Country Sales

200+ R&D Patents

2000+ 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

Making weighing more accessible.

2000+ Global Clients

ZOOMLION · prompt We Promise. We Deliver. · CONCH · DIGITAL SCALE
CATL · muyuan牧原 · PESAR · 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.

OIML CE

SOFTWARE HIGHLIGHTS

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

HARDWARE HIGHLIGHTS

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

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

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

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.

Digital Version

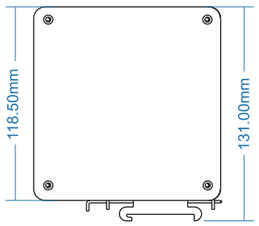
Standard:
- RS232 or RS485 selectable;
- RS485 for digital loadcell interface;

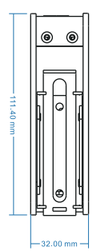
Options:
Same as common version;

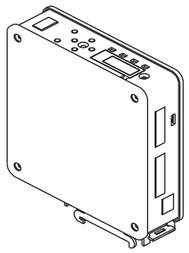
EtherCAT CC-Link IE CANopen PROFINET EtherNet/IP Modbus TCP/IP PROFIBUS RS485/RS232

Standard Specification

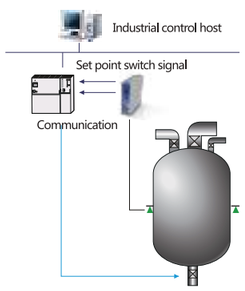
	Model	GMT-X1	GMT-X1 Digital Version
General Specifications	Power Supply	DC 24V(12~30VDC)	
	Working temperature	-10°C~40°C	
	Maximum humidity	90% RH.without dew	
	Testing standards	Class III 6000 e, 1μV/e	
	Power consumption	About 5W	
Measurement Parameters	A/D performance	24 bit Delta-Sigma	N/A
	A/D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



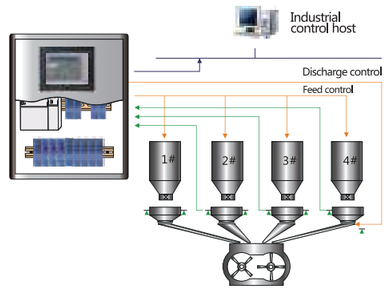




Application



Set point weighing application



Multi-material batching application

GMT-X4

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 HIGHLIGHT

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

Option1 Modbus TCP /IP or EtherNet/IP or ProfiNet or EtherCat or CCLink IE;

Option2 4-channel analog output;

Option3 CAN communication;

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

SOFTWARE HIGHLIGHT

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

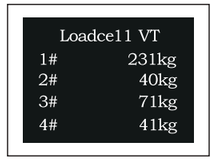
GMT-X4

Weighing Transmitter (Intelligent Junction box)

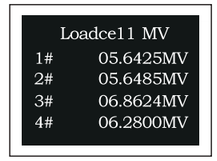
GMT-X4 weighing indicator with intelligent junction box built in can easily monitor the defaulted load cell.

FEATURES

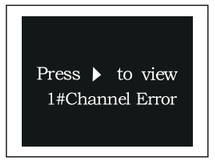
- Main display
- Up to 6 digits



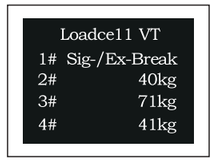
- Weight display
- Individual load cells



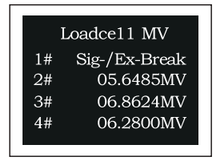
- Millivolt display
- Individual load cells



- Main display
- Error notice
- Load cell failure



- Weight display
- Error notice
- Defaulted load cell



- Millivolt display
- Error notice
- Defaulted load cell

HARDWARE HIGHLIGHT

- 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;

Option1 Modbus TCP /IP or EtherNet/IP or ProfiNet or EtherCat or CCLink IE;

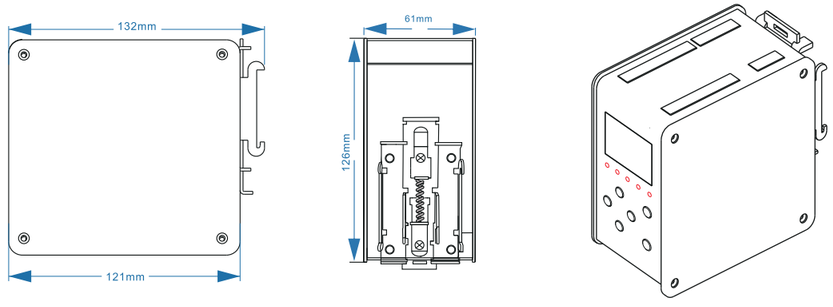
Option2 1-channel analog output;

Option3 CAN communication;

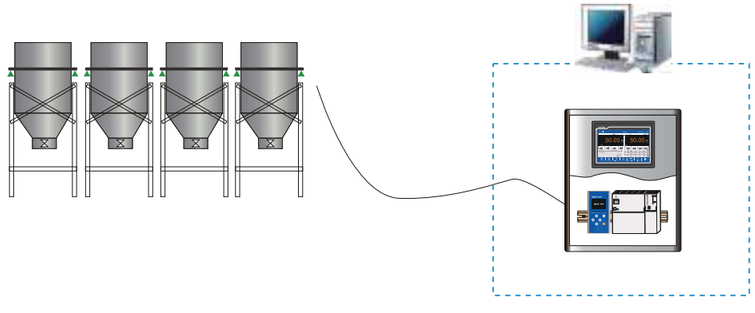
(Option1, 2, 3 can be selected at the same time.)

Specification

General Specifications	Model	GMT-X4
	Power	DC 24V ±5%
	Size	62mm ×134mm ×128mm
	Weight	Approx. 880g
	Operating Environment	-10～40℃； 90%R.H,No Condensation
	Storing Environment	-40～60℃； 90%R.H,No Condensation
	Power Dissipation	10W
Measurement Parameters	Weighing Platform Excitation Voltage	5V, 200mA(MAX)/channel
	Weighing Platform Requirement	4 simulation scale interface, can connect up to 40 load cell with 350Ω, 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



Application Diagram



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 HIGHLIGHT

- 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;
③ Profinet/Ethernet/CC-Link IE;

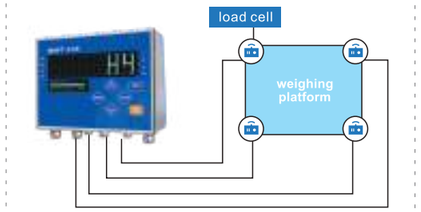
Modbus TCP/IP PROFINET EtherNet/IP CC-Link IE

SOFTWARE HIGHLIGHT

- Two-screen with Chinese and 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

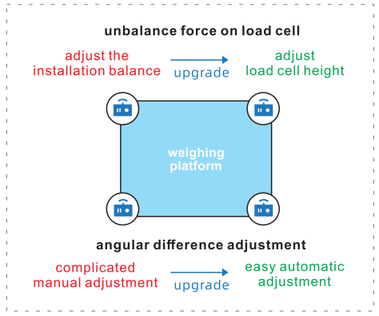
Usage:

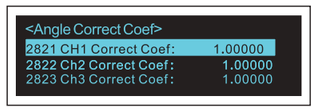
- Multiple load cells can connect to the GMT-H4 directly without junction box;
- Bright LED main screen displays the total weight allowing to see under sunshine or long distance;
- OLED screen can check each load cell's weighing data in detail.



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.

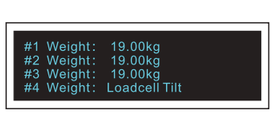


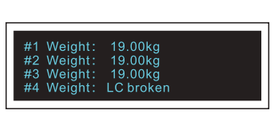


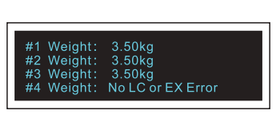
Early Warning Function:

- 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	Installation base subsidence	Load cell damage	Load cell wiring failure	Emergency use
GMT-H4 can detect the load at different positions on the weighing platform to avoid the weighing error caused by partial load.	GMT-H4 can identify changes or settlement of the foundation to prevent inaccurate weighing due to unstable foundation.	GMT-H4 can real time monitor the load cell status and identify the load cell damage to ensure the weighing accuracy.	GMT-H4 can real time monitor the load cell wiring status for identifying and reminding the fault immediately.	When the load cell damaged, GMT-H4 can switch the load cell to emergency use mode to make sure the production runs well.



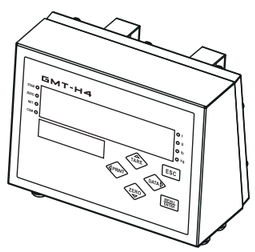


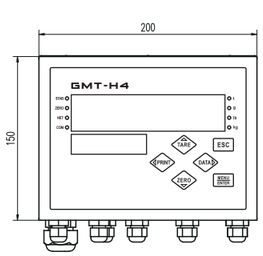


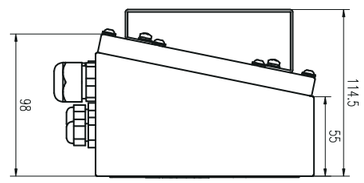
Specifications

General Specifications	Model	GMT-H4
	Power	DC 24V ± 10%
	Certificated Environment	-10 ~ 40℃; 90%R.H no condensation
	Operating Environment	-40 ~ 70℃; 90%R.H no condensation
	Power Consumption	Approx. 20W
	Calibration standard	ClassIII6000e, 1μV/e
	Size	200mm x 150mm x 120mm
Measurement Parameters	Load Cell Channel	Four independent analog load cell input channels
	Nonlinearity	0.01%F.S
	Gain Drift	10 PPM/℃
	Sensitivity	0.01μV/d
	Load Cell Power	DC5V, 200mA(Max)
	Maximum Display Accuracy	1/000000
	A/D Sampling Rate	50/100/200/400/800Hz

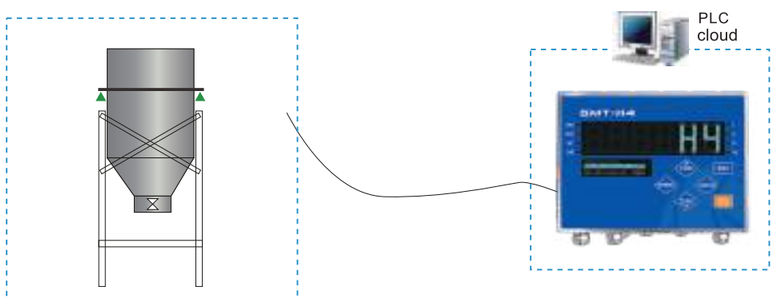
Unit: mm







Applications Diagram



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

- Single network port, support Modbus;
- Dual network ports, support ModbusTCP (No serial ports);
- Profinet or Ethernet IP or EtherCAT or CCLink IE (No serial ports);
- Analog output.

Digital Version

Standard

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

Options

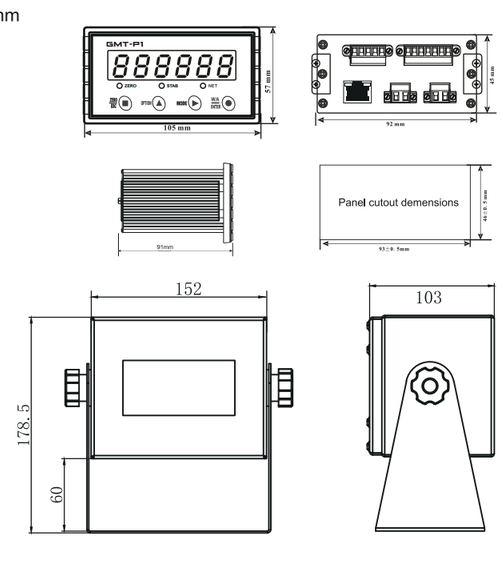
- 16-bit analog output (Voltage/Current Type);

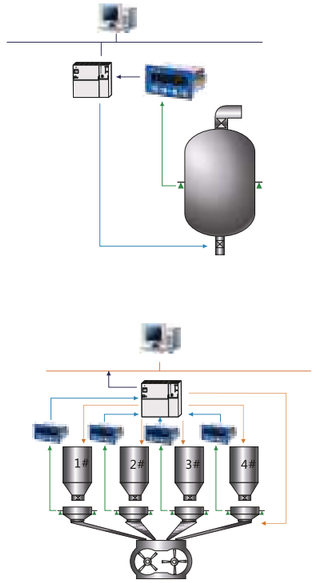
Standard Specification

General Specifications	Model	GMT-P1	GMT-P1 Digital Version
	Power Supply	DC 24V±5%	
	Working temperature	-10°C~40°C	
	Maximum humidity	90% RH.without dew	
	Testing standards	Class III 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/℃	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





GMT-H1

Weighing Transmitter

(Digital Version Available)

CE

PRODUCT INTRO

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

FEATURES

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

DIGITAL VERSION

Standard

- RS485 for digital loadcell interface;
- RS485 support ModbusRTU;
- Standard network port, support ModbusTCP;

Options

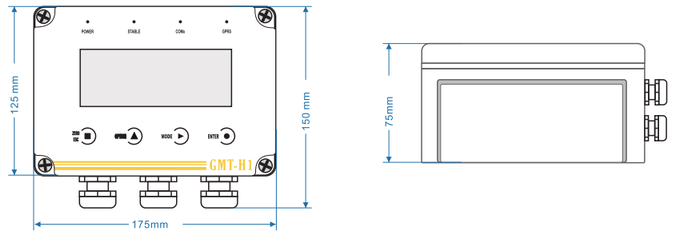
- GPRS data transmission function;

GPRS Modbus RTU Modbus TCP/IP RS485

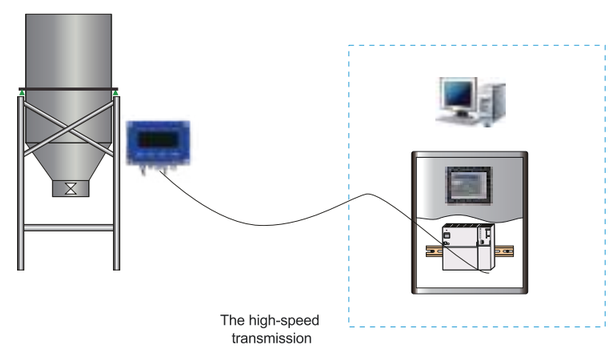
Standard Specification

	Model	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	
Measurement Paramenters	A/D conversion	24 bit Delta-Sigma	N/A
	Sampling rate	Sampling rate, initial value:100times/sec, range: 50,60,100,120,200,240,400,480 times/sec	N/A
	Nonlinearity	0.01%F.S	N/A
	Gain drift	10PPM/℃	N/A
	Sensitivity	0.1μV/d / 0.5μV/d	N/A
	Input range	Max 0.02~15mV	N/A
	Maximum display accurarcy	1/100,000	1/100,000
	Weighing platform load cell	**1 simulated weighing platform load cell interface can connect up to 8 load cells that is in 350Ω, and the sensitivity in 1mV/V、2mV/V、3mV/V.**	**1 digtial 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		
	Optional: GPRS data transmission function		

Unit : mm



Application



The high-speed transmission

GMT-H2

Weighing Transmitter

(Anti-explosion 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.

Anti-explosion Version Available

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

Ex db [ia IIC Ga] IIB T6 Gb

HARDWARE HIGHLIGHTS

Standard

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

EtherCAT Modbus TCP/IP EtherNet/IP PROFINET CC-Link IE

Options

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

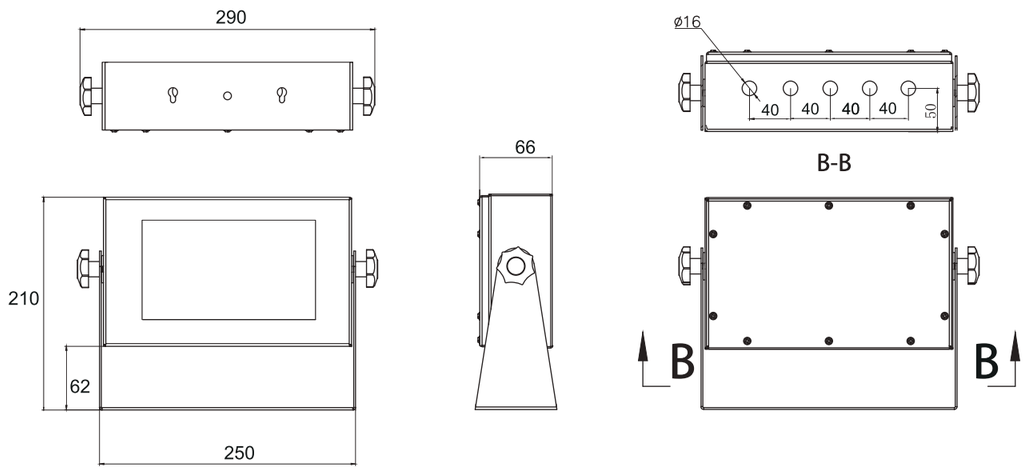
SOFTWARE HIGHLIGHTS

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

Standard Specification

		GMT-H2	GMT-H2ex
General Specifications	Model		
	Power Supply	DC 24V (12~30VDC)	AC220V / DC24V dual power supply configuration
	Working temperature	-10°C~40°C	
	Maximum humidity	90% RH.without dew	
	Testing standards	Class III 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/℃	
	Input sensitivity	0.1μV/d	
	Maximum input voltage	0~15mV	
	Display Accuracy	1/1,000,000	
	Load cell excitation	DC 5V,200mA(Max),Up to 10 load cells(350Ω) can be connected	

Dimension unite:mm



GM7702

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

CE

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.

ANALOG OUTPUT

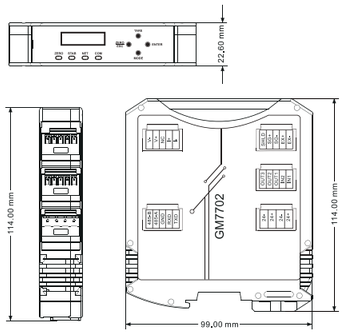
RS485/RS232

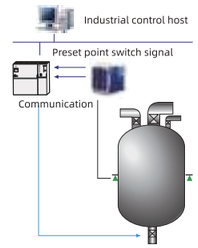
Standard specification

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)
	Input impedance	10MΩ
	Zero steady range	-15mV~15mV(Load cell 3mV/V)
I/O Part	Inputs	2,active low Zero/tare/trigger preset point n (n=1/2/3/4)
	Outputs	3,single drive current 500mA Stabilization/Overfilow/Trigger Point n Output (n=1/2/3/4)/Upper/Middle/Lower Limit

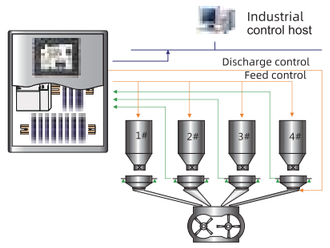
Dimensions

Unit:mm





Preset point mode weighing application



Multi-material serial weighing and networking

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.

• Standard

• Optional

- 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.

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**
- Dual net work ports for Modbus TCP or Profinet
- 1 Analog input (current/voltage optional)+1 analog output interface;

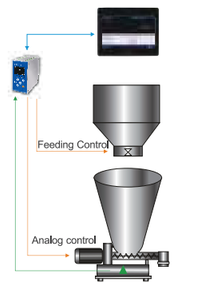
Software Features

- 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;

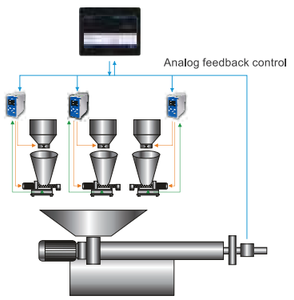
Standard Specification

General Specifications	Model	GMC-X3
	Power Supply	DC 24V (18~36VDC)
	Approved Environment	-10℃~40℃
	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
	Display Accuracy	1/1,000,000
Communication Interface	Standard	• 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
	Optional	• Dual net work ports for Modbus TCP or Profinet • 1 Analog input (current/voltage optional) + 1 analog output interface;

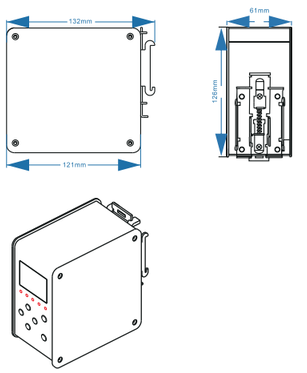
Application Diagram



Continuous Dosing Application



Multi-heads Continuous Dosing



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

- Stainless steel case with compact design (61*132*126mm);

Standard: ①1 RS232 and 1 RS485; ② I/O 12 input and 16 output.

Optional: Single or dual network port: support Modbus TCP/IP.

SOFTWARE HIGHLIGHT

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

Multiple working modes: pneumatic feeding/discharging; motor feeding/discharging;

Clamping and loosening bag modes: Pneumatic, stepping motor, motor single-limit, motor double-limit optional;

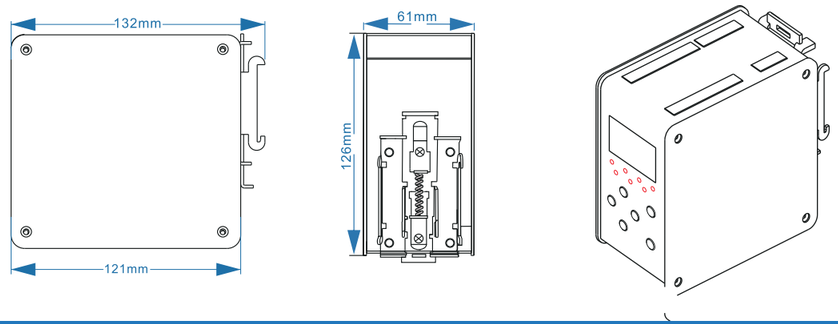
- Batches setting function;
- Material level control function;
- I/0 logic programming control function;

Weighing and peripheral functions:

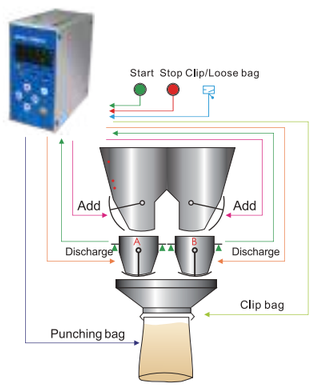
- multiple digital filtering;
- automatic zero tracking;
- auxiliary pulse;
- multiple bag tapping modes;
- sewing machine control;
- discharge vibration;
- conveyor control;

Standard Specification

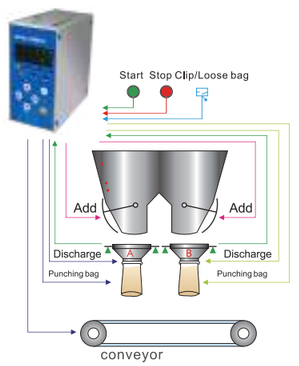
General Specifications	Model	GMC-X904
	Power	DC24V ±5%
	Size	61mm×132mm×126mm
	Working Environment	-10~40°C
	Max. Humidity	90%R.H No Condensation
	Power Dissipation	Approx. 15W
Measurement parameters	Weighing Standard	ClassIII6000e, 1μV/e
	A/D Conversion	24bit Sigma-Delta
	A/D Speed	120/240/480/960 SPS
	Non-Linearity	0.01%FS
	Gain Drift	10 PPM/°C
	Sensitivity	0.02μV/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)



Application Diagram



Duplex Packing Controller with Hopper



Duplex Packing Controller without Hopper

GMC-X802-C2/D
Linear Feeder Controller

The GMC-X802-C2/D is a weighing module developed for linear feeder packing systems with vibrators. Single scale (C2) or dual scale (CD) 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 Interface

Standard:

- 2 RS485 Communication: for PC, PLC, printer, tag printer, remote display, or other external device;
- USB: used for program upgrade and parameter import, export and backup;
- 10 Input/20 Output I/O ports: for starting, stopping, discharging, feeding, I/O definable for different applications;
- C2: 1load cell interface: for the 6-wire load cell scale;
  CD: 2 load cell interface: for the 6-wire load cell scale, 1 interface can connect up to 8 load cells with 350Ω;

Options:

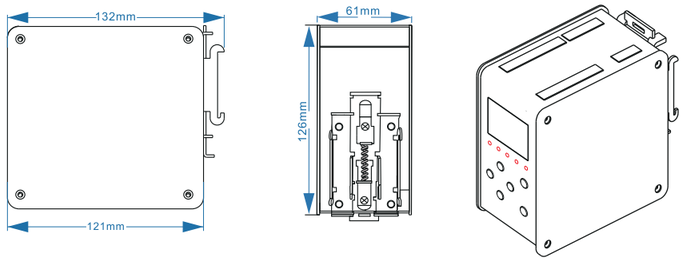
- Single/dual internet ports: support Modbus TCP;
- C2: 1/2 analog interfaces, output range: 0~5V, 0~10V, 0~24mA, 4~20mA;
  CD: 2/4 analog interfaces, output range: 0~5V, 0~10V, 0~24mA, 4~20mA.

Functions

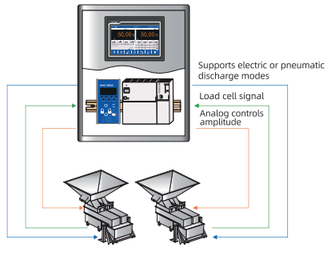
- DIN rail mount, save space;
- With screen and buttons for easy operation;
- For dual packing scales, up to 3 controllers for 6 packing scales interlocking without PLC;
- McgsPro program sample code of single / double / four / six scales can be provided;
- Various feeding mechanisms: vibrator, air cylinder, 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.

Specifications

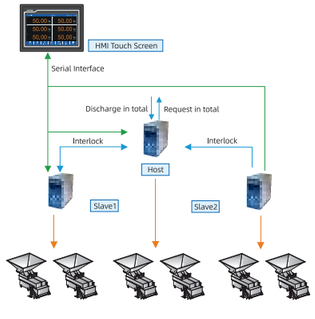
General Specifications	Model	GMC-X802-C2/D
	Power	DC 24V ±5%
	Working Temperature	-10～40℃
	Humidity	90%R.H no condensation
	Power Consumption	Approx. 5W
	Calibration standard	ClassIII6000e, 1μV/d
	Size	61mm x 132mm x 126mm
Weighing Parameters	A/D Conversion	24 bits Delta-Sigma
	Nonlinearity	0.01%F.S
	Gain Drift	10 PPM/℃
	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)
Hardware Interfaces	Load Cell Interface	C2: 1load cell interface: for the 6-wire load cell scale; CD: 2 load cell interface: for the 6-wire load cell scale, 1 interface can connect up to 8 load cells with 350Ω;
	I/O Interface	10 IN 20 OUT transistor interfaces (PW1-PW6 is PWM output)
	Communication Interface	2 RS485 communication interfaces Modbus TCP optional
	Analog Interface	C2: 1/2 analog interfaces, output range: 0~5V, 0~10V, 0~24mA, 4~20mA CD: 2/4 analog interfaces, output range: 0~5V, 0~10V, 0~24mA, 4~20mA



Applications Diagram



GMC-X802CD for 2 Linear Feeder Packing Machine without PLC



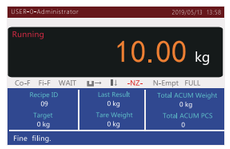
GMC-X802CD for 6 Linear Feeder Packing interlocking without PLC

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

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

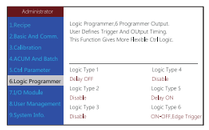
Up to 6 sets of logic trigger signals can be defined and simple logic signal output can be configured to control the upper barrel, gland, coding and other auxiliary devices.

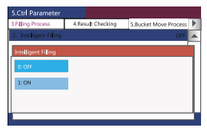
Database

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

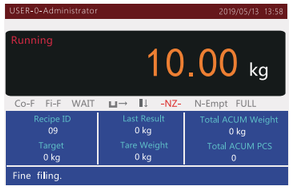
- RS232 + RS232/RS485 selectable;
- M04-2, M04-4, M04-5, M04-6: 8 Inputs/12 Outputs
  M04-D, M04-6D: 12 Inputs/17 Outputs for starting, stopping, zeroing, clamping/loosening bags, etc.;
- Modbus TCP for connecting PC, PLC, printer etc.（M04-2 & M04-5);
- USB for importing and exporting data or working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

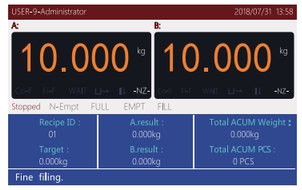
M04
Weighing Controller Stainless Steel Version

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

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

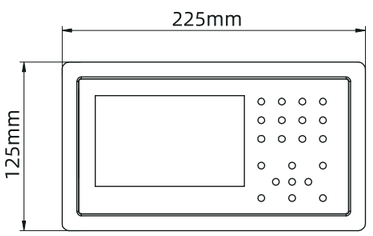
- RS232 + RS232/RS485 selectable;
- M04-2, M04-4, M04-5, M04-6: 8 Inputs/12 Outputs
  M04-D, M04-6D: 12 Inputs/17 Outputs for starting, stopping, zeroing, clamping/loosening bags, etc.;
- Modbus TCP for connecting PC, PLC, printer etc.（M04-2 & M04-5);
- USB for importing and exporting data or working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

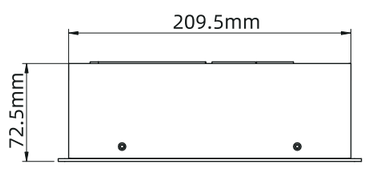
Standard Specification

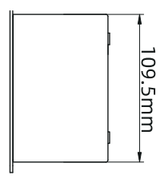
General Specifications	Model	M04
	Power supply	DC 90~260V 50Hz(60Hz) ±2%
	Working temperature	-10℃~40℃
	Maximum humidity	90% R.H without dew
	Testing standards	Class III 6000 e, 1 μ V/e
	IP grade	Ip65 （front panel）
A/D Conversion	A/D performance	24 bit Delta-Sigma
	A/D conversion speed	120/240/480/960 times/sec
	Non-linearity	0.01%F.S
	Gain drift	10PPM/℃
	Input sensitivity	0.02μV/d
	Display accuracy	1/100,000
	Input range	0.02~15mV
	Sensor power supply	DC5V 125mA(Max)
	Input impedance	10MΩ
	Zero steady range	Maximum 0.002 ~ 15mV(Load Cell 3mV/V)
Application Software	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

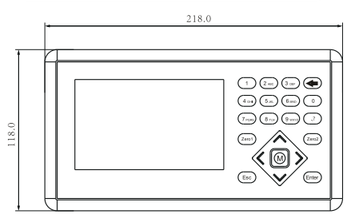
Stainless Steel Version

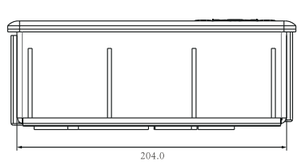


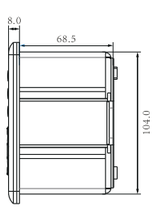




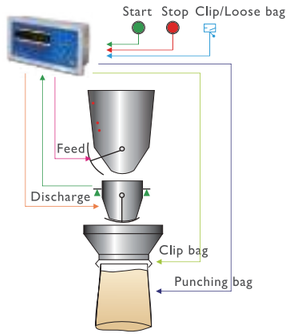
Plastic Version



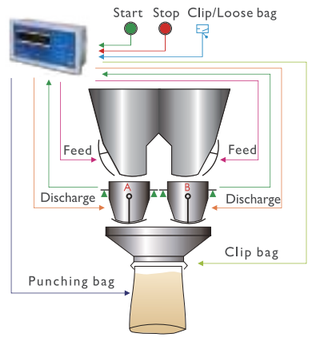




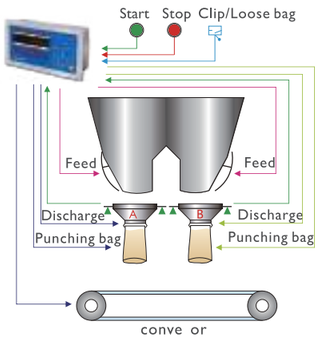
Application



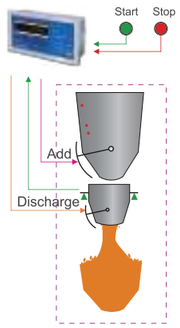
Single Channel Packaging Controller with Hopper



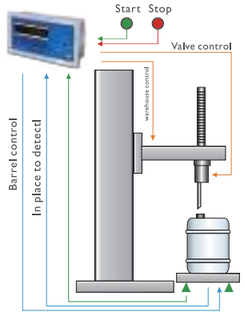
Double Channel Packaging Controller with Hopper



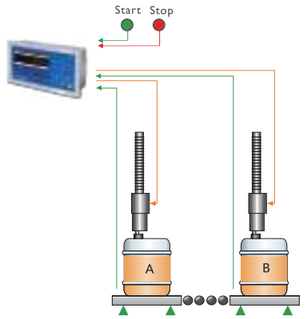
Double Channel Packaging Controller without Hopper



Continuous Weighing



Single Nozzle for Liquid Filling Application



Double Nozzle for Liquid Filling Application

GMC-P7

Touch Screen Weighing Controller

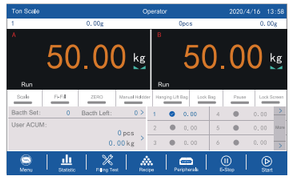
GMC-P7 weighing controller is designed for dynamic weighing/packing/batching applications, widely used in grain and seeds, feeds, rubber and plastic, and the chemical industries.

DESCRIPTION

Application Software

Multiple Software Selection:

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

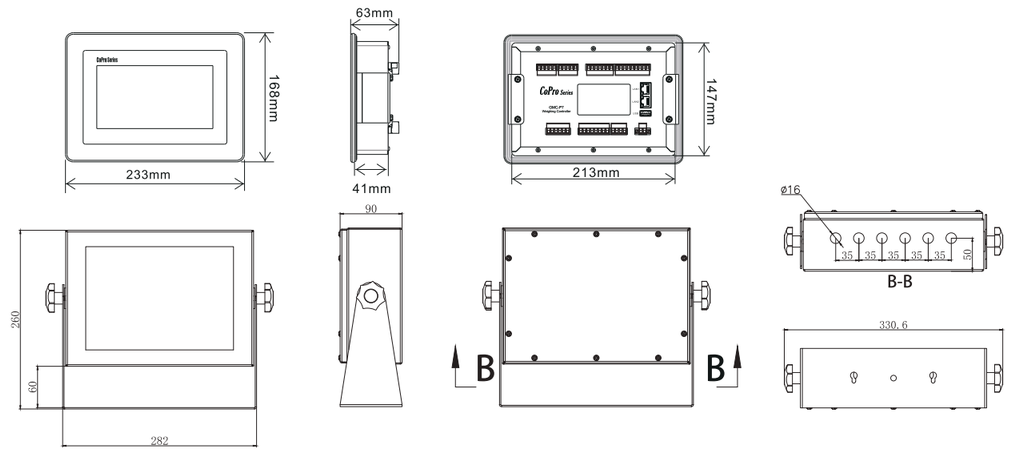
Multiple Communication Methods

- **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.

Standard Specification

General Specifications	Model	GMC-P7 (CoPro Series)
	Power Supply	DC 24V plus or minus 5%
	Working temperature	-10℃~40℃
	Maximum humidity	90% R.H without dew
	Testing standards	Class III 6000 e, 1 μ 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/℃
	Input sensitivity	0.02μV/d
	Display Accuracy	1/100,000
	Input range	0.02~15mV
	Sensor power supply	DC5V 125mA(Max)
	Input impedance	10MΩ
	Zero steady range	Maximum 0.002 ~ 15mV(Load Cell 3mV/V)
Application Software	• Simplex packing; • Reduce weight method packing; • Batching scale.	• Duplex packing; • Bulk Scale (Continuous weighing);
Function extension	Equipped with GMA-X1 automatic traction module, reduce workforce cost	

Dimension Unit:mm



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;
- Modbus TCP;

Options:

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

Digital Version

Standard:

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

Options:

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

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);

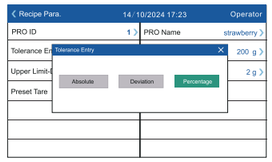
APPLICATION

- Available to connect external devices.
- Available for weighing and counting different types of materials for industry or food retailing markets.

Static Weighing Function

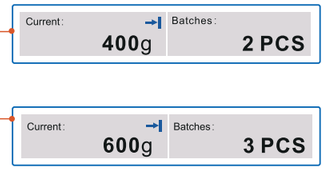
- The weighing result is clear.

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

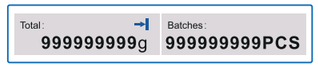


- Recording the accumulated weights and batches, easy to manage;

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

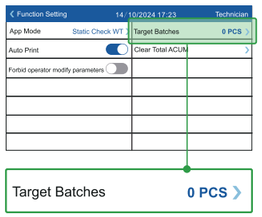


Maximum cumulative values and batches



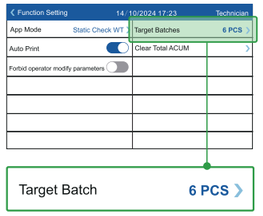
Non-target mode

Record the qualified cumulative weights and batches.



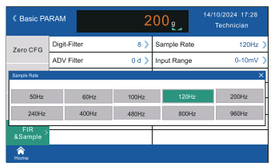
Target-mode

Reach the target weighing batch.

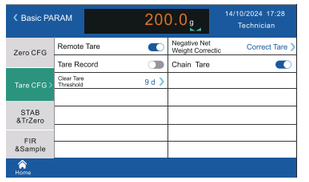


▶ After reaching the target batch, the completion alarm pop up, and the cumulative weights and batches will be cleared.

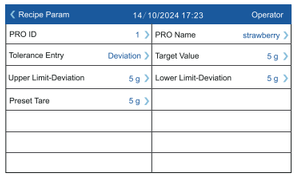
- **Two-level filtering:** dealing with data fluctuating, make it stable;
- Multilevel sampling rate, more choice for user.

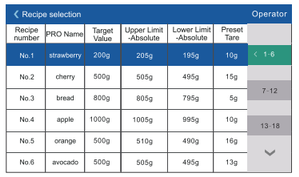


- Continuous taring;



Formula Function



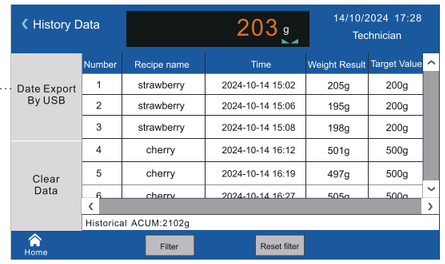


- **50 formulas setting:**

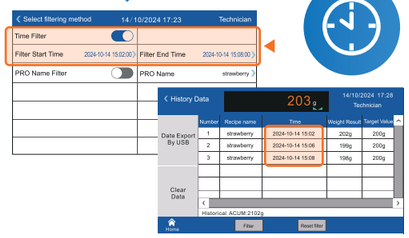
  each formula has a corresponding number, name,and supports three tolerance modes.

History Record Function

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

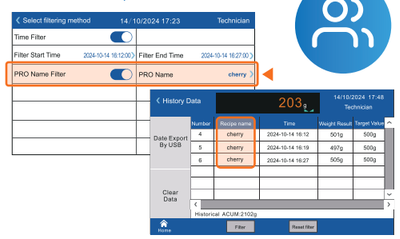


Check history records by selecting the filter of time

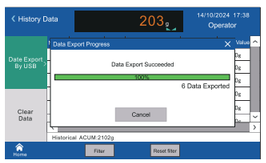


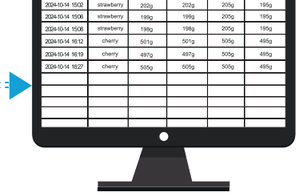
&

Check history records by selecting the filter of product name



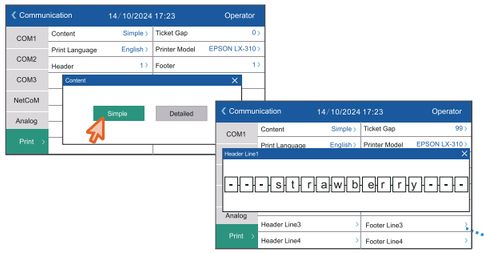
- USB for exporting the history data;





Printing Function

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



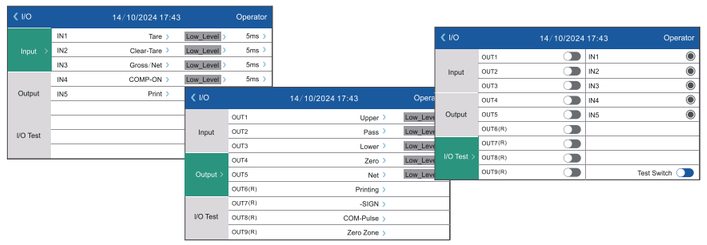
Simple format

```
---strawberry---
Date          14/10/2024
Time          15:45:00
TNO.                 62
Net             +503 g

Check                HI
Sum            10693 g
Batches          44PCS
general-measure-
```

Standard format

```
---strawberry---
Date          14/10/2024
Time          15:45:00
TNO.                 62
Gross           +503 g
Net             +503 g
Tare              +0 g

Check                HI
Tareget         +500 g
Tol_H             +3 g
Tol_L             +3 g
Entry         Deviation
Sum            10693 g
Batches          44PCS
general-measure-
```

I/O Function



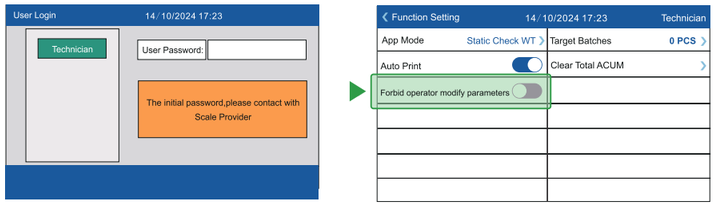
- Standard 5 inputs 5 outputs I/O ports, optional 4 relay outputs;
- Support I/O testing funtions;

Boot Screen Function

Your logo

User Authority Function

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

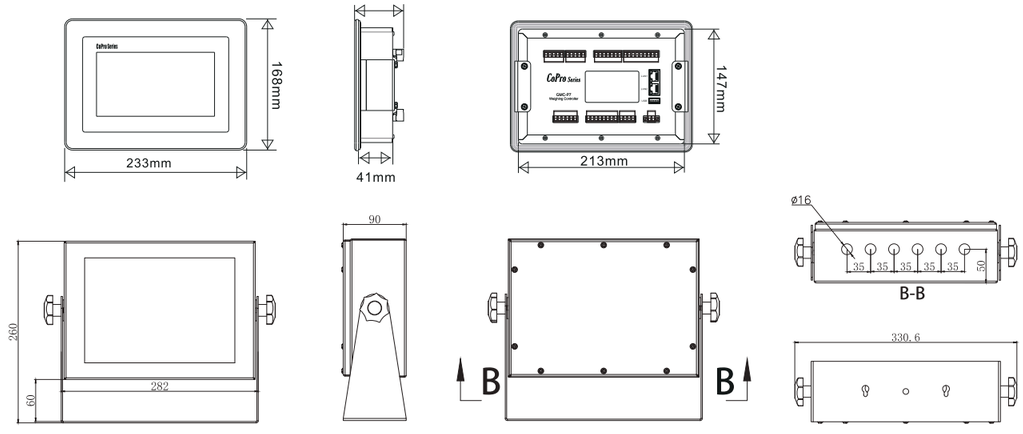


Standard Specification

General Specifications	Model	GMC-P7 F8	GMC-P7 F8 Digital Version
	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



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.

CE

Version Features

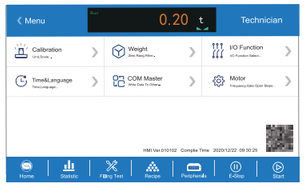
User-Friendly · Better Experience

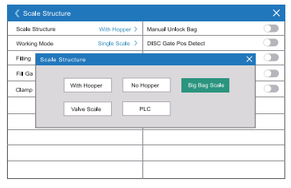
• Memory card build in, 7-inch touch screen for displaying clearly and operating easily, Single/double scale interface mode switching;

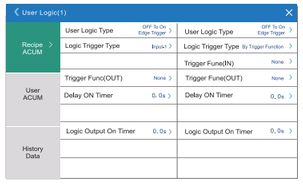
• Multi-Mode: With Hopper, No Hopper, Big Bag Scale,Valve Scale,PLC;

• Self-Adaptive: I/O Programmable;

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







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;

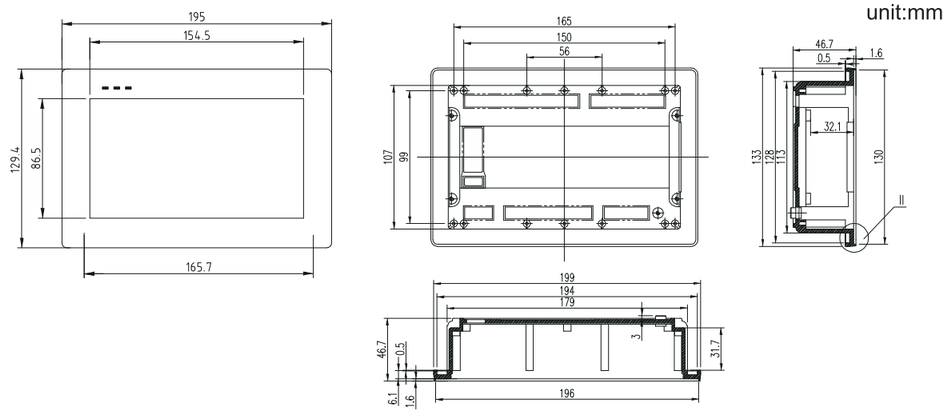
Modbus TCP

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

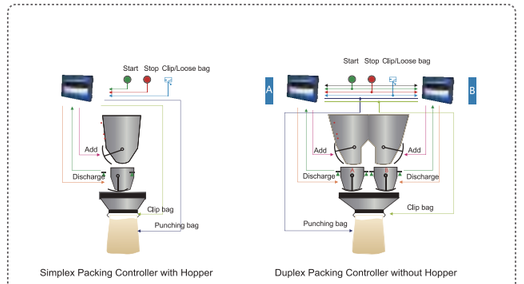
Specification

Model		GM9907-L2/LD
General Specifications	Power Supply	DC24V
	Operating Temperature	-10~40℃
	Maximum Humidity	90%R.H without dew
	Test Standard	Class III 6000 e, 1 μ V/e
	Power Consume	About 15W
Measurement 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
	Zero Point Adjustment Range	0.002~15mV（load cell 3mV/V）
I/O Interfaces and Communications	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 flow, Bag lock, Result waiting, Ready, Discharge, -NZ-, Pat bag, FILL, EMPT, Alarm, Batch complete, Over/Under	

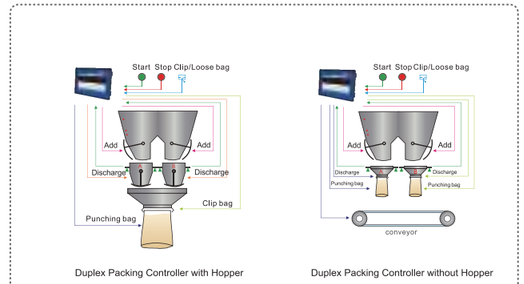
unit:mm



Application Diagram



GM9907-L2



GM9907-LD

GM9907-L4

Reduce weight method packing controller

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

CE

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;

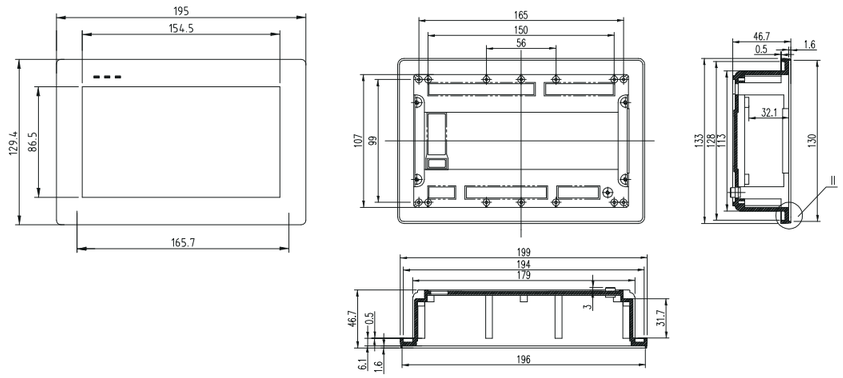
Modbus TCP

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

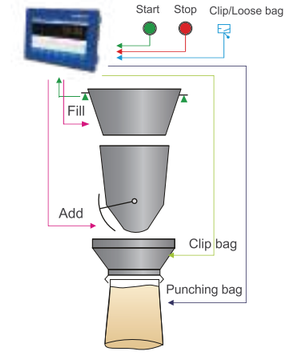
Specification

Model		GM9907-L4
General Specifications	Power Supply	DC24V
	Operating Temperature	-10~40℃
	Maximum Humidity	90%R.H without dew
	Test Standard	Class III 6000 e, 1 μ V/e
	Power Consume	About 15W
Measurement 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
	Zero Point Adjustment Range	0.002~15mV（load cell 3mV/V）
I/O Interfaces and Communications	2 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.	

unit:mm



Application Diagram



Reduce weight method packing

GM9907-L5

Bulk Scale Controller
(Continuous Weighing)

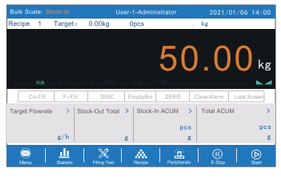
GM9907-L5 is designed for bulk scale to solve the problem of batch weight and automatic totalizing of incoming and outgoing material. It can be used widely used in chemical, grain, feeds, construction and harbor logistics industies etc.

CE

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;

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;

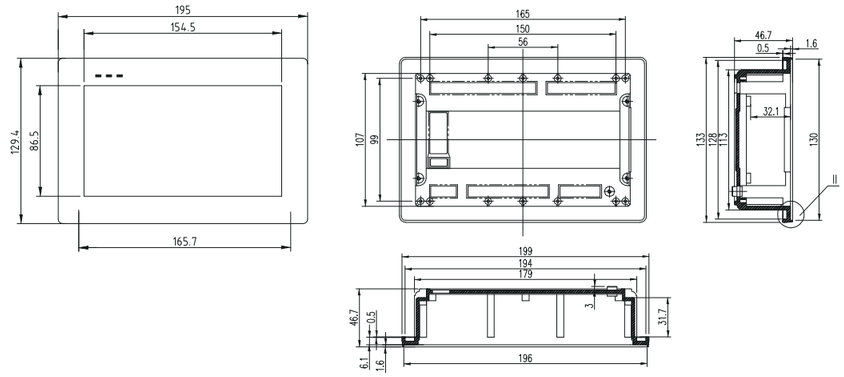
Modbus TCP

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

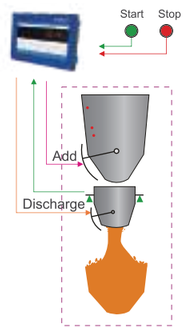
Specification

Model		GM9907-L5
General Specifications	Power Supply	DC24V
	Operating Temperature	-10~40℃
	Maximum Humidity	90%R.H without dew
	Test Standard	Class III 6000 e, 1 μ V/e
	Power Consume	About 15W
Measurement 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
	Zero Point Adjustment Range	0.002~15mV（load cell 3mV/V）
I/O Interfaces and Communications	12 Input 16 Output, I/O Selectable	
	12 Input, Active-low Start, Emergency stop, Stop, Zeroing, Clear alarm, Fill permission, Clogged, Manual fine flow, etc.	
	16 Output, Single drive current 500mA Run, Stopped, Clogged, Coarse flow, Fine flow, Result waiting, Over/under, Alarm, Stock-out Done, Last feed, DISC, -NZ-, etc.	

unit:mm



Application Diagram



Continuous Weighing

GM9907-L6/L6D

Liquid Filling Controller

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

Version Features

User-Friendly · Better Experience

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

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

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

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.

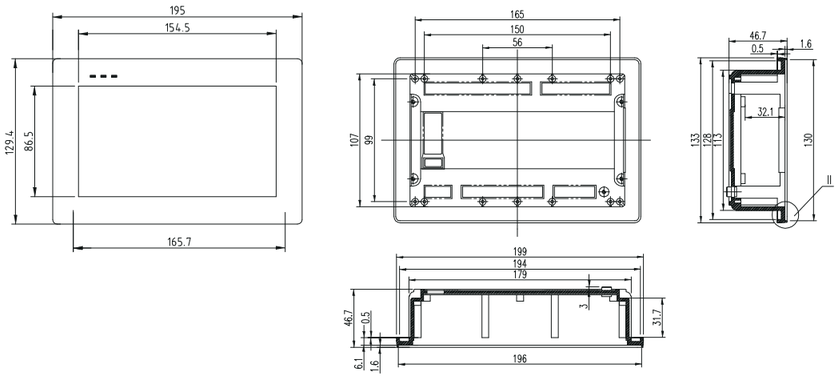
Modbus TCP

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

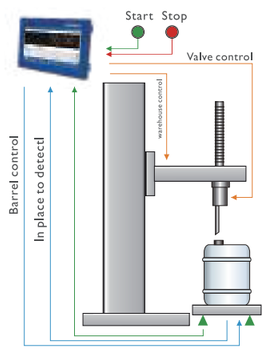
Specification

Model		GM9907-L6/L6D
General Specifications	Power Supply	DC24V
	Operating Temperature	-10~40℃
	Maximum Humidity	90%R.H without dew
	Test Standard	Class III 6000 e, 1 μ V/e
	Power Consume	About 15W
Measurement 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
	Zero Point Adjustment Range	0.002~15mV（load cell 3mV/V）
I/O Interfaces and Communications	**12 Input, Active-low** Start, Emergency stop, Zeroing, Clear alarm, Switch formula, Dropping/lifting nozzle, feeding, etc	
	16 Output, single drive current 500mA Run, Stop, Fast feeding, Slow feeding, Constant value, Over/Under weight, Alarm, Move barrel, dropping nozzle, Batching finish, etc.	

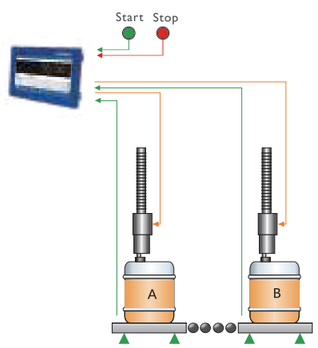
unit:mm



Application Diagram



Single Nozzle for Liquid Filling Application



Double Nozzle for Liquid Filling Application

GM9907-LB

Batching Scale Controller

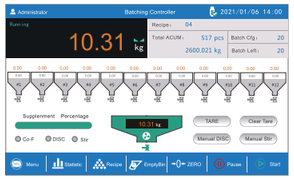
GM9907-LB is designed for batching scale that can sort feeding orders of a variety of materials. It can be widely used in concrete mixing, bituminous mixing, metallurgy, chemical, feeds industries etc.

CE

Version Features

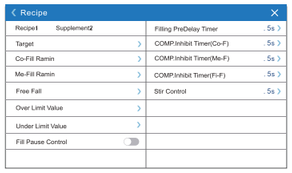
User-Friendly · Better Experience

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

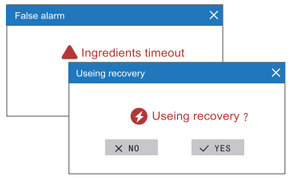


• Support the batching of 12 kinds of materials. It can be customized according to the batching process sequence, which is flexible to use;

• 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;



Communication

RS485+RS232

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

USB

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

12 Input/16 Output

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

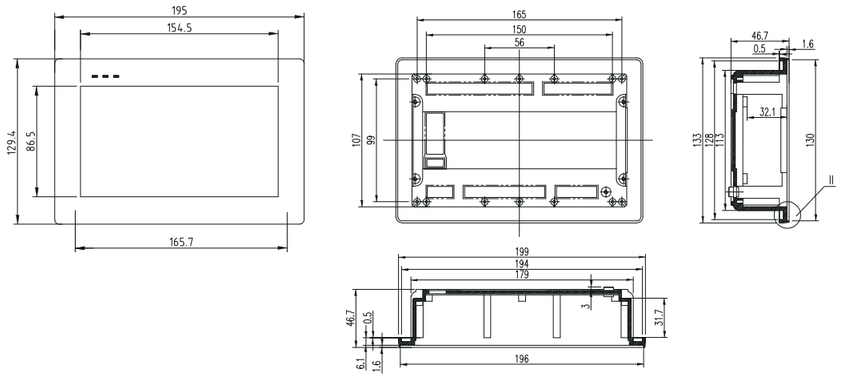
Modbus TCP

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

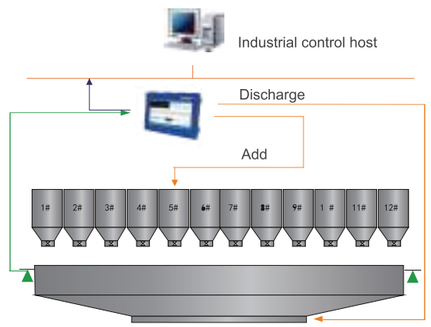
Specification

Model		GM9907-LB
General Specifications	Power Supply	DC24V
	Operating Temperature	-10~40℃
	Maximum Humidity	90%R.H without dew
	Test Standard	Class III 6000 e, 1 μ V/e
	Power Consume	About 15W
Measurement 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
	Zero Point Adjustment Range	0.002~15mV（load cell 3mV/V）
I/O Interfaces and Communications	12 Input 16 Output, I/O Selectable	
	12 Input, Active-low 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 Run, Stopped, Coarse flow, Medium flow, Fine flow, Result waiting, Over/under, DISC, -NZ-, Alarm, Stir, etc.	

unit:mm



Application Diagram



Batching, up to 12 materials

Highly Visible Remote Display

Remote display is a outdoor truck scale weight display of highest quality with full stainless steel body with IP65 standard, which is the ultra light LED display with wide viewing angle of 170 degrees and crystal clear under sunlight.

CE

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.

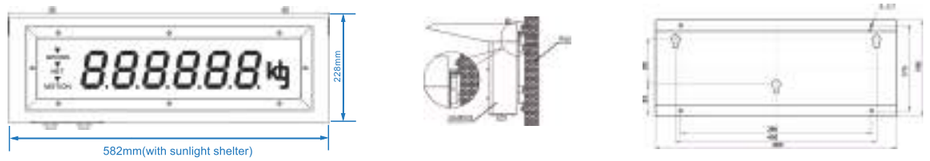
Standard Specification

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 Storage Temperature	-10℃ to 40℃ -25℃ to 70℃	-10℃ to 40℃ -25℃ to 70℃
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

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:

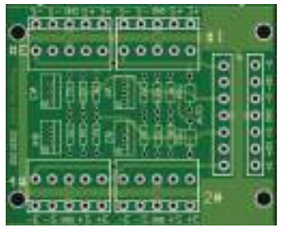
- 12V+: EXCITATION +
- 12V-: EXCITATION -
- SHLD: SHIELD
- A: SIGNAL A
- B: SIGNAL B

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.

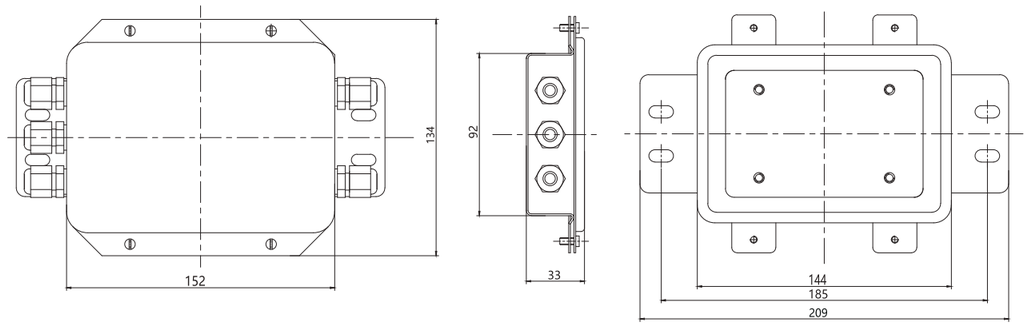
Four-Angle Deviation Adjustment Method



- 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



Connection Diagram

GENERAL MEASURE 杰曼科技

Weighing automation technology

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(Ex Marking: Ex db IIC Gb, IP Rating: IP66) 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**

Ex NEPSI

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:

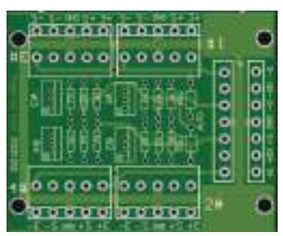
- 12V+: EXCITATION +
- 12V-: EXCITATION -
- SHLD: SHIELD
- A: SIGNAL A
- B: SIGNAL B

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.

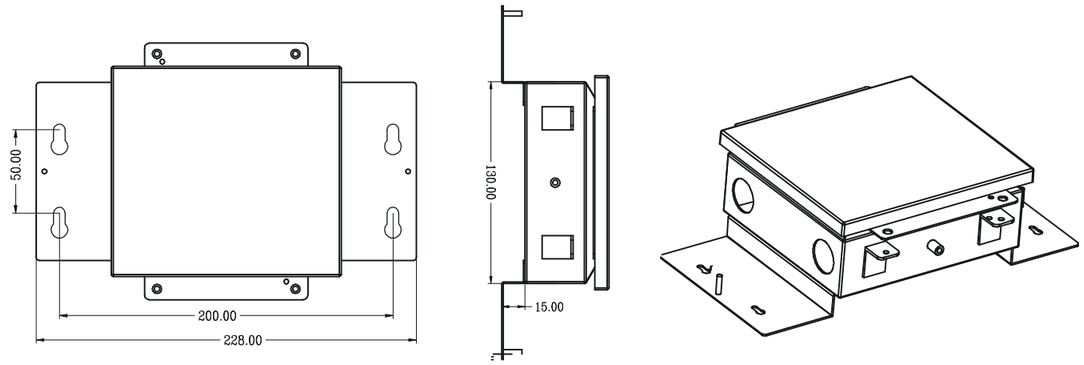
Four-Angle Deviation Adjustment Method



- 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



Connection Diagram

Unit:mm