

GM9907-L2

user's manual

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V0 2 .00.00

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Company website http://www.szgmt.com

Implementation standards of this product : GB/T 7724-2008

CE

)verview

The GM9907 Packaging Controller is a new weighing control instrument specially developed for the single scale incremental method automatic quantitative packing scale. The controller English display interface for

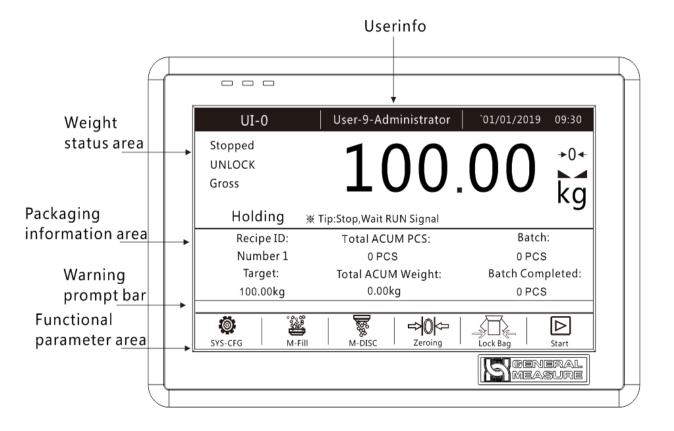
easy operation; completely new algorithm faster and more accurate control so that the load; the USB port and dual port serial device to make it easier to system interconnect. Can be widely used in feed, chemical, food and other industries that require quantitative packaging equipment.

1.1 features and features

- > English display interface make operation easier and more intuitive
- > There are five modes of bagging application, hopper, non hopper, big mouth, servo motor, PLC.
- > 28-digital input and output control (12 in / 16 out), the input and output port positions can be customized.
- > Switching quantity test function, convenient for debugging of packing scale
- > Fully automatic double material speed, three material speed feeding control, with jog feeding function
- > Twenty formulas can be stored to facilitate packaging of different range materials
- VSB interface facilitates import and export of various parameters
- > Feed control function, convenient control connection between packaging scale and front feeding equipment
- Feed speed adaptive function
- ➢ IO auxiliary logic programming
- ➢ Automatic drop correction function
- ➤ Multiple digital filtering
- ➢ Batch setting function
- > Bag making function, suitable for packaging of powder materials
- ➤ Automatic zero tracking
- > Time/date function
- Three-level user identity setting
- > Dual serial port, external serial printer, computer or second display

> With network port communication function , it is convenient to communicate with the host computer

1.2 front panel description

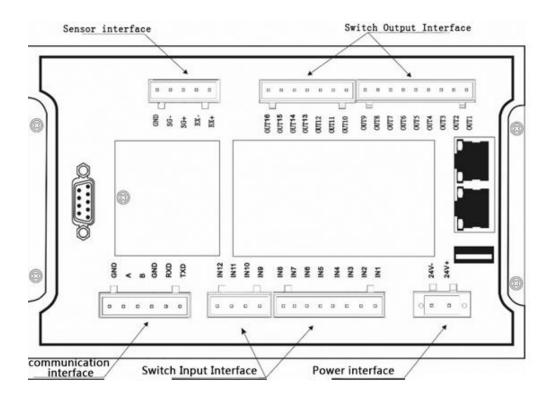


Interface 1 description :

User information, weight status area , alarm prompt bar and function parameter area are retained . Increase the parameter display area and shortcut keys for easy setting

- 1 : Parameter display area : Display the relevant parameters of the current recipe.
- 2: Shortcuts: increased 8 customizable shortcuts, setting.

1.3 rear panel description



1.4 Technical Specifications

1.4. 1 General Specifications

Power source: DC24V

Power filter: included

Operating temperature: -10 ~ 40 °C

Maximum humidity: 90% RH non-condensing

Power consumption : about **15 W**

Physical dimensions: 190 mm × 124 mm × 48 MM

1.4 .2 analog part

Sensor power source: DC 5 V 125 mA (MAX)

Input impedance : $10M\Omega$

Zero adjustment range: 0.002 $^{\sim}$ 15 mV (when sensor 3mV / V)

Input sensitivity: 0.02uV / d

Input range

0.02 $^{\sim}$ 15mV

:

:

Conversion mode

S igma- D elta

A/D conversion speed: 120, 240, 480, 960 times / sec

Non-linear: 0.01% FS

Gain drift: 10PPM / °C

Show the highest degree of precision: 1/100,000

1.4.3 digital part

Display: 7 inch resistive touch screen

Negative Number Display: "-"

Overload Display: Chinese "overrange wt / sensor signal is too small."

Decimal point position: **5** optional

2. installation

2.1 General principles

1) Open the hole in the appropriate position of the control cabinet (opening size 179 (±1) mm

× 113 (±1) mm)

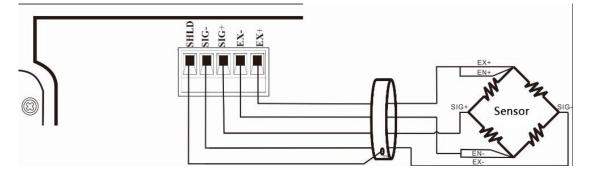
2) Load the meter into the control cabinet.

3) Remove the side strips from the accessories, fix them on both sides of the meter, and fix them with M3*10 screws.

2.2 Sensor connection

The GM9907 package controller can be connected to a resistive strain bridge sensor. When using a six-wire sensor,

the sensor's SN+ and EX+ must be shorted , and SN- and EX- should be shorted .

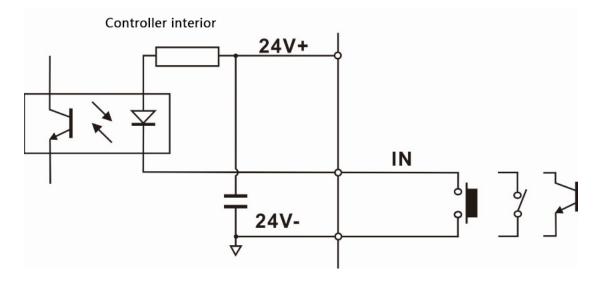


EX+: Power supply is positive **EX-**: Power negative **SN+**: Sensing positive **SN-**: Inductive negative **SIG+**: Positive signal **SIG-**: negative signal

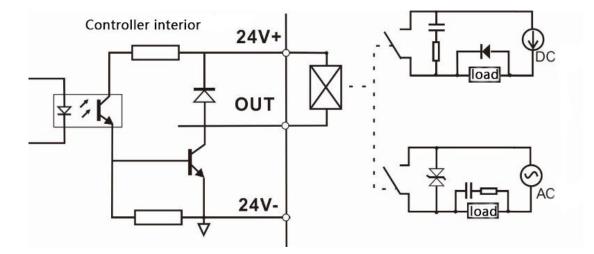
2.3 switch interface connection

GM 9907 package controller **28** comprises a switch input, output control **(the 12/16).** The photoelectric isolation mode is adopted, and the internal power supply of the instrument is driven. Meter switch input is active

low; output open-collector transistor output taken, each line of the drive current up to **5 00m A**, the maximum full load current of **3A**. The terminal wiring is as shown below:



Switch input interface diagram

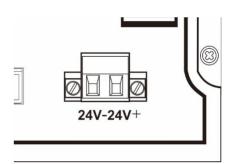


Switch output interface diagram

GM 9907 packaging controller to switch the user can customize the way, to facilitate the user lines and some special applications, digital content <u>See Section 3.7.</u>

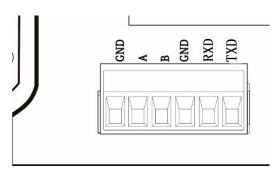
2.4 power connection

The GM9907 package controller uses a 24V DC power supply. The connection is as shown below:

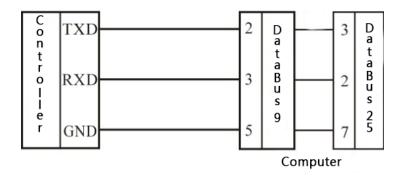


2.5 serial port connection

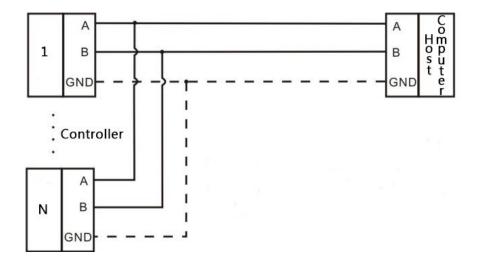
The GM9907 provides two serial communication interfaces as shown in the figure below. The serial port one is RS - 232 mode (terminal port TX D, RX D, GND); the serial port 2 is RS - 485, (terminal port A, B, GND). Serial port support: MODBUS protocol, continuous mode and print format.



Instrument and computer connection diagram







Instrument and host computer connection diagram (RS-485 mode)

2.6 touch screen calibration

The touch screen needs to be calibrated when the new product is used for the first time or after a long time. The touch screen calibration method:

Power on the **GM9907**, and press and hold the touch screen at any time. The system **switches** to the touch screen calibration interface. Press and hold the cursor position on the screen to complete the calibration. After the coordinates of the point are displayed, the screen will automatically enter the next calibration point. Follow the change of the cursor position and press and hold, the calibration is completed, and the interface displays

the coordinates of the five calibration points, and then automatically enters the main interface of the product. If you enter the touch screen calibration interface by mistake, you can exit the interface by pressing the "Cancel" button in the lower right corner.

3 menu

Click the system menu to enter the parameter menu and query and modify each parameter.

Administrator	0:Target	1:Time Parameter	2:Over/Under Parameter
1.Recipe	3:Auto Free Fall Correction Parameter	4:Jog Flow Parameter	5:With Hopper
2.Sys&Com 3.Peripherals	6:No Hopper Parameter	7:PLC Parameter	8:Ton Scale Parameter
4.Motor	8:Valve Scale Parameter		
5.Calibration			
6.ACUM And Batch			
7.I/O Module	Recipe ID:	Target:	
8.User Logic	T	100.00kg	
9.User Manage			[]
10.System Info.			Return

The system menu interface is as shown in the figure above. The left side is the parameter item list, and the right side is the parameter item brief description and some parameter item information.

Click the sub-option button to enter the current parameter item to view and set the attribution parameter information.

menu	Parameter item	parameter list	Parameter Description
		0: Quantitative value	Set the package weight value related parameters
		1 : time parameter	Set the delay time related parameters of the feeding process
		2 : Super poor parameter	Set parameters such as excess weight, mode, and feeding
system System dish single	Recipe parameters	3: Drop correction parameter	Set the difference correction method, correction range and other related parameters
Single		4: Slow plus jog parameters	Set slow plus jog switch, time and other related parameters
		5: There are bucket scale parameters	Set the relevant parameters of the bucket scale structure
		6: No hopper scale parameters	Set the relevant parameters of the hopper less scale structure

Press [Back] to exit the current interface and return to the previous interface.

	7: PLC parameters	Set the state of the PLC parameters
	8: ton package scale parameters	Set the relevant parameters of the ton package scale structure
	9: Valve port scale parameters	Set the relevant parameters of the valve port scale structure
	0: weight parameter	Set the judgment, clear, and other weightparameters
	1: Filter parameters	Set filter switch, filter level
System and	2: Function parameters	Set parameters such asadaptive and fixed value
communication	3: scale body structure	Select the scale body structure , feedingmethod, etc.
	4: Serial port(232)	Set serial port (RS 232)related parameters
	5: Serial port (485)	Set serial port (RS485) related parameters
	6: Network port	Set network port related parameters
	0: bag parameters	Set the number of shots, the number of times and other parameters
	1: coding parameters	Set the relevant parameters of the coding mechanism
	2: Conveyor parameters	Set the relevant parameters of the conveyor
Dericheral	3: Print parameters	Set parameters for automatic printing function
Peripheral parameters	4 : sewing machine parameters	Set sewing machine, thread cutting machine and other related parameters
	5: Unloading rapping parameters	Set parameters such as discharge rapping time and number of times
	6: Adding and discharging timeout judgment	Set the parameters related to the loading and unloading timeout
	7: Auxiliary pulse parameters	Set the relevant parameters of the auxiliary pulse
	0: Motor parameters	Set recipe number, motor group number
	1; feeding parameters	Set feed related parameters
Motor parameters	2: Clip loose bag parameters	Set the relevant parameters of the clip loose bag
	3: Discharge parameters	Set discharge related parameters
School scale	0: weighing parameter	Set parameters such as unit, decimal point, range, etc.

	1: weight calibration scale	Performs calibration operation for calibrating the meter weight value
	0: total accumulation and batch	View, clear, print the total cumulative information
Cumulative	1: Formula accumulation (1-10)	View, clear, print recipe(1-10) package accumulation information
and batch	2: Formula accumulation (11-20)	View, clear, print recipe(11-20) package accumulation information
	3: User accumulation	View cumulative parameters for different users
	0: Digital input definition	Define the meaning of the meter input port
Switch	1 : Switch output definition	Define the meaning of the meter output port
Switch	2: Switch input test	Test whether the connection of each input port is normal.
	3 : Switch output test	Test whether each output port is connected properly.
	0: Auxiliary logic-1	Auxiliary logic 1function customization
	1: auxiliary logic-2	Auxiliary logic 2 function customization
Auxiliary logic	2: Auxiliary Logic-3	Auxiliary logic 3 function customization
parameter	3: Auxiliary Logic-4	Auxiliary logic 4 function customization
	4: Auxiliary Logic- 5	Auxiliary logic 5 function customization
	5: Auxiliary Logic- 6	Auxiliary logic 6 function customization
	0: User login	View or switch users
User Management	1: User editing	Edit user permissions, passwords, etc.
Wanagement	2: Automatic login	Set up automatic login users
	0: Version information	View software version and set system time
system	1: password management	Password management of various parameters (calibration, cumulative clear password switch must be on)
system message	2: reset / backup	Restore various parameters to factory settings and data backup
	3: USB data export	Out operation from the instrument guide, formulation, peripherals, motor, calibration, switch parameter, the serial port parameters

		4: USB data import	Importwork,recipes,peripherals,motors,calibration ,switchparameters,serial parameters to the meter
		5: Short cut definition	Define debug interface shortcuts
		6. Other settings	Select language, adjust screen brightness,
		6: Other settings	set screen saver

3.1 formulation parameters

Administrator	0:Target	1:Time Parameter	2:Over/Under Parameter
1.Recipe	3:Auto Free Fall Correction Parameter	4:Jog Flow Parameter	5:With Hopper
2.Sys&Com 3.Peripherals	6:No Hopper Parameter	7:PLC Parameter	8:Ton Scale Parameter
4.Motor	8:Valve Scale Parameter		
5.Calibration			
6.ACUM And Batch			
7.I/O Module	Recipe ID:	Target:	
8.User Logic	1	100.00kg	
9.User Manage			
10.System Info.			Return

Recipe parameter item	parameter	Description
Quantitative	Used to set the package weight value related parameters	
value	1 Recipe	Select the recipe number . Initial value: 1 ; Range: 1~20 .

	number	
	2. Target value	Quantify the target value.
	3. quickly increasethe amount of advance	In the quantification process, if the weighing value \geqslant the target value - fast increase the advance amount, the quick addition is turned off .
	3. before touching the amount	In the process of quantification, if the weighing value \geq the target value - the medium plus the advance amount, the middle plus is turned off.
	5. drop value	In the quantification process, if the weighing value \geqslant the target value - the falling value, the slow addition is turned off.
	6. zero zone value	During the quantification process, if the weighing value is \leqslant zero zone value, the discharge delay timer is started.
	Used to set th	e delay time related parameters of the feeding process
	1 beforethe addition Delay	In the metering bucket mode, when the quantitative process starts, after the delay time, the meter will judge and stabilize (if it does not meet the clear interval condition, it will not judge and not clear), and then start the feeding process; In the no-measure bucket mode, after the pocket is completed, after the delay time, the meter is judged to be stable and peeled.Initial value: 0.5 ; Range: 0.0~99.9 . (Unit: s)
	2. The quick feed ban sentenced to time	At the beginning of the quantification, during this time, in order to avoid overshoot, no weight judgment is made, and the quick addition is always effective.Initial value: 0.9 ; Range: 0.0~99.9 . (Unit: s)
Time parameter	3. Canada banned sentenced to time	After the end of quick feed, in this casebetween, in order to avoid overshooting the weight determination is not performed, has been effectively added. Initial value: 0.9 ; Range: 0.0~99.9 . (Unit: s)
	4. slow feed ban sentenced to time	After added, this time in between, in order to avoid overshooting the weight determination is not performed, the slow feed has been effective. Initial value: 0.9 ; Range: 0.0~99.9 . (Unit: s)
	5. Setpoint hold time	When the setting method is selected as "delay setting", after the slow feeding is turned off (or the super-defect difference is turned on, the super-defect alarm is finished), the setting value is started, and the holding time is passed, and the fixed value is considered to be finished, and the next process is entered Initial value: 0.5 ; Range: 0.0~ 99.9 . (Unit: s)
	6. After a	After the bag signal is given, after the delay, the meter judges

	bagInitial value: 0.5 ; Range: 07. Pine bags before delayAfter the bucket mode dis signal is output after the d After the no-bucket mode loose bag signal is output t Initial value: 0.5 ; Range: 08.DischargeDuring the unloading prod weighing bucket is less the started, and the time delated		signal is output after the dela After the no-bucket mode set loose bag signal is output thru Initial value: 0.5 ; Range: 0.0 During the unloading proces weighing bucket is less than	'99.9 . (Unit: s) arge is completed, the loose bag by time; tting (beat bag) is completed, the ough this delay. '99.9 . (Unit: s) s, when the weight value of the the zero zone value, the delay is	
ļ	Delay		ау	signal. Initial value: 0.5 ; Range: 0.0 ^	'99.9 . (Unit: s)
			Used to s	set parameters related to exces	. .
	switch 2. Super poorparameter 4 ultra 5. ow		1 under switch	super heterodynedetection	"On / Off " is optional. When this parameter is set to "On ", the quantitative process judges the excess error.
			2. Super	owe differencepause switch	"On / Off" is optional. When it is set to "On", when the quantitative process is over or under, the instrument pauses and waits for the user to process. The digital input is stopped urgently, returns to the stop state, and the alarm is cleared; or the digital input clear alarm can clear the alarm and continue the quantitative process.
			rameter 3. Excess Under the alarm timedifference		Without manually clear the alarm, the alarmtime difference over under its own alarm off. Initial value: 1.0; range: 0.0 to 9. 9.9. (units)
			4 ultradifference		In the process of quantification, if the weighing value \geq the target value + the excess value, it is judged to be excessive. Initial value: 0 .
			5. owe t	he difference	In the process of quantification, if the weighing value ≤ target value - under-difference, it is judged as poor. Initial value: 0 .
			6. Fed ur	nder differentialswitch	Set the underfeed correction judgment switch. On: Slowly add the feed according to the

		number of feeds. Off: Do not replenish
		when there is a shortfall.
		When the quantitative process is judged
	7. The maximum number of times due	to be inferior, the feed is slowly added
	to poor feeding	according to this value.
		Initial value: 1 ; range 1~99 .
	8. Lesseffectivefeeding timedifference	When feeding the output, the effective time is added slowly during an on-off cycle. Initial value: 0.5 ; range: 0.0 to 9 9 .9 . (units)
		When feeding an output, a pass off the
		cycletime has no effect on chronic.
	9. invaliddue to poor feeding time	Initial
		value : 0.5 ; range: 0.0 to 9 9 .9 . (unit s)
	Used to set relevant parameters for aut	omatic adjustment ofdrop difference
		The drop value is the weight value that
	1. Fall correction switch	has not fallen into the measuring hopper after the slow plus signal is turned off. The drop correction is corrected according to the actual blanking value as required. (Note: If the drop correction and adaptive functions are turned on at the same time, the drop correction function is invalid)
		The meter averages the difference of the
Drop correction		set number of times as the basis for the
parameter	2. fallcorrection sampling times	drop correction.
		Initial value: 1 ; Range: 1 to 99.
	3. fallcorrection range	When the current drop value exceeds the set range, the drop will not be counted in the arithmetic mean range. Initial value: 2 . 0 ; Range: 0.0 to 9.9 (% of target value).
		The magnitude of each drop correction.
		Three ranges are available in 100%, 50%,
	4. fall correction magnitude	and25% .
		Initial value: 50 % .
	Used to set manual slow feeding related	d parameters
Slow plus jog parameters	1. Slow addswitch	"On / Off " is optional. When set to "On", the meter is slowly added and
		jogged.
		Initial value: off.

		When the jog output is slowly added, the
	2. Inching slowly addeffective time	effective time is added slowly during an on-off cycle . Initial
		value : 0.5 ; range: 0.0 to 9.9 . (unit s)
	3. Slow plusjogging inactive time	When the jog output is slowly added, the inactive period is slowly added during an on-off period . Initial value : 0.5 ; range: 0.0 to 9.9 . (unit s)
	Used to set the relevant parameters of	the bucket scale mode
Bucket scaleparameter	1. Single scalecombination number	When there is a bucket scale structure, theloose bag is unloaded several times. If it is 0 , the meter discharges directly after the feeding is completed without judging whether the pocket is valid. Initial value : 1 ; Range: 0 to 99 .
	Used to set parameters related to the b	oucketless scale mode
No bucket scaleparameters	1. Re-pocketdelay start time	Effective interlocking mode without fighting, A scale B when the front end of the conveyorscale after the rear end of the conveyor, and the double scale bulk bags is not the samemodel as loose bags. If the addition is complete loose bags B scale, the scale is not loose bags A, B scale case again a bag clip, towait after the completion of the addition Aloose scale bags, and after starting the conveyor, after which time delay before scale BStart feeding. Initial value: 4.0 ; range: 0.0 to 99.9 . (unit s) (Note: This parameter is only valid when the bag is not at the same time.)
	Used to set PLC mode related parameter	ers
PLC parameters	1. PLC- ultra difference	When the weighing value > target value + excess value, the out-of-tolerance output is valid Initial value: 0.00 ; range: 0.00~100.00 .
	2. PLC- owe the difference	When the weighing value <target -<br="" value="">under-difference, the under-output is</target>

		valid Initial value: 0.00 ; range: 0.00~100.00 .
	3. The upper limit PLC-	When the weighing value > upper limit value, the upper limit output is valid Initial value: 0.00 ; range: 0.00~100.00 .
	4. PLC- lower limit	When the weighing value is < lower limit, the lower limit output is valid. Initial value: 0.00 ; range: 0.00~100.00 .
	Used to set the relevant parameters of	the ton package scale mode
	1. Delaytimepunching bags	The bag delay time until the bag is completed . Initial value : 0.5 ; range: 0.0 to 9.9 . (unit s)
	2 bracketautomatic upswitch	After the hanging bag is finished, it is judged whether the bracket automatic rising switch is turned on, and waits for the manual rising bracket signal when it is not opened.
	3. The stent uplink delay time	This delay is executed after the rising signal is sent. Initial value: 5.0; range: 0.0 to 9.9. (unit s)
	4. bracket downlinkdelay time	This delay is initiated after the quantitative delay has expired. Initial value: 5.0; range: 0.0 to 9.9. (unit s)
Tons of packing scaleparameters	5 bracket up timeout(parameter retained)	The maximum waiting time for the metering bracket to be in position . Initial value: 5.0; range: 0.0 to 9.9. (unit s)
	6. The stentdownlink timeout(parameter retained)	The maximum waiting time for the metering bracket to go down . Initial value: 5.0; range: 0.0 to 9.9. (unit s)
	7. blowingtime	Blower blow output time . Initial value : 0.5 ; range: 0.0 to 9.9 . (unit s)
	8. A beltrunning time(this parameter retained)	Electric mode, when the belt A stop signal is invalid, and the loose bags, the belt running time after punching bag A runningoperation has been completed, the running time after starting the belt B . Initial value: 5.0; range: 0.0 to 9.9. (unit s)
	9. Belt BRuntime(this parameter retained)	In the electric mode , when the stop signal of the belt B is invalid, the belt B stops

		running after the belt running time . Initial value: 5.0; range: 0.0 to 9.9. (unit s)
	Used to set the valve scale mode relate	d parameters
	1. The time delay before the bag	The delay time before the bag is started at the same time when the loose bag starts to start . Initial value : 0.5 ; range: 0.0 to 9.9 . (unit s)
Valve port scaleparameter	2. bag effectivetime	The time is started after the delay timebefore the bag is lifted, and the bag signal output is valid. After the time is over, the bag signal output is invalid. Initial value : 0.5 ; range: 0.0 to 9.9 . (unit s)
scaleparameter	3. Push bagsDelay Time	When the loose bag start delay starts, the delay time before pushing the bag is started at the same time. Initial value : 0.5 ; range: 0.0 to 9.9 . (unit s)
	4. Push the bag effective time	The time is started after the delay timebefore pushing the bag , and the push bag signal output is valid. After the time is over, the push bag signal output is invalid . Initial value : 0.5 ; range: 0.0 to 9.9 . (unit s)

3.2 system and communication parameters

Under the system and communication parameters interface:

• Click the sub-option button to enter the corresponding parameter item to view and set the attribution parameter information.

• Press [Back] to exit the current interface and return to the previous interface.

System andcommunicationparameters	parameter	Description
Weightparameter	 Criteria of Stability range 	During the judgment time, the weight change range is within this set value and the meter judges that the scale is stable. Initial value: 2 ; Range: 0 to 99 (d) .
	2. Criteria of Stability time	First value: 0.3; range: 0.1 to 99.
	3. Clear range	The range can be cleared . Initial value: 50 ; Range: 1 to 99 (% of full

		scale) .
	3. Zero trackingrange	The weight value is within this range and the meter is automatically cleared.When it is 0 , zero tracking is not performed. Initial value: 0 ; range: 0 to 9 (d) .
	5. Zero TimeTracking	First Value: 20; range: 0.1-9 9.9. (unit s)
	6. A / Dsampling rate	 A/D sampling rate. 120 times / sec, 240 times / sec, 480 times / sec, 960 times / sec. Initial value: 480 times / sec.
	1 . Stop filteringlevel	Filter strength rating in the stopped state. Initial value : 7 ; range 0 ~ 9 .
	2. Secondary filter switch	On/off optional, secondary filtering based on digital filtering. Initial value: off.
Filteringnovemeter	3. Dynamic filter switch	During the packaging process, whether to perform the filter operation switch and set "On", the following three parameters are valid.
Filteringparameter	4. Filter feed grade	Filter parameters during feeding: 9 : The filtering effect is the strongest. Initial value: 2 ; Range: 0 to 9 .
	5 level filter setting	Filter parameters during the setting process: 9 : The filtering effect is the strongest. Initial value: 7 ; Range: 0 to 9 .
	6. Unloading smoothing grade	Filter parameters during unloading: 9 : The filtering effect is the strongest. Initial value: 1 ; Range: 0 to 9 .
	1. The power-on clear switch	On / off is optional. When it is "on", the instrument will automatically perform the clear operation when the power is turned on (the weight inside the scale bucket meets the clearing range). Initial value: off
Functionalparameter	2. The interval is automatically cleared	Clear the number of times after completing the packaging process. When entering the first packaging process in the running state, the meter is not cleared. Initial value: 0 ; Range: 0 to 99 . (Note: This parameter is valid only for the metering hopper packaging mode.)
1	3. Run sentenced	Initial value: 0.0 ; range: 0 .0 \sim 9 9.9 .(unit s)

	stabletimeout	
	Stabletimeout	
	4. setting mode	Stable value: After the slow feed is turned off, the weight is stabilized and the set value process is completed. Delay setting: After the slow feeding is turned off, the fixed value is completed after the fixed value is maintained. Initial value: a stable value.
	5. Accumulated discharge switchmanually	On/Off is optional; set to "On", the manual unloading weight value is included in the accumulated value; initial value : off.
	6. Wt hold switchsetting	On/Off is optional; set to "On", the weight display remains unchanged after the end of the set time, and the weight changes again after the discharge starts. Initial value : off.
	7. Adaptive rating	The higher the grade , the faster thefeed rate and the lower the accuracy. Initial value: 3 ; Range: 1 to 5 .
	8 adaptiveswitch	Adaptive function, before touching the amount of slow and fast cut-off determination time during the operation of the automatic adjustment when switching on the instrument. Optional off , double speed, three speed. Initial value: off . (note: 1. All advances must be zero in order to be used normally. 2. If the drop correction and the adaptive function are turned on at the same time, the drop correction function is forcibly turned off. 3. When the first scale is adaptively started, the scale body must be stable and the current weight is zero.
	1. scale structure	There are bucket packaging / no bucket / PLC / ton bag / valve port packaging available. Initial value: There is a bucket packaging.
Scale bodystructure	2 operating modes	Optional single scale , interlock A, interlock B. Initial value : single scale .
	3. Packing mode	The net weight packaging mode first removes the tare weight at the beginning of the quantification and performs the quantitative

		packaging process with the net weight value.(effective in non-fighting mode) Gross weight packaging / net weight packaging is optional. Initial value: net weight packaging .
	4. The movement of the carriageway	
	5. feedingmethods	Optional separate feeding and combined feeding. Initial value : combined feeding.
	6. Dual modescales loose bags	In the bucketless interlock mode, the loose bag mode is optional: Not loose at the same time; At the same time loose bag 1 ; At the same time loose bag 2 . Initial value: no loose bags at the same time . Loose bags are not simultaneously:after completion of loose packing bags,to be A / B Scale all loose bags, the meter control signal output conveyor,the conveyor starts. At the same time, the loose bag 1: for the normal mode, the scale has been fed, and the other scale has not been fed yet. After the other scale is completed, the two scales are loose at the same time. If one scale has been fed and the other scale is not in the bag (feeding) state, then the other scale is not waiting, and the scale is directly loose. At the same time loose bag 2: for the quick mode in this mode, the default Ascale is in the front B scale . Thecompletion of the A scale feeding will not judge whether B is completed or not, and directly loose the bag. After the B feeding is completed, it is judged whether A is in the state of the bag (feeding): if A is feeding, B should wait for the A to be added and then loose the bag; if A is not feeding, B does not need to wait for the loose bag.
	1. Slave No.	Initial value: 1 ; 1 ~ 9 9 optional.
Serial port 485	2.Communication	Initial value: Modbus-RTU . Modbus-RTU / Print / Continuous Mode / MD-R (compatible

		with 01. version) isoptional.
	3. Baud Rate	Initial value: 38400 ; 9600/19200/38400/57600/115200 optional.
	4. Data Format	Initial value: 8-E-1 (8 -bit data bit -even parity - 1 stop bit) ; 8-E-1/8-N-1/7-E-1/7-N-1 is optional.
	5. Modbuslevel word	 Modbus communication display mode: Initial value: AB-CD (high word first); AB-CD (high word first) / CD-AB (low word first) optional.
	1. Slave No.	Initial value: 1 ; 1 ~ 9 9 optional.
	2.Communication	Initial value: Modbus-RTU . Modbus-RTU / Print / Continuous Mode / MD-R (compatible with version 01.) isoptional.
Serial port 232	3. Baud Rate	Initial value: 38400 ; 9600/19200/38400/57600/115200 optional.
Serial port 232	4. Data Format	Initial value: 8-E-1 (8 -bit data bit -even parity - 1 stop bit) ; 8-E-1/8-N-1/7-E-1/7-N-1 is optional.
	5. Modbuslevel word	Modbus communication display mode: Initial value: AB-CD (high word first); AB-CD (high word first) / CD-AB (low word first) optional.
	1.Communication	M odbus-TCP/IP , address table viewsection 5.3.3
Network port	2. Modbuslevel word	Modbus communication display mode: Initial value: AB-CD (high word first); AB-CD (high word first) / CD-AB (low word first) optional.
	3. Port Number	Initial value : 1; 1 ~ 65535 optional .
	4. IP address	Initial value : 0; 0 ~ 255 optional .
	5 . MAC	BC.66.41.9X.XX.XX

3.3 peripheral parameters

Under the peripheral parameter interface:

- Click the sub-option button to enter the current parameter item to view and set the attribution parameter information.
- Press [Back] to exit the current interface and return to the previous interface.

Peripheral parameter item	parameter	Description
	1. Bag knock mode	Bag mode selection;

		Initial value: Do not knock the bag.
		Optional:
		There is a bucket mode: the bag is not
		available after the bag / set value;
		No fighting mode: Sign bag/bags after
		setting Sign / addition in the film
		bag/bags beat plus values were
		correctly predicted;
		T packet mode: Sign bag / bags after
		setting Sign / addition in the film
		bag/bags beat plus values were
		correctly predicted;
		Port mode: Sign bag / bags after setting
		Sign / addition in the film bag / bags beat
		plus values were correctly predicted;
		PLC mode: Sign bag / bags after setting
		Sign / addition in the film bag / bags beat
		plus values were correctly predicted;
		· /· ·
		It is effective in the no-bucket, tonnage,
		and valve-mouth scale mode. When the
		bag is fed in the feeding mode, the
	2. Sign bags initial	current weight must be greater than or
	weight	equal to the starting weight of the
		bag before the bag is started.
		Initial value: 0 ; Range: 0 ~ Maximum
		range.
		Set the parameters for the number of
		knock in the feed . If set to 0, the bag will
		not be taken. Note: When the feeding
		process enters the slow addition, the bag
	3. In addition the bag	is forcibly ended in the feeding, regardless
	beat frequency	of whether the bag in the feeding is
		completed. (Do not take the bag during
		· · ·
		the feeding after entering the small shot)
		Initial value: 0; Range: 0~99 .
		After the fixed value, the number of times
	4. After setting the	the bag is set, the number of times the
	number of knock bags	bag is taken.
		Initial value: 4 ; Range: 0~99 .
		After the bag is started, the bag output is
	5 knock front pocket	valid after this delay time.
	delay	Initial
	·	value : 0.5 ; Range : 0.0~99.9 . (units)

	6 knock Bag effective time	During the on-off cycle of the bag, the bag output valid time. Initial value: 0.5 ; Range: 0.0~99.9 . (unit s)
	7. knock bags invalid time	In the on-off cycle of the bag, the bag output invalid time. Initial value: 0.5 ; Range : 0.0~99.9 . (unit s)
	8.Additionaloutput valid time to knock bags	Generally used in the anchor bag function. (Note: Extra shot bag is invalid in PLCmode) After all the bags are finished, the additional bag output is added once, and the effective time is set to the time. The invalid time is "the bag invalid time". Initial value: 0.0 . Range : 0.0~99.9 . (units) (Note: the time when the loose bag is delayed is not changed, or the "lead bag delay" time is started after all the original bag output ends effectively, that is, the effective time of the extra bag output is started after the bag output valid time is over. To achieve the abutment function, the time and the "loose bag delay" time should be set appropriately, but the time setting shouldgenerally be greater than the "loose bag delay", that is, the bag should be loosened first, then the bag mechanism will rise again).
	1. a code switch	On/off optional; set to "on", the meter has a code output function; Initial value : off.
Code parameter	2. Start coding delay	The pocket is completed, and the output is valid after the delay; Initial value: 0 .5 ; Range: 0.0~99.9 . (units)
	3. Coding effective time	The effective time of coding; Initial value: 0 . 5 ; Range: 0.0~99.9 . (unit s)
	4 shall not be allowed / unloading switch coding	On/Off is optional; set to "On", it is not allowed to start feeding (no bucket mode) output or unloading (with bucket mode)

		and a state of the state of the
		output during coding .
		Initial value : off.
		On/off optional; set to "on", the meter
	1. Conveyor switch	has a conveyor output function;
		Initial value : off. The no-bucket mode is
Conveyor		valid.
parameters	2. Conveyor start-up	After the delay of the loose bag, the
	delay	meter judges that the conveyor is started.
		Initial value: 0.5 ; range: 0~99.9 . (unit s)
	3. The conveyor running	Conveyor runtime setting.
	time	Initial value: 4.0 ; range: 0~99.9 . (unit s)
		On/Off is optional; when "On" is
		selected, the package result will be
	1. Automatic print	printed out automatically every time the
	switch	package is completed (the serial port
		should be selected as "Print").
		Initial value: off.
Print parameters		Initial value: 24 columns of
	2. Print format	printing ; 24 columns of printing
		/ 32 columns of printing.
	3. Print language	Initial value: Chinese ; Chinese / English
		optional.
	4. Print the number of	The number of lines after the print is
	lines	completed.
		Initial value: 3 ; 0~9 optional.
		After the sewing machine start switch is
	1. The sewing machine start-up delay	activated, the sewing machine delay time
		is started .
		Initial
		value: 0.5 . Range: 0.0~99.9 . (unit s)
		After the delay time has elapsed, the
		sewing machine output is started and the
	2. The sewing machine	sewing machine output time
Sewing machine	output time	is continuously output .
		Initial
		value: 4.0 . Range: 0.0~99.9 . (unit s)
		After the sewing machine output time is
	2 Tangant autout the	over, the thread trimmer output is started
	3. Tangent output time	and the cutter output time is continued.
		Initial value: 0.5 . Range: 0.0~99.9 . (unit s)
	4 The equilibrium	
	4. The sewing machine	After the work is completed and cutting

	stop delay	machine, sewing machine continues to work, sewing machine stop delay time after up to stop. Initial value: 0.5 . Range: 0.0~99.9 . (unit s)
	1. Open the discharge rap (knock)	Initial value : 0 ; range 0~1 . (0 : open; 1 : off)
Unloadingrapping parameter	2. The effective discharge time	When the fixed value is maintained, the discharge effective time is from the time when the discharge signal is output to the time when the discharge is completed and the discharge delay is started. If the discharge time exceeds this time, it is considered abnormal, and the discharge rapping action is started. Initial value : 2.0 ; range 0.0~9.9 . (unit s)
	3. Discharge rapping effective time	Initial value : 0.5 ; range 0.0~9.9 . (unit s).
	4. Discharge rapping ineffective time	Initial value : 0.5 ; range 0.0~9.9 . (unit s)
	5.Discharge rapping times	Initial value : 10 ; range 0 ~ 99 .
	1. Timeout detection switch	Add and discharge timeout judgment switch. After the opening , the loading and unloading timeout judgment is performed in the running state . Initial value : off .
Adding and	2 Fast time feeding overtime	In the running state, after the fast output exceeds the time, the output timeout alarm is issued and the machine stops. Initial value : 5.0 ; range 0.0~99.9 . (units)
discharging timeout judgment	3. Medium feeding timeout	In the running state, after the output is over this time, the output timeout alarm is issued and the machine stops. Initial value : 5.0 ; range 0.0~99.9 . (units)
	4. Slow feeding timeout	In the running state, after the slow output exceeds the time, the output timeout alarm is issued and the machine stops. Initial value : 5.0 ; range : 0.0~99.9 .(unit s)
	5. Discharge time out	In the running state, after the discharge output exceeds this time, the output

		timeout alarm and stop.
		Initial
		value : 5.0 ; range : 0.0~99.9 .(unit s)
	1. The auxiliary	Auxiliary pulse 1 performs the total
	pulse 1total execution	time. If it is 0 , it will be executed all the
	time	time.
		Initial
		value : 0 ; range : 0.0~999.9 .(unit s)
	2. 1 effective auxiliary	Initial
	pulse time	value : 10.0 ; range : 0.0~999.9 .(unit s)
	3. The auxiliary	Initial
	pulse 1 invalid time	value : 10.0 ; range : 0.0~999.9 .(unit s)
	4. The total run time of	Auxiliary pulse 2 performs the total
	the auxiliary pulse 2	time. If it is 0 , it will be executed all the
		time.
		Initial
		value : 0 ; range : 0.0~999.9 .(unit s)
	5. 2auxiliary pulse	Initial
	effective time	value : 10.0 ; range : 0.0~999.9 .(unit s)
	6. Invalid auxiliary	Initial
Auxiliary pulse	pulse time 2	value : 10.0 ; range : 0.0~999.9 .(unit s)
parameter	7. The total run time of	The auxiliary pulse 3 performs the total
	the auxiliary pulse 3	time. If it is 0 , it will be executed all the
	, ,	time.
		Initial
		value : 0 ; range : 0.0~999.9 .(unit min)
	8.3 the auxiliary pulse	Initial
	effective time	value : 10.0 ; range : 0.0~999.9 .(unit min)
	9. invalid auxiliary	Initial
	pulse 3 times	value : 10.0 ; range : 0.0~999.9 .(unit min)
	puise sumes	
		The auxiliary pulse 4 performs the total
	10. The total run time	time. If it is 0 , it will be executed all the
	of the auxiliary pulse 4	time.
		Initial value : 0 ; range : 0.0~999.9 .(unit min)
		value. U, Talige. U.U 333.3 .(Utill Min)
	11. 4 auxiliary pulses	Initial
	effective time	Initial value : 10.0 ; range : 0.0~999.9 .(unit min)
		Initial

Under the motor parameter interface:

- Click the sub-option button to enter the current parameter item to view and set the attribution parameter information.
- Press [Back] to exit the current interface and return to the previous interface.

Motor parameter item	parameter	Description		
Motor parameters	1. Formula number	The recipe currently in use. Initial value: 1 ; Range: 1~20 .		
	2. Motor group number used in the current recipe	The feed motor group number corresponding to the current recipe. Initial value: 0 , range 0~4 .		
	1. Feed mode	 Initial value: pneumatic feeding; Optional: 0, pneumatic mode; 1, stepper motor feeding; 2, ordinary motor mode. 		
	2. Feeding door closing timeout	Initial value: 4.0 ; range: 0.0~99.9 .		
	3. Feeding door closes in place signal type	Initial value: 0 ; Type optional : 0 : The signal is in place when it is valid; 1 : When the signal is invalid , it is in place .		
	4. Feeding motor group number	Initial value: 0 ; Range: 0~4 Feeding motor group number setting.		
	5. Feeding motor frequency	Initial value: 12000 ; range: 1~50000 .		
Feeding parameter	6. Close to slow increase the number of pulses required	Initial value: 1800 ; Range: 1~60000 .		
	7. Close the number of pulses required to add	Initial value: 4300 ; range: 1~60000 .		
	8. Close to fast increase the number of pulses required	Initial value: 7750 ; range: 1~60000 .		
	9. Adding door opening direction signal status	Feeding door opening motor rotation direction signal state Initial value: when the signal is invalid, it is the direction of opening the door;		

		Optional: When the 0 signal is invalid, the door opening direction is : when the feeding door is opened, the signal output of the feeding stepping motor is invalid, and the direction signal output is valid when thedoor is closed . A valid signal to the door opening direction: door open when loading operation, the rotation direction of the stepping motor to feed the signal output valid signal is output when the closing operation direction invalid.		
	10. Feed motor starting frequency	Feed motor starting frequency Initial value: 2000 ; Range: 0~50000 . (Note: this value cannot be greater than the feeding motor frequency)		
	11. Feed motor acceleration time	Feed motor acceleration time (in ms) Initial value: 200 ; range: 0~9999 .		
	12. Feed motor deceleration time	Feed motor deceleration time (in ms) Initial value: 50 ; range: 0~9999 .		
	13. Quickly open the door	The time it takes for the loading door to open to the quick-add (fast-add) position. Initial value: 0.8 0 ; Range: 0~99 . 99 . (unit s)		
	14. China andCanada openingtime	The time it takes for the feed door to open to the middle (plus) position. Initial value: 0.4 0 ; Range: 0 . ~99.99 . (unit s)		
	15. Slow opening time	The time it takes for the feed door to open to the slow (slow plus) position. Initial value: 0.2 0 ; Range: 0~99.99 . (unit s)		
Clip loose bag parameters	1 , pocket mode	 Initial value: 0, pneumatic clamp loose bag; Optional: 0, pneumatic clip loose bag; 1, stepper motor clip loose bag; 2, motor double limit clip loose bag; 3, motor single limit clip loose bag. 		
	2 , loose bag process timeout	Initial value: 3.0 ; range: 0.0~99.9 . (unit s)		
	3 , the bagging process timeout	Initial value: 3.0 ; range: 0.0~99.9 . (unit s)		
	4, loose bag inplace signalstatus	Initial value: 0 ; Optional: 0 : The signal is in place when it is valid;		

		1 : When the signal is invalid, it is in place .	
	5 , pocket motor frequency	Initial value: 30000 ; range: 1~50000 .	
	6 , loose bag motor frequency	Initial value: 20000 ; range: 1~50000 .	
	7, the number of pulses required to pocket	Initial value: 12000 ; range: 1~60000 .	
	8, the motor direction signal statefolder bag	 Initial value: 0; Optional: 0: the entrainment direction when the signal is invalid; 1: Entrainment direction when the signal is valid. 	
	9 , the pocket motor starting frequency	Initial value: 2000 . (Note: this value cannot be greater than the pocket frequency)	
	10 , pocket motor acceleration time	Initial value: 200 ; range: 0.0~99.99 . (unit m s)	
	<pre>11, bag motor deceleration time</pre>	Initial value: 50 ; Range: 0.0~99.99 . (unit m s)	
	12 , loose bag effective time	Initial value: 0. 5 ; range: 0.0~99.99 . (unit s)	
Discharge parameter	1 , unloading mode	 Initial value: 0 pneumatic discharge; Optional: 0 : pneumatic mode ; 1 : Stepping motor unloading; 2 : motor single limit discharge; 3 : motor double limit discharge; 4 : The motor rotates in one direction. 	
	<pre>2, discharge closing timeout time</pre>	Initial value : 3.0 ; range: 0.0~99.9 . (unit s)	
	3 , discharge opening timeout time	Initial value : 3.0 ; range: 0.0~99.9 . (units)	
	4 , discharge in place signal type	Initial value: 0 ; Optional: 0 : The signal is in place when it is valid;	

		1 : When the signal is invalid, it is in place .
	5 , discharge limit real-time detection switch	On/off is optional; when "On" is selected, the limit signal is detected in real time; when "Off", the limit signal is detected only when the feed is started. Initial value: off.
	6, discharge door opening motor frequency	Initial value : 30000 ; range: 1~50000 .
	7 , discharge closing motor frequency	Initial value : 20000 ; range: 1~500 00 .
	8, the number of pulses required for unloading	Initial value : 12000 ; range: 1~60000 .
	9 , the discharge direction signal status	
	10 ,dischargemotorstartingfrequency	Initial value: 2000 ; range: 0~50000 . (Note: this value cannot be greater than the discharge frequency)
	11,thedischargemotoraccelerationtime	Initial value: 200 ; range: 0.0~99.99 . (in ms)
	12, unloading motor deceleration time	Initial value: 50 ; range: 0.0~99 . 99 . (in ms)
	13, dischargeopening timeoutput time	Initial value : 1.00 ; range : 0.00~99.99 .(unit s)

3.5 calibration

The calibration scale is the calibration of the instrument. When the **GM9907** packaging controller or any part of the weighing system is changed for the first time and the current equipment calibration parameters cannot meet the user's requirements, the controller should be calibrated. The calibration scale parameter directly affects the weighing result of the instrument. To prevent personnel from mis operation, the administrator and the system administrator are required to log in to calibrate the instrument (select the identity login in the [User Login] option).

The calibration scale parameter of the national standard symmetrical heavy instrument requires password protection. Therefore, the

password must be entered correctly when entering the calibration parameters (initial password: **000000**); the calibration password is changed in the "Password Management" item of [System Information].. Under the calibration scale interface:

- Click the sub-option button to enter the current parameter item to view and set the attribution parameter information.
- Press [Back] to exit the current interface and return to the previous interface.

Calibration scale parameter	School scale child	Description	
Weighing parameter	1 unit	Initial value: kg ; g/kg/t/lb is available.	
	2. Decimal point	. Initial value: 000; 0 to 0.0000 five kinds of options.	
	3. Minimum division	Initial value: 1 ; 1/2/5/10/20/50 six optional .	
	4. Maximum range	Initial value: 100.00 ; The range is less than or equal to the minimum division $ imes$ 10 0000 can be set .	
Empty scale calibration	Current weight	Display current weighing platform weight value	In this interface, after clearing the weighing platform (scale bucket) is stable, press the [empty scale
	Current voltage value	Display current sensor output voltage value	calibration] button to calibrate the current state to zero.
Weight calibration scale	Current weight	Display current weight value	In this interface, load the weight on the weighing platform (weighing
	Gain voltage value	Display load weight output voltage value	bucket). After stabilization, press [GainCalibration to pop up the dialog box, enter th weight value of the weight, an complete the calibration of th weight value of the instrument.

3.6 Cumulative and batch

Click the sub-option button to enter the current parameter item to view and set the attribution parameter information.

• Press [Back] to exit the current interface and return to the previous interface.

• Under the "Total Accumulation and Batch" parameter, the user can view the total accumulated value and accumulated times under the formula, and clear and print the accumulated.

• Click [Clear Total Accumulation] on the "Total Accumulation and Batch" interface, enter the clear accumulated password to delete the total accumulated and all formula accumulations and all user accumulates.

• Click [Clear All Receipts] on the "Recipe Accumulation" interface , and enter the clear accumulated password to delete all recipes.

Click [Clear All Users Accumulate] on the "User Accumulation" interface, and enter the clear accumulated password to delete

all user accumulates.

• Click the formula to be deleted in the formula accumulation interface, and enter the clear accumulated password to delete the accumulated content of the selected formula.

• In the user cumulative interface, click on the user to be deleted, and enter the clear accumulated password to delete the accumulated content of the selected user.

• If the serial port is set to print, according to a corresponding cumulative total cumulative interface [Print], [print selected recipe total], [all recipes accumulated print], [print] accumulated selected users, all users [print] accumulated; if No serial port is set to print. Pressing the above button on the corresponding cumulative interface will prompt "No serial port is set to print mode and cannot be printed"

• In total cumulative batch to batch interface provided [] set the number of batches, such as when the number of batches completed set, playing the instrument in the main interface box prompts"batch to complete" alarm and shutdown, the processing waits for the user, then Make the "clear alarm" input signal valid, or click the "clear alarm" button to clear the above alarm, or enter the emergency stop to return to the stop state.

Note : If you work in combination mode, the batch count counter is incremented by **1 when the** number of combinations is completed. The set number of batches and the accumulated batch number are saved after power down. 3.7 switching

The GM9907 provides 12 inputs and 16 output interfaces to interface the instrument with external devices.

The input and output factory definition contents are as follows (output **1** - **16** corresponds to the instrument **OUT1** ~ **OUT16** interface, input **1** - **12** corresponds to the instrument **IN1** ~ **12** interface).

There are hopper scales default definition:

Output		Input quantity	
Output port -1	O1 running	Input port - 1	I1 start
Output port -2	O2 stop	Input port - 2	12 emergency stop
Output port -3	O3 fast	Input port - 3	I3 slow stop
Output port -4	O4 Canada	Input port - 4	I5 clear
Output port -5	O5 slow plus	Input port - 5	I6 clear alarm
Output port -6	O6 pocket	Input port - 6	I8 total accumulated
Output port - 7	O7 setting	Input port - 7	I7 clip loose bag request
Output port -8	O8 scales aregood	Input port - 8	19 manual unloading
Output port - 9	O9 unloading	Input port - 9	I10 manual slow addition
Output port -10	O10 zone	Input port - 10	I11 manual fast
Output port -11	O11 shot bag	Input port - 11	I13 formula
Output port -12	O13 feeding	Input port - 12	I12 clearing material
Output port -13	O14 lack of material	Note: In interlock mode. Input port -12 is the interlock input.	
Output port -14	O15 alarm		ne dual scale interlock
Output port - 15	O17 batch completed	output.	
Output port -16	O16 super poor		

Output		Input quantity		
Output port -1	O1 running	Input port - 1	I1 start	
Output port -2	O2 stop	Input port - 2	12 emergency stop	
Output port -3	O3 fast	Input port - 3	13 slow stop	
Output port -4	O4 Canada	Input port - 4	I4 suspended	
Output port -5	O5 slow plus	Input port - 5	I5 clear	
Output port -6	O6 pocket	Input port - 6	I6 clear alarm	
Output port -7	O7 setting	Input port - 7	18 total accumulated	
Output port -8	O10 zone	Input port - 8	17 clip loose bag request	
Output port -9	O11 shot bag	Input port - 9	I10 manual slow	
			addition	
Output port -10	O15 alarm	Input port - 10	I11 manual fast	
Output port -11	O13 feeding	Input port - 11	I13 formula	
Output port -12	O27 loose bag	Input port - 12	I12 no definition	
Output port -13	O14 lack of	Note: In interlock mod	le.	
	material	Input port -12 is chang	ged to interlock input .	
Output port -14	O17 batch	Output port -12 is cha	nged to missing material.	
	completed	Output port- 13 is cha	nged to batch completion.	
Output port -15	O16 super poor		changed to the sewing	
		machine output.		
Output port - 16	O44 sewing	Output port -15 is changed to conveyor output.		
	machine output		changed to dual scale	
		interlock output.		

P LC mode default definition:

Output	Output		Input quantity	
Output port -1	O3 fast	Input port - 1	I5 clear	
Output port -2	O4 Canada	Input port - 2	I6 clear alarm	
Output port -3	O5 slow plus	Input port - 3	No definition	
Output port -4	O38 tolerance (PLC)	Input port - 4	No definition	
Output port -5	O39 poor (PLC)	Input port - 5	No definition	
Output port -6	O49 upper limit	Input port - 6	No definition	
Output port -7	Lower limit of O41	Input port - 7	No definition	
Output port -8	No definition	Input port - 8	No definition	
Output port -9	No definition	Input port - 9	No definition	
Output port -10	No definition	Input port - 10	No definition	

Output port -11	No definition	Input port - 11	No definition
Output port -12	No definition	Input port - 12	No definition
Output port -13	No definition		
Output port -14	No definition		
Output port -15	No definition		
Output port -16	No definition		

Ton scales default definition:

Output		Input quantity	
Output port -1	O1 running	Input port - 1	l1 start
Output port -2	O2 stop	Input port - 2	12 emergency stop
Output port -3	O3 fast	Input port - 3	I3 slow stop
Output port -4	O4 Canada	Input port - 4	I4 suspended
Output port -5	O5 slow plus	Input port - 5	I5 clear
Output port -6	O6 pocket	Input port - 6	I6 clear alarm
Output port -7	O31 hanging bag	Input port - 7	18 total accumulated
Output port - 8	O3 measuringbracket uplink	Input port - 8	17 clip loose bag request
Output port -9	O7 setting	Input port - 9	I32 bag request
Output port - 10	O10 zone	Input port - 10	I3 manual control bracket up / down
Output port -11	O33 return valve	Input port - 11	I19 manual slow addition
Output port -12	O32 blowing	Input port - 12	120 manual fast
Output port -13	O15 alarm		
Output port -14	O17 batch completed		
Output port -15	No definition		
Output port -16	No definition		

The valve port scale is defined by default:

Output		Input quantity	
Output port -1	O1 running	Input port - 1	I1 start
Output port -2	O2 stop	Input port - 2	12 emergency stop
Output port -3	O3 fast	Input port - 3	I3 slow stop
Output port -4	O4 Canada	Input port - 4	I4 suspended
Output port -5	O5 slow plus	Input port - 5	I5 clear
Output port -6	O6 pocket	Input port - 6	I6 clear alarm
Output port -7	O7 setting	Input port - 7	I8 total accumulated
Output port -8	O17 batch	Input port - 8	17 clip loose bag request
	completed		

Output port -9	O10 zone	Input port - 9	I10 manual slow addition
Output port -10	O11 shot bag	Input port - 10	I11 manual fast
Output port -11	O13 feeding	Input port - 11	I13 formula
Output port -12	O15 alarm	Input port - 12	I12 no definition
Output port -13	O16 super poor		
Output port - 14	O30 push bag signal		
Output port -15	O29 bag signal		
Output port -16	No definition		

3.7.1 Output, input port definition

The output port and input port contents can be defined according to the actual application. Under the switch interface:

- Click the sub-option button to enter the current parameter item to view and set the attribution parameter information.
- Press [Back] to exit the current interface and return to the previous interface.

Switch content description

Output	Dutput			
Code	content	Description		
00	No definition	If the port number is defined as ${\bf 0},$ this output port is undefined.		
01	run	When the meter is in the running state, the output port signal is valid.		
02	stop	When the meter is in the stop state, the output port signal is valid.		
03	Quick add	Used to control the large discharge port of the feeding mechanism. During the feeding process, when the current weight is less than the target value -faster advance amount, the output port signal is defined as valid.		
04	China and Canada	Used to control the middle discharge port of the feeding mechanism. During the addition, the current weight is less than the target value - added inadvance during the definition output signal is active.		
05	Slow plus	Used to control the small discharge port of the feeding mechanism. During the feeding process, when the current weight is less than the target value -fall difference, the output port signal is defined as valid.		
06	Pocket	It is used to control the pocket mechanism, and the signal effectively realizes the pocket; the signal is invalid, that is, the loose bag.		
07	Value	Used to indicate the end of the feeding process. The output port signal is valid before the end of the slow addition to the discharge (with bucket) or the bag (no bucket).		
08	Weigh	After the setting is completed, the output port signal is valid.		
09	Unloading	A discharge door for controlling the measuring bucket. The defined output port signal is valid when the discharge is started, so that the material is discharged from the measuring bucket into the package.		
010	Zero zone	When the current weight of the scale is less than the set near zero value, the output port signal is valid.		
011	Shooting bag	Used to control the bag making machine. A pulse signal with a controlled pulse width and number of times.		

012	Cutting	This output is valid during the feed and is not valid during the non-feed period .
013	supply	The feeding mechanism for controlling the front end of the packaging scale, when the feeding hopper lower level input (the lower material level input is defined) is invalid, the output is valid; when the feeding hopper upper material level (the loading level input is defined) is valid, The meter invalidates this output.
014	Missing material	When the blanking input is defined and the input is invalid, the output is valid. When the hopper lowering level (the lowering input is defined) is valid, the meter invalidates the output.
015	Call the police	When the meter has an out-of-tolerance, batch number, etc. alarm, the output port signal is valid.
016	Super poor	When the tolerance or undershoot is exceeded, the output signal is defined as valid.
017	Batch completion	When the set number of batches is completed, the output port signal is valid.
018	Double scaleinterlock output	Used in the double scale mode, connected to the switch "Double scale interlock input" of another meter.
019	Feed pulse output	When the feeding mode is set to stepper motor mode to control the feeding door switch: This signal isused as a pulse signal output to the feeding stepper motor driver to control the motor rotation. Note: This function can only be defined on one of the ports of OUT12~16.
020	Feeding direction signal	When the feeding mode is set to stepper motor mode to control the feeding door switch: This signal isused as the motor rotation direction signal output to the feeding stepping motor driver to control themotor to reverse. Note: This function can only be defined on one output port. There can be no multiple output ports to define this function. And can only be defined to one of the ports OUT1~11.
021	Pinch bag pulse output	When the bag mode is set to the stepping motor mode control clip loose bag: This signal is used as the output pulse signal to the pinch stepper motor driver to control the motor rotation. Note: This function can only be defined on one of the ports of OUT12~16.
022	Clip pocket direction signal	When the bag mode is set to the stepping motor mode control clip loose bag: This signal is used as the motor

		rotation direction signal output to the pinch bag stepping motor driver to control the motor to reverse. (No bucket mode is valid) Note: This function can only be defined on one output port. There can be no multiple output ports to define this function. And can only be defined to one of the ports OUT1~11. When the unloading mode is set to stepper motor mode to control unloading: this signal is used as a pulse signal output
023	Discharge pulse output	to the discharge stepper motor driver to control the motor rotation. Note: This function can only be defined on one of the ports of OUT12~16.
024	Discharge direction signal	When the unloading mode is set to stepper motor mode to control unloading: this signal is used as the motor rotation direction signal output to the discharge stepper motor driver to control the motor to reverse. Note: This function can only be defined on one output port. There can be no multiple output ports to define this function. And can only be defined to one of the ports OUT1~11.
025	Adding a door	When the feeding mode is set to the normal motor mode to control the feeding door switch: the large discharging port for controlling the weighing mechanism is opened. This signal is active at the beginning of the feeding process and the effective time is set in the motor parameters.
O26	Adding material closes	When the feeding mode is set to the normal motor mode to control the feeding door switch: it is used to control the action of closing the feeding port of the feeding mechanism. The signals are valid at the time of fast addition, medium addition and slow addition respectively. The effective time is based on the time parameter set in the motor parameters. It is decided that the signal is valid at the end of the feed until it becomes invalid when the feed limit is valid.
027	Loose bag	When the bag mode is set to the ordinary motor control clip loose bag: it is used to control the loose bag. When the signal is valid, the motor is driven to perform the loose bag action. When the signal is invalid, the loose bag action stops.
O28	Discharge closing	When the unloading mode is set to normal motor forward and reverse control discharge, it is used to control the closing action of the metering bucket discharge door. When the signal is valid, the motor is driven to open and

		close the door. When the signal is invalid, the door closing action stops.
O29	Bag signal	It is used to control the bag-making mechanism, and this signal effectively realizes the bag-liftingaction .
O30	Push bag signal	It is used to control the push bag mechanism, and the signal effectively realizes the push bag action.
031	Hanging bag	It is used to control the bag mechanism, and the signal effectively realizes the hanging bag; the signal is invalid and the hook is loose.
032	Blowing	For controlling the operation of the blowing means, at the end of the metering bracket upward, the signal is valid.
O33	Return valve	Return valve for controlling the run, at the end of blowing, the signal is valid.
034	Meteringbracket up(this parameter is reserved)	Used to control the upstream of the metering bracket. This signal is valid until the upper limit is valid if both the bag and the bag have been completed before feeding. This signal output is valid after the loose bag is completed. Until the lower limit input is valid.
035	Measuring bracket down (electric)(this parameter is reserved)	Used to control the downstream of the metering bracket . (When there is a bag making function, it needs to be started after the bag is finished) .
O36	Belt A (this parameter is reserved)	Electric mode, for controlling the operation of the belt A , the loose bags, the hook after the song, the signal is valid.
037	Belt B (this parameter is reserved)	Electric mode, for controlling operation of the belt B , the belt A is stopped, the signal is valid.
	,	Serte, the serter is stopped, the signal is value.
O38	Out of tolerance (PLC)	This signal is valid when it is out of tolerance (PLC).
O38 O39	·	
	Out of tolerance (PLC)	This signal is valid when it is out of tolerance (PLC).
039	Out of tolerance (PLC) Undershoot (PLC)	This signal is valid when it is out of tolerance (PLC). This signal is valid when there is a short circuit (PLC). When the weighing value > upper limit value, the upper limit
O39 O40	Out of tolerance (PLC) Undershoot (PLC) Upper limit (PLC)	This signal is valid when it is out of tolerance (PLC). This signal is valid when there is a short circuit (PLC). When the weighing value > upper limit value, the upper limit output is valid. When the weighing value < lower limit, the lower limit
039 040 041	Out of tolerance (PLC) Undershoot (PLC) Upper limit (PLC) Lower limit (PLC)	This signal is valid when it is out of tolerance (PLC). This signal is valid when there is a short circuit (PLC). When the weighing value > upper limit value, the upper limit output is valid. When the weighing value < lower limit, the lower limit output is valid. In the bucketless mode, it is used to control the start and stop of the conveyor. The signal is effectively activated by the conveyor and the signal is invalid and the conveyor is
039 040 041 042	Out of tolerance (PLC) Undershoot (PLC) Upper limit (PLC) Lower limit (PLC) Conveyorconveyor	This signal is valid when it is out of tolerance (PLC) . This signal is valid when there is a short circuit (PLC) . When the weighing value > upper limit value, the upper limit output is valid . When the weighing value < lower limit, the lower limit output is valid . In the bucketless mode, it is used to control the start and stop of the conveyor. The signal is effectively activated by the conveyor and the signal is invalid and the conveyor is stopped. The code signal is output when the pocket signal output is

	machine output	valid, and the effective time is the tangential machine output time .
O46	Auxiliary pulse output 1	After the auxiliary pulse input effective, the output pulse signal (valid for the auxiliary pulse an effective time, dead time of the auxiliary pulse a dead time), and outputs the total time to stop the output (the total time is set to 0 , it has been by Pulse output).
047	Auxiliary pulse output 2	After the auxiliary pulse 2 input is active, the output pulse signal (valid for the auxiliary pulse 2 effective time, dead time of the auxiliary pulse 2 dead time), and outputs the total time to stop the output (the total time is set to 0 , it has been by Pulse output).
O48	Auxiliary pulse output 3	After the auxiliary pulse 3 input is valid, the pulse signal is output (the effective time is theauxiliary pulse 3 valid time, the invalid time is the auxiliary pulse 3 invalid time), and after the output execution total time is reached, the output is stopped (the total execution time is set to 0 , then the button is pressed. Pulse output).
O49	Auxiliary pulse output 4	After the auxiliary pulse 4 input is valid, the pulse signal is output (the effective time is theauxiliary pulse 4 valid time, the invalid time is the auxiliary pulse 4 invalid time), and after the output execution total time is reached, the output is stopped (the total execution time is set to 0 , then the button is pressed. Pulse output).
O50	Unloading rapping	The output of the discharge rapping function.
051	Auxiliary logic output 1	Auxiliary logic 1 output signal.
052	Auxiliary logic output 2	Auxiliary logic output signal 2.
053	Auxiliary logic output 3	The output signal of the auxiliary logic output 3 .
054	Auxiliary logic output 4	The output signal of the auxiliary logic output 4 .
055	Auxiliary logic output 5	The output signal of the auxiliary logic output 5 .
056	Auxiliary logic output 6	The output signal of the auxiliary logic output 6 .
Input qua	ntity	
10	No definition	If the port number is defined as ${\bf 0},$ this input port is undefined.
l1	start up	The signal valid meter will enter the running state. This input

		is a pulse input signal.
12	Emergency stop	The signal valid meter will return to the stop state. This input is a pulse input signal.
13	Slow stop	The signal valid meter will return to the stop state after completing the current packaging process. This input is a pulse input signal.
14	time out	The signal valid meter will suspend work, retain the current state, and resume working after receiving the start signal . This input is a pulse input signal.
15	Clear	The signal valid meter will clear the weight. This input is a pulse input signal.
16	Clear alarm	Used to clear the alarm output of the meter. This input is a pulse input signal.
17	Clip loose bag request	It is used to control the action of the pocket mechanism. This input is effective for one pocket output, and the effective pocket output is invalid again (ie: loose bag).
18	Total accumulation	Clearing the total accumulated weight and number of times will also clear the recipe accumulation and user accumulation .
19	Manual unloading	Used to manually remove material from the measuring hopper. The input is effective once, the discharge output is valid, and the effective discharge output is invalid again.
110	Manual slow addition	The input is valid once and the output is valid, and the effective slow input is invalid again.
111	Manually add	Pulse type signal. Function in the stop state, used to manually turn the meter on and off. Effective once, it is effectively turned off again.
112	Clear material	Pulse type signal. Acting in the stop state, used toempty the storage hopper while opening the discharge door and the feed door. Effective once, it is effectively turned off again. (No action in bucket, PLC, valve port, ton package mode)
113	Selection formula	This input is valid once, the recipe number is changed to the next target whose value is not zero, and the recipe number with the target value of zero is skipped.
114	Feed level	Used to connect the upper level of the hopper, this input should be level input.
11 5	Cutting level	Used to connect the lower level of the hopper, this input should be level input. The blanking bit input is invalid or left blank to indicate the material shortage. The blanking level input is valid to indicate that there is no shortage of

		material.	
116	Start/emergency stop (level)	The signal is valid and the instrument enters the running state. If it is invalid, it returns to the stop state. This input is a level signal.	
117	Start/slow stop (level)	The signal valid instrument enters the running state, and if it is invalid, it returns to the stop state after completing the current packaging process. This input is a level signal.	
118	Manualunloading (level)	Used to manually remove material from the measuring hopper. The input effective discharge output is valid, and the input invalid discharge output is invalid.	
119	Manual slow addition (level)	The signal is effectively slow and the signal output is valid. The signal is invalid and the slow signal output is invalid.	
120	Manual quick addition (level)	The signal is valid and the signal output is valid. The signal is invalid and the signal output is invalid.	
121	Pocket in place (level)	If this input is defined, it effectively indicates that the pocket is in place, and vice versa . No fighting mode: the folder bag has state, the instrument must be detected "bag-in place" input active material began to increase, the process ofadding material, detecting whether the signal is notvalid. This input should be a level input.	
122	Discharge door opening door (level)	The unloading mode is set to the normal motor forward and reverse double limit mode to control the unloading: this signal is used as the limit input signal of the discharge door opening door. When theinstrument detects that the signal is valid, it considers that the discharge door has been opened.	
123	Feeding door closes in place(level)	When the unloading mode is set to normal motor forward and reverse double limit mode to control unloading: this signal is used as the limit input signal of the feeding door closing door. When theinstrument detects that the signal is valid, it considers that the feeding door has been closed.	
124	Discharge door closes in place(level)	This signal acts as a limit input signal for the discharge door to close the door. When theinstrument detects that the signal is valid, it considers that the discharge door has been closed.	
125	Loose bag in place (level)	The pocket mode is set to stepper motor clip loose bag / motor double limit clip loose bag mode control clip loose bag: This signal is used as the limit input signal of the pocket bag loose bag in place. (Note: This signal is determined by the type of in-position signal and is set to positive logic: when the input signal is valid, it is considered that the pocket mechanism has	

		been loosened in place ; set to reverse logic: when the input signal is invalid, it is considered that the pocket mechanism has beenloosened in place.)
126	Sewing machine start	When the digital input is valid, the effective output of the sewing machine is started.
127	Sewing machineemergency stop	When the digital input is valid, the sewing machine stops outputting.
128	Auxiliary pulseinput 1	A custom trigger input signal for auxiliary logic ${\bf 1}$.
129	Auxiliary pulseinput 2	A custom trigger input signal for auxiliary logic 2.
I 30	Auxiliary pulseinput 3	A custom trigger input signal for auxiliary logic 3 .
131	Auxiliary pulseinput 4	A custom trigger input signal for auxiliary logic 4.
132	Sling bag request	Used to control the movement of the bag mechanism.
133	Stand up in place	The upper limiter for connecting the metering bracket, this input should be a pulse input .
134	Bracket down in place	The lower limiter used to connect the metering bracket, which should be a pulse input .
135	Bracket down limit	The lower limiter for connecting the metering bracket, this input should be a pulse input .
136	Belt A stopsinput (this parameter is reserved)	In the electric mode, the stop detection sensor for connecting the belt A , which should be a pulse input.
137	Belt B stops input (this parameter is reserved)	In the electric mode, the stop detection sensor for connecting the belt B should be a pulse input.
138	Manual bracketup /down input	Used to control the motion of the stand, this input is a pulse input. The motion of the stand can be controlled in the stopped state. In the running state, it is the start signal of the motion of the bracket.
139	Interlock input	Used in the double scale mode, the switch "double scale interlock output" used to connect another meter.
140	Auxiliary logic output 1	A custom trigger input signal for auxiliary logic 1 .
141	Auxiliary logic output 2	A custom trigger input signal for auxiliary logic 2 .
142	Auxiliary logic output 3	A custom trigger input signal for auxiliary logic 3 .
143	Auxiliary logic output 4	A custom trigger input signal for auxiliary logic 4 .
144	Auxiliary logic	A custom trigger input signal for auxiliary logic 5.

	output 5		
145	Auxiliary	logic	The custom logic 6 's custom trigger input signal.
145	output 6		

3 .7 .2IO test

The user can check whether the instrument output and the input interface are connected to the external device through the **IO** test. **The IO** test interface is shown below: **Output port test** : In the **IO**test interface, the output test is started. After clicking the corresponding output port button, the interface port color is lit, and the corresponding external connection output status should be valid. If it is invalid, the connection is indicated. Abnormal, check the switching power supply input, wiring, etc. **Input test:** the test interface **IO**, when the external input signal is active, the interface corresponding to the input port defined light blue color lights. When the external input is valid, the interface does not respond, indicating that the connection is abnormal, check the switching power supply input, wiring, and so on.

7.I/O Module				
Input Test				
IN 1 Start	IN 2 Emergency Stop	IN 3 Stop		
IN 4 Zeroing	IN 5 Clear Alarm	IN 6 Clear Total ACUM		
IN 7 Bag Lock/Unlock Request	IN 8 Manual Discharge	IN 9 Manual Fine	Flow	
IN10 Manual Coarse Flow	IN11 Change Recipe	IN12 Empty Mate	erial	
Return			Return	

7.I/O Module						
Output Test	Output Test					
OUT 1 Running	OUT 2 Stopped	OUT 3 Coarse Flow		JT 4 Im Flow		
OUT 5 Fine Flow	OUT 6 Bag Lock	OUT 7 Result Waiting		JT 8 ady		
OUT 9 OUT10 Discharge (-NZ-)		OUT11 Pat Bag		JT12 ILL		
			T16 Under			
Return						

3. 8 auxiliary logic programming

Auxiliary logic programming function, up to 6 sets of auxiliary logic trigger signals can be defined, and the effective time and output port after the auxiliary logic signal is triggered can be set. The simple logic signal output can be configured to control other

auxiliary devices, and 6 sets of auxiliary logic signals. They can also control each other.

Under the auxiliary logic programming interface:

- Click the sub-option button to enter the current parameter item to view and set the attribution parameter information.
- Press [Back] to exit the current interface and return to the previous interface.

Auxiliary logic programming parameter items 1~ 6	parameter	Description		
	Close (default)			
	Delayed on			
	Delayed			
	disconnection			
A logic (1-6)Type	Delay on time	The type of auxiliary logic programming signal is		
	delay	selected based on the logic to be implemented.		
	Invalid - valid			
	edge triggered			
	Valid-invalid			
	edge-triggered			
	Custom	After setting any of the 1~ 12 channels as the trigger		
	trigger input	signal, the input port will be fixed as the trigger		
	(default)	signal.		
	IN port 1~12	Set any of the 1~12 input ports as the trigger		
		signal, then the input can be either the trigger signal		
2. Logical (1-6) a		or the function signal of the input port.		
trigger signal	Switch output definition	After the trigger signal is set to "an internal function signal" the trigger output is performed		
		function signal", the trigger output is performed according to the function signal.		
		After the trigger condition is set , the current weight		
	>= or <=	value is compared with the set weight threshold,		
	weight	and theoutput is triggered when the condition is		
	valuetrigger	met .		
		Initial value: no definition.		
3. Thetrigger	IN1~12	Select the digital input port corresponding to the		
input port	INT 12	function signal. The input port " 0 is not defined"		
		means that the function is not defined.		
	UUT1~16	Initial value: no definition.		
4. The output		Select the digital output port corresponding to the		
signal port		function signal. The output port " 0 is not defined"		
		means that the function is not defined.		
5. Delay on time	Unit s	Initial value: 0.0 ; Range: 0.0~99.9 .		
		After the trigger signal is valid, the logic output		

		signal is valid after the delay.
6. Delayed disconnection time	Unit s	Initial value: 0.0 ; Range: 0.0~99.9 . After the trigger signal is invalid, the logic output signal will be invalid after the delay.
7. Output effective time		Initial value: 0.0 ; Range: 0.0~99.9 . The duration after the logic output signal is valid, and becomes invalid after the end of the time.
8. Logic threshold Unit KG weight		Initial value: 0.0 0 ; Range: 0.0~ 100.00 . Set the weight value, the current weight and the threshold weight comparison, and trigger when theweight value trigger condition is met .(When the trigger select "> =, or <=weight value" valid).

3. 8 .1 delay on

• When the delay is turned on [Custom Input Port Trigger], the operation is as follows:

1. Set parameters and switch quantity: type selection [delay turn-on], trigger signal If [Custom trigger input] is selected, the trigger input port is defined as "1" (you can see that the switch input port 1 is displayed as "auxiliary logic" Trigger input 1"), the logic output port is defined as "1" (you can see that the digital output port 1 is displayed as "auxiliary logic output 1"), and the [delay on time] is set to 2 seconds.

2. Execute operation: make the trigger signal input 1 valid, start the delay delay on time, and continue to be valid until the delay on time 2s ends, the logic output signal port 1 output is valid until the trigger signal input 1 is invalid, the logic output Signal port 1 also becomes invalid. See the timing diagram below:

• When the delay is turned on [fixed input port trigger], the operation is as follows:

1. Set parameters and switch quantity: trigger signal to select "input port 1" (you can see that the digital input port 1 is displayed as "the original unchanged definition", assuming the original definition is start, the function of input port 1 can be "start" "It can also be "signal trigger"), the logic output port is defined as 1 (the switch output port 1 can be seen as "auxiliary logic output 1"), and the [delay on time] is set to 2 seconds.

2. Execution operation: make the trigger signal input 1 valid (starting is also valid, the instrument running output is valid), start the delay-on time, and remain valid until the delay-on time is2s, the logic output signal port 1 output is valid. Until the trigger signal input 1 is invalid, the logic output signal port 1 also becomes invalid. The meter will continue to run until an emergency stop signal is given.

• When the delay is turned on [switch output definition trigger], the operation is as follows:

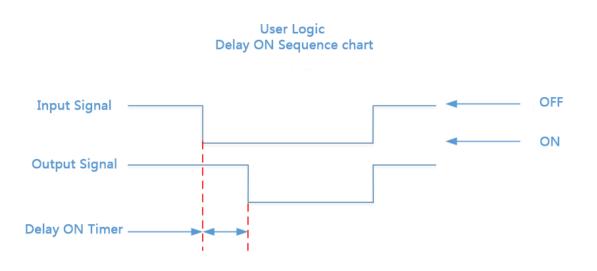
1. Set parameters and switch quantity: trigger signal select "Run" (switch output can define or not define running signal), logic output port is defined as 1 (can see that switch output port 1 isdisplayed as auxiliary logic output 1), [Delayed On Time] is set for 2 seconds.

2. Execution operation: After the external input "start", when the "run" output signal is valid, it starts to go [delayed on time], and remains valid until the end of the delay on time 2s, the output of the logic output signal port 1 is valid. The logic output signal port 1 becomes invalid until the "Emergency stop or pause" is valid and the "Run" output signal is invalid.

• When the delay is turned on [> = or < = weight value trigger], the operation is as follows:

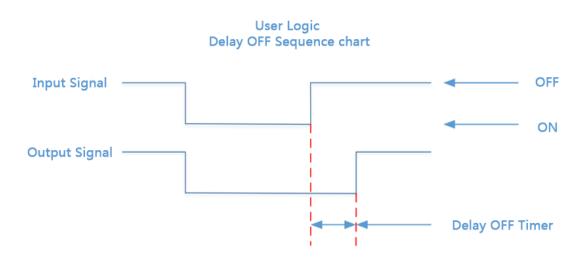
1. Set the corresponding threshold weight, the logic output port is defined as 1 (you can see that the switch output port 1 is displayed as the auxiliary logic output 1), and the [delayed on time] is set to 2 seconds.

2. Execution operation: current weight value > = or < = logic 1 threshold weight is valid when setting value, start to go [delay on time], it is valid until the end of delay on time 2s, logic output signal port 1 The output is valid until the current weight < or > logic 1 threshold weight setting value is invalid for logic output signal port 1.



3.8.2 delay off

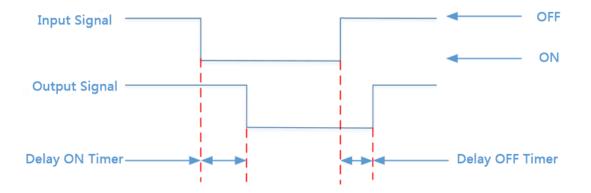
Related parameters: Type selection [delay disconnect], select [trigger signal], set [trigger input port], [logic output port definition], [delay disconnect time]. Operation Reference "3.8 .1-Delay." Its output function is shown below:



3.8.3 delay on and delay off

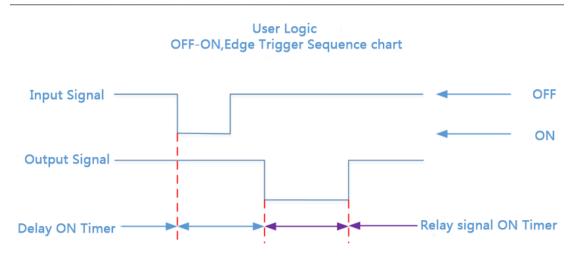
Related parameters: Type selection [delay on and delay off], select [trigger signal], set [trigger input port], [logic output port definition], [delay on time], [delayed off time]. Operation Reference "3.8 .1-Delay." Its output function is shown below:

User Logic Delay ON & Delay OFF Sequence chart



3.8.4 invalid - valid edge triggered

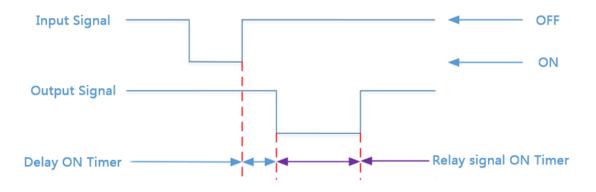
Related parameters: Type selection [invalid - valid edge trigger], select [trigger signal], set [trigger input port], [logic output port definition], [delay on time]. Operation Reference "3.8 .1-Delay." Its output function is shown below:



3.8.5 valid - invalid edge trigger

Related parameters: Type selection [valid - invalid edge trigger], select [trigger signal], set [trigger input port], [logic output port definition], [delay on time]. Operation Reference "3.8 .1-Delay." Its output function is shown below:

User Logic ON-OFF,Edge Trigger Sequence chart



3.9 User Management

Administrators and system administrators can use the "User Management" item to perform user switching , user editing, and setting up automatic login users.

Under the user management interface

- Click the sub-option button to enter the current parameter item to view and set the attribution parameter information.
- Press [Back] to exit the current interface and return to the previous interface.
- After the meter is powered on, the default is to log in with "operator" privileges.
- Click the user to log in. The operator and administrator login initial password is **000000 (six zeros).**
- Under [User Management], you can manage user passwords and implement hierarchical management of permissions.

In order to prevent the malfunction of the instrument caused by the malfunction of the instrument, the **GM9907** packaging controller provides **three** levels of authority (operator, administrator and system administrator) to choose: where the **system administrator can perform all operations on the meter** (not open to the user). Operator and administrator permissions are as follows:

User level	Permission
operator	Quantitative values of the parameters can be set, can be calibrated, can be modified, the test switch, and is not limited in cumulative batch menu. Other parameters can be viewed but not to modify.
administrator	viewed, but not to modify. You can not perform all the functions of "Reset / Backup" page.
Systemadministrator	All operations are not restricted .

User Management	Information child	Description
user list	user list	 Show logged in users. 0 ~ 7 for the operator, 8 for the administrator, 9 is the system administrator (highest authority).
User editing	1. Login user	The currently logged in user is displayed. This item is not allowed to be modified.

	2. ID	Write the user ID to be edited .
	2. Permissions	Both administrator/operator options are available .
	3. Password switch	"On/Off" is optional. When set to off, the current login user does not need to enter a password when logging in.
	4. Password	Set/modify the login password. When setting the password, you need to enter the original password correctly. For the new password, you need to enter the same password twice, and fix 6 digits.
automatic log-in	automatic log-in	Set the automatic login user 0 ~ 8 or the last login user. (Note: When logging in as the system administrator last time, the default login is operator 0).

3.10 System Information

Administrators and system administrators can view meter version, password management, data recovery and backup, and shortcut key definitions through the System Information item.

Under the system information interface

- Click the sub-option button to enter the current parameter item to view and set the attribution parameter information.
- Press [Back] to exit the current interface and return to the previous interface.

System information item	Information child	Description					
Version Information	Version Information	View the compilation date andtime of the front and back , the corresponding versioninformation , S/N code, P/N code and current date and time (you can modify the current date andtime on this interface).					
	1. Recipe parameter password	"On/Off" is optional. When set to off, the user does not					
	2. System and communicationpassword	need to enter a password to enter the corresponding parameters. Set to On to modify the password value of the selected parameter item. The user needs to enter the password to enter the corresponding parameter.					
Password management	3. Peripheral parameter password						
	4. Motor parameter password	Note: The national standard requires that the calibration scale parameters of the metered product must be					
	5. School scale password						
	6. Accumulation clear	protected by a password, so the calibration scale password					

	password	switch is fixed to "on". Initial password:000000					
	7. Switch password						
	8 auxiliary logic password						
	parameter						
	9. System information						
	password						
	1. Reset all	Click this to restore all the parameter values of the					
	parameters(including calibration scale)	instrument to the factory settings. (except system information)					
		Click the recovery in addition to the school scale					
	2. All parameters are reset (not	parameterother parameters to the factory defaults. (except					
	including school scale)	system information)					
	3. Resetformulation	Click this to restore the recipe parameter value to the					
	parameters	factory setting.					
	4. Communication	Click this to restore thesystem and					
	system resetparameters	communicationparameter values to the factory settings.					
	5. PeripheralReset parameter	Click this to restore the peripheral parameter values to the					
		factory settings.					
D	6. Reset motor parameters	Click this to restore the motor parameter value to the factory setting.					
Recovery/backup	7. Reset the school	Click this to restore the calibration scale parameter value to					
	scaleparameter	the factory setting value.					
	0 Decet au italia a rana atau	Click this to restore the switch definition parameter value					
	8 Reset switchparameters	to the factory setting value.					
	9. auxiliary resetlogic	Click this to restore theauxiliary logic parameter value to					
	parameters	the factory setting value.					
	10 Reset defined shortcuts	Click this to restore the shortcut key to the factory setting					
		value.					
	11. backupexecutionparameter	Click on the meter to back up the current parameter settings.					
		Click the meter to restore the parameter value to the most					
	12. Perform arecovery backup	recent backup value.					
	13. Delete backup	Click the meter to delete the backed up parameters.					
	1. All parameters	Export all parameters from USB .					
	2. formulation parameters	Export recipe parameters from USB .					
USB data export	3. System and						
	communicationparameters	Export system and communicationparameters from USB .					
	4. Peripheral parameters	Export peripheral parametersfrom USB .					
	5. The motor parameters	Export motor parameters from USB.					
	6. The school scale data	Export calibration scaleparameters from USB .					

	7. Cumulative data	Cumulative export pa	arametersfrom US B.					
	8. binary parameters	Export the switch parametersfrom USB.						
	9. Auxiliary logicparameters	Export auxiliary logicparameters from USB.						
	10. Shortcut Keys	Export shortcut key p	parametersfrom USB .					
	1. All parameters	Import all parameter	s from USB .					
	2. formulation parameters	Import recipe param	eters from USB .					
	3. System and communicationparameters	Import system and co	ommunicationparameters from USB .					
	4. Peripheral parameters	Import peripheral pa	rametersfrom USB .					
USB data export	5. The motor parameters	Import motor param	eters from USB .					
	6. The school scale data	Import calibration sc	aleparameters from USB.					
	7. binary parameters	Import cumulative pa	arametersfrom USB .					
	8 auxiliary logicparameters	Import the switch pa	rametersfrom USB .					
	9. shortcutsparameters	Import auxiliary logic	cparameters from USB .					
	1. Shortcuts - 1	Initial value:quantitative value						
	2. Shortcuts - 2	Initial value: time parameter	Click to select the button					
	3. Shortcuts - 3	Initial value:weighing parameter	function. Use the [Previous] key and the [Next] key to select the page to be searched (9 pages intotal)					
	4. Shortcuts - 4	Initial value: weight calibration scale	Note : For the defined shortcut keys, in the shortcut key view interface, click the corresponding button to					
Shortcut definition	5. Shortcuts - 5	Initial value: motor parameters	enter the corresponding parameters, such as: theshortcut key 1 initially defaults to "quantitative value", in					
	6. Shortcuts - 6	Initial value: feeding parameters	the shortcut key view interface, press the shortcut key 1to enter "quantitativevalue" screen.If the shortcut key 1 is defined as					
	7. Shortcuts - 7	Initial value: digital input test	"start", click Start to start the meter.					
	8. Shortcuts - 8	Initial value: switch output test						
other settings	1. Language mode	 Switch between Chinese and English. Initial value Simplified Chinese; Simplified Chinese; 1 :English. 						

2. Screen brightness	Screen brightness selection.Initial value: 100% ; Optional: 0:10% ; 1:30% ; 2:50% ; 3:70% ; 4:80% ; 5: 100% .						
3. Screen saver time	 Screen saver time setting.Initial value: 5 points; Optional: 0 : always on; 1 : 1point; 2 : 2 points; 3 : 3 points; 4 : 5 points; 5 : 10points. 						
4. Screen saver selection	The screen is displayed when the screen saver is displayed. Initial value: display time; Optional: 0 : None; 1 : Display weight; 2 : Display time.						

4. Function

4.1 Setting the working mode

The GM9907-L2 has five scale body structures. Choose between the system and the communication - scale structure.

They are : hopper scale, hopper less scale, PLC mode, big mouth scales, valve scales.

(Note: Among them, the working mode of the bucket scale and the bucketless scale supports the dual scale interlock mode. Other scales do not support the dual scale interlock mode)

4.2 batches

The batch number is used for reminder of the number of packages. When the set number of batches is completed during the automatic running process, the meter issues the batch number to the alarm and stops, waiting for the user to process, the batch number and the alarm output are valid. At this time, press the clear alarm button or make The "clear alarm" input signal is valid and the meter will clear the above alarm. If the batch number is set to **0**, the batch number judgment is not performed.

The batch number ranges from **O to 50000**. The initial default value is **O** (no batch count judgment).

4. 3 level control

Due to the different application conditions, the filling device of the storage scale storage bin is divided into **two** types: double material level (upper and lower material level), single material level (lower material level) and no level positioner.

4.3.1 double digit

The upper and lower material levels are defined, corresponding to the double material level. At this time, the instrument has a feeding control function, and the control principle is: when the upper and lower material level inputs are invalid, the instrument feeding output is valid; when the feeding level input is valid, the feeding output is invalid. At the same time, before each feeding (fast, medium, slow), the meter will check whether the lower level is valid. If it is invalid, wait for this signal; only when this signal is valid, the feeding process starts. During the feeding process, the meter does not detect whether the material level signal is valid.

Single Level 4.3.2

The blanking level is defined, and the loading level is not defined, corresponding to the single material level. At this point the meter will not perform feed control. Only the feed level is detected before feeding. If the material level is invalid, wait for this signal; only when this signal is valid, the feeding process starts. During the feeding process, the meter does not detect whether the material level signal is valid.

The upper and lower material levels are not defined, corresponding to the situation without the positioner. At this time, the meter does not perform the feeding control, and the raw material level is not detected before the feeding.

4.4 quick setup

In the stopped state, the quickly modified recipe data is saved in real time.

The data modified during operation, the zero zone value is saved in real time, and other recipe parameters are automatically updated when the next scale is started after exiting the quick setting interface (the combination mode is to be released after the loose bag is started and the next scale target value is updated).

The recipe parameters are modified during operation, but when the next scale is updated, the emergency stop signal is entered and the meter is stopped and the recipe is updated immediately.

Modbus can also be carried out at runtime when communicating recipe quantitative value changes, but can not modify the recipe number.

4.5 Adaptive function

The adaptive function is a convenient function to adjust the feeding speed when the user first uses the meter. When this function is turned on, it will automatically adjust the parameters such as the fast increase advance amount, the medium increase advance amount, the slow increase advance amount, the fast add ban time, the medium plus ban time, and the slow add time. The feeding process is optimized. note:

1. All advances must be zero in order to be used normally.

2. If the drop correction and the adaptive function are turned on at the same time, the drop correction function is forcibly turned off.

3. When the first scale is adaptively started, the scale body must be stable and the current weight is zero.

4.6 ∪ disk upgrade software

Proceed as follows:

1.	Insert the USB flash drive into the computer and create a new										
	" GM9907-L2 " folder in the USB flash drive ;										
2.	Save the "GM9907-L-Upload.gm" upgrade file to the "GM9907-L2"										
	folder;										
3.	In the main instrument display screen and stopped the ${\sf U}$ disk plug in the										
	instrument's USB port, it will automatically pop-up "system prompt"										
	dialog box:										
	"O Update [firmware]										
	O Update [boot screen]										
	confirm cancellation";										
4.	Click the update [Firmware] as prompted , then O becomes $ullet$, click "OK"										
	to start the firmware update process, wait for the progress bar to finish,										
	the upgrade is successful, the instrument automatically restarts. It is										

not allowed to power off or unplug the USB flash driveduring the upgrade process. If the upgrade process is interrupted or the U disk is removed, after the power is turned back on, the software version before the upgrade will be retained, and the U disk update will be inserted again. After the progress bar is finished, the upgrade is successful and the instrument automatically restarts.

4 . 7 \cup disk upgrade boot interface

Proceed as follows:

1.	Insert the USB flash drive into the computer and create a new										
	"GM9907-L2" folder in the USB flash drive ;										
2.	Save the image of "GM9907-L - Logo .bmp" (resolution 1024*600) into the										
	" GM9907-L2 " folder;										
3.	In the main instrument display screen and stopped the ${\bf U}$ disk plug in the										
	instrument's USB port, it will automatically pop-up "system prompt"										
	dialog box:										
	"O Update [firmware]										
	O Update [boot screen]										
	confirm cancellation";										
4.	According to remind click										
	Update [boot interface], it becomes $\bigcirc igodot$, pictures start the update										
	process, after the upgrade, the instrument automatically restart after										
	clicking "OK." It is not allowed to power off or unplug the USB flash										
	drive during the upgrade process . If the upgrade process is interrupted										
	or the ${\sf U}$ disk is removed, after the power is turned back on, the picture										

before the upgrade will be retained, and the U disk update will be inserted again. After the upgrade is successful, the instrument automatically restarts.

5. Serial communication

GM9907 provides two serial communication interface, and serial port 1 and 2 can be selected in a continuous manner, **Modbus** mode and printed three kinds of functions. The first serial port of the meter is **RS - 23 2** and the second serial port of the meter is **RS - 485**.

5.1 printing method

When the serial port serial port **1** or serial port **2** is selected as the **printing** mode, the corresponding serial port can realize the printing of the related accumulated content by connecting the serial printer.

The communication parameters related to the printing method refer to the serial port parameter items, among which are noted:

- 1) Baud Rate This parameter should be selected in accordance with the printer settings used for the connection.
- 2) Communication Format This parameter should be selected in accordance with the printer settings used for the connection.

Note: When the print language is selected as Chinese, the data bit cannot be used in 7 -bit format, otherwise there will be an error in printing.

3) Print Format - The peripheral format allows you to set the print format to 24 columns or 32 columns. In addition, the print language of the peripheral parameters is set to Chinese or English.

5.1.1 Automatic printing

In the **print** mode, the automatic print switch for peripheral parameters is set to **On**. Then, each time the weighing of the meter is completed, the weighing result will be printed automatically. The format is as follows:

The Chinese 24 column print format is	The Chinese 32 column print format is						
as follows:	as follows:						
Packing schedule	Packing schedule Unit: kg Recipe number: 20						
Unit:kg							
Recipe number:20	Total cumulative count target value result						
Total cumulative results							
1 5.50	3 5.60 5.50						
2 5.50	4 6.00 5.80						

5 .1.2 total cumulative printing

The Chinese 24 column print format is	The Chinese 32 column print format is						
as follows:	as follows:						
Total cumulative report	Total cumulative report						
Time: 2018/6/19 13:28	Time: 2018/6/19 13:36						
Unit: kg	Unit: kg						
Number of times: 18 Weight: 84.16	Number of times: 24 Weight: 129.40						

In the printing mode, stop the state, enter the "Accumulate and Batch" interface, and click "Print Total

Accumulation". The format is as follows:

5.1.3 formula cumulative printing

In the printing mode, stop the state and enter the "Accumulate and Batch" interface. Select "Recipe Accumulation" and click "Print Selected Receipts".

Click the "Print all the recipes rolled-up" to print all the recipes (1 to 20) accumulated, the instrument

will automatically skip the cumulative recipe **O** does not print. The format is as follows:

The Chinese 24 column print format is	The Chinese 32 column print format is					
as follows:	as follows:					
All formula accumulation report	All formula accumulation report					
Time: 2018/6/19 13:29	Time: 2018/6/19 13:36					
Unit: kg	Unit: kg					
Recipe number: 20	Recipe number: 20					
Number of times: 18	Number of times: 24					
Weight: 84.16	Weight: 129.40					

5 .1.4 user cumulative printing

In the printing mode, stop the state and enter the "Accumulate and Batch" interface. Switch to the user cumulative interface and press "Print Selected User Accumulation".

Click "Print All Users Accumulate" to print the total of all users (0~9). The meter will automatically

skip users whose user accumulation is **O** and will not print. The format is as follows:

The Chinese 24 column print format is	The Chinese 32 column print format is
as follows:	as follows:
Cumulative report for all users	Cumulative report for all users
Time : 2018/6/19 13:29	Time: 2018/6/19 13:37 Unit: kg
Unit:kg	User Number: 9
	Number of times: 22
User Number:9	Weight: 117.50
Number of times:16	
Weight: 72.26	

5.2 continuous mode data frame format

		STX	Scale	R	т	SP	SP	Cumulative	,	Cumulative	CRC	CR	LF
			number					number		weight			
	among them:												
	_												
	R	-	-— 52H										
	_												
	т	_	-— 54H										
	6 D	20.1											
	SP ——	20 H											
	Cumulativa nun	nh o m	0 dia	:+-		0000		~~~~~					
	Cumulative num	lber	- 9 alg	ιιs	, U	00000	0000	99999999999					
	Cumulative wei	o h t	– 10 di	or i t	ç	inc	1 11 d	ing decimal	n	oint			
	oumulative wes	L S II U	IV ui;	510	5,	Inc	I u u .	ing uccimai	. р				
	For example, t	the m	leter se	end	s t	he	foll	owing data	(]	in hexadeci	imal	form	n):
	02 30 31 52 54 20 20 2	20 20 2	0 20 20 20 3	31 3 0) 30	2C 20	20 20) 20 30 2E 35 30 3	80 30	32 39 0D 0A			
Т	t means: 1# sca	10	the cu	rra	nt	tot	a1 c	umulativo	n 11	mbor is 10	∩tim	05	t h a
1	t means. In see	110,	the cu	110	5 II U	.0.	art		nu.		U tim	<i>cs</i> ,	ιnt
	ight is 0 5000												

weight is **0.5000** .

5 .3 Modbus-RTU protocol

The communication mode selected on serial port ${\bf 1} \mbox{ or serial port } {\bf 2} \mbox{ is Modbus. -RTU} \mbox{ mode}$.

Note: This address is not available if MD-R (compatible with O1. version) communication mode is selected.

5 3.1 abnormal function code and code

•	Function	code	supported	by	the	instrument:
---	----------	-----------------------	-----------	----	-----	-------------

function	name	Description
code		
03	Read register	Read up to 125 registers in a single pass .
06	Write a single	Use this function code to write a single holding
	register	register.
		This instrument only supports writing double
10	Write multiple	registers. It must be aligned when writing. It is
10	registers	not allowed to write only a part of dual registers.
		Read-only part is allowed when reading.
01	Reading coil	Note that this length is in bits .

|--|

Note: This instrument only supports the above MODBUS function code. When the instrument performs other function

codes, the meter will not respond.

♦ MODBUS exception code response

Code	name	meaning
02	Illegal data address	For the instrument, the error code indicates that the data address received is an address that is not allowed.
03	Illegal data value	The portion of data written and the allowed range.
04	Slave failure	An unrecoverable error occurs when the meter is attempting to perform the requested operation.
07	Unsuccessful programming request	For the meter, the received command cannot be executed under the current conditions.

5. 3.2 MODBUS transmission mode

The $\boldsymbol{\mathsf{MODBUS}}$ transmission mode is the $\boldsymbol{\mathsf{RTU}}$ mode.

When communication with the **RTU** mode, information of each **8-bit** byte is divided into **two 4-bit** transmission character **hexadecimal**.

Data format: 8 -bit data bit, 1 stop bit, even parity (8-E-1)

8 -bit data bit, 1 stop bit, no parity (8-N-1)

Baud rate: 9600/19200/38400/57600/115200 (optional)

Code: RTU

Example :

Read command:

Command	Slave	function	Data	Number of	CRC check
function	number	code	address	data read	CRC check

(single /double)					C	ode
byte						
Read weight (double)	01	03	0002	0002	65	СВ
Target value (double)	01	03	01F6	0002	25	C5
Zero voltage (double)	01	03	0069	0002	14	17
Gain voltage (double)	01	03	006B	0002	B5	D7

Write command:

(Note: Write weight data with 50 as an example. When it is displayed as two decimal places, it should be

written to 5000)

Command function (single /double) byte	Slave number	function code	Data address	Write register number	Write bytes	data input		check de
Write target value(double)	01	10	01F6	0002	04	0000 1388	7C	07
Zero calibration (double)	01	10	0069	0002	04	0000 0001	F4	2D
Gain calibration (double)	01	10	006B	0002	04	0000 1388	B9	62

5. 3.3 MODBUS address allocation

Protocol address	PLC address	meaning	Description		
000 0	4 0001		The meter displays the gross weight value, signed integer		
0001	4 000 2	Gross weight			
0002	4 000 3		The sector dise		
0003	4 000 4	net weight	The meter displ	ays the net weight value, signed integer	
0004	4 000 5	— Tare	Tare value		
0005	4 000 6		Tare value		
			Bit	Description	
			. 0	Unstable weight : 0 ; stable : 1	
000 6			.1	Non-zero : 0 ; zero : 1	
	4 000 7		. 2	Currently showing the weight of the symbol +/- Positive sign : 0 ; minus sign : 1	
		Control status (bit)	. 3	overflow	
			. 4	Weight overflow	
			. 5	Negative weight overflow	
			. 6	Sensor is overflowing	
000 7	4 000 8		. 7	Sensor negative overflow	
			. 8	Millivolts stable:1 unstable: 0	
			. 9~ . 31	Reserved	
			. 0	0 : stop; 1 : run	
			.1	Before feeding	
			. 2	Quick add	
			. 3	China and Canada	
			. 4	Slow plus	
000 8	4 000 9		. 5	Value	
000 8	4 000 9		. 6	Weigh	
			. 7	Unloading	
		Operating status	. 8	Zero zone	
			. 9	Very bad	
			. 10	Poor	
			. 11	qualified	
			. 12	Super short break	
			. 13	Clip pocket	
000 9	40010		. 14	Bag signal (valve)	
			. 15	Push bag signal (valve)	
			. 16	Hanging bag (ton pack)	

			. 17	Blowing (ton pack)
			. 18	Return air valve (ton pack)
			. 19	Metering bracket up(ton pack)
			20	Measuring bracket down (electric) (ton
			. 20	pack)
			. 21	Upper limit (PLC mode)
			. 22	Lower limit (PLC mode)
			. 23	Batch completion
			. 24	Call the police
			. 25	Gross weight status: 1: Net weight, :0:
			. 25	Gross weight
			. 0	Double scale interlock output (interlock
				mode)
			.1	Feed level
			. 2	Cutting level
			. 3	supply
	40011		. 4	Missing material
00 10			. 5	Cutting
0010			.6	Shooting bag
			.7	add mosaic
			. 8	Unloading rapping
			. 9	Conveyor output
			. 10	Sewing machine output
			. 11	Tangential machine output
		Control state 2	. 12	Auxiliary pulse 1
			. 13	Auxiliary pulse 2
			. 14	Auxiliary pulse 3
			. 15	Auxiliary pulse 4
			. 16	Auxiliary logic output 1
			. 17	Auxiliary logic output 2
00 11			. 18	Auxiliary logic output 3
	40012		. 19	Auxiliary logic output 4
			. 20	Auxiliary logic output 5
			. 21	Auxiliary logic output 6
			. 22	Belt A (ton pack)(retained)
			. 23	Belt B (ton pack)(retained)
			. 24	Manual slow addition
			. 25	Manual unloading
00 12 ~0 013	4 0 0 13 ~ 4 00 14	Reserved		
00 14	40015	Automatic clear	.0	Target value is 0, unable to start

		alarm	.1	Weight overflow atstartup
			. 2	Clear over range
			.3	Clearing instability
			. 4	Super low alarm
			. 5	Disconnecting the discharge limit alarm
			. 6	Reserved
			.7	Cleared during operation
			. 8	Automatic clearing overrange
			. 9	Automatic zeroing instability
			. 10	Feeding door is not closed in place alarm
			. 11	The discharge door is not closed in place.
			. 12	Ordinary motor feeding, slow plus opening time setting cannot be 0
0 0 15	40016		. 13	Ordinary motor feeding, the opening time of the medium plus can not be less than the slow opening time
			. 14	Ordinary motor feeding, fast opening time can not be less than the time of opening the door
			. 15	Ordinary motor feeding, fast opening time can not be less than slow opening time
			. 16	Running stability timeout
00 16 ~0 019	4 00 17 ~ 4 00 20	Reserved	-	
			. 0	Batch completion
			.1	Super short break
			. 2	Motor feed door closes timeout
	4 00 21		. 3	Pocket timeout
0020			. 4	Loose bag timeout
			. 5	Discharge closing timeout
			. 6	Unloading timeout
		Manually clear the	.7	Reserved
0021		alarm	. 8	Reserved
			. 9	Motherboard add-on board communication failed
			. 10	Fast feed timeout
	40022		. 11	Medium feed timeout
-			. 12	Slow feed timeout
			. 13	Unloading timeout
			. 14	Unloading rapping timeout

			4. The second			
			1 : The maximum range is too small			
	4 0 0 27		2 : The maximum range is too large			
			3 : Zero voltage is too hig			
			4 : Zero voltage is too lov			
0026		Calibratian alarma	5 : Zero voltage instabilit			
		Calibration alarm	6 : The gain voltage is too			
			7 : The gain voltage is too			
			8 : Gain voltage instabilit	γ		
			9 : Weight input error			
			10: The resolution is	too small after calibration (not enough		
0027	4 00 28		accuracy)			
0028	40029					
0029	40030	Alarm 3	Reserved			
0030	40031	Total cumulative				
0031	40032	weight is 6 digits				
0032	40033	The total cumulative				
0033	40034	weight low 9				
0034	40035	Total accumulated				
0035	4 00 36	number of packets				
0036	40030	Current formula				
0030	40037	cumulative weight				
0037	4 0 0 38	is 6 digits high				
0038	40039	The current recipe				
		cumulative weight				
0039	4 0 0 40	low 9				
0040	4 00 41	Current formula	(real time parameters)			
0041	40043	cumulative number	Read only			
0041	4 0 0 42	of packages				
0042	4 0 0 43	User cumulative				
0043	4 0 0 44	weight is 6 digits				
0044	4 0 0 45	User cumulative				
0045	40046	weight				
		is 9 digits lower	•			
004 6	4 00 47	User cumulative				
0047	4 00 48	number of packets				
0048	4 0 0 49	Batch remaining				
0049	4 0 0 50	Fast time	4			
0050	40051	China-Canada time				
0051	4 00 52	Slow time				

0052	40053	Setting time			
0053	4 00 54	Discharge time			
0054	4 000 55	Previous package time			
0055	4 00 56	Previous bag weight			
0056	40057				
0057	40058	 Packing speed 	Package / hour		
0058	40059	Facking speed			
0059	4 0 0 60	Flow rate	(unit) / hour		
0060	40061	Tiow face			
0061 ~0099	4 0 0 62 ~ 40100	Reserved			
	writable register				
Calibration pa	rameters (reserved 1	.00~200)			
0 100	4 0101	unit	Initial value: 1; 0 - a = 1 - ka = 2 - a + 2 + ka + ka		
0 100	4 0101		0 - g, 1 - kg, 2 - t, 3: lb (lbs)		
		Decimal point	Initial value : 2 ; Optional: 0 — 0 digits; 1 — 1digit; 2 — 2 digits;		
0 101	4 0102		3 – 3 digits; 4 – 4 digits .		
			Initial value: 1;		
0 102	4 0103	Graduation value	Optional: (1/ 2/ 5/ 10/ 20/ 50) .		
0103	4 0104		Initial value: 10000 ;		
		Maximum range	Write range (maximum range value minimum scale \leqslant		
0 104	4 0105		imes 10 0000, andnot more than 999,999)		
0 105	4 0106	Zene estimation	When writing 1 to the current weight as zero, the weighing is		
0106	4 0107	- Zero calibration	allowed to be written when the weighing platform is stable; the current zero millivolt is returned when reading.		
0107	4 0108	Weight gain	Enter the standard weight weight ($\leqslant~$ maximum range) ;		
0108	4 0109	calibration	Read as the current sensorrelative zero millivolts		
0109	4 0110	Weightless Gain Calibration	Write the millivolts corresponding to the gain weight, the meter is temporarily stored; when reading, it returns the absolute millivolts corresponding to the current weight (if the current		
		(Millivolts)	millivolts corresponding to the current weight (if the curr millivolt is too small or too large, it cannot be calibrated a returns 0XFFFF .).		

4 0112	No code gain calibration (weight)	Write and gain the weight value corresponding to millivolts. Before writing this value, you must first write the gain millivolts.
4 0113		When writing this register, use both to perform gain calibration. Returns 0000H when read .
4 0114	Sensor sensitivity	3mV/V (Note 2).
4 0115	Instrument sensor	The multimeter measures the voltage
4 0116	voltage	between EX + and EX (Note 2) .
4 0117	Sensor maximum	Initial value: 10000 ; (Note 2).
4 0118	range	Write range (maximum range value minimum scale \leq $ imes$ 10 0000, and not more than 999,999)
4 0119~ 40200	Reserved	
nmunication parame	eters - weight paramete	rs (reserved 200~500)
4 0201	Stable range	Initial value : 2 ; Stable range (0 ~ 9 9 d optional) Unit: d
4 0202	Judgment time	Initial value: 0.3 ; range: 0.1~9.9 . (unit s)
	-	Initial value: 50 ; Range : 1 -99 units: %
	-	Initial value: 0 ; Range : 0 -9Unit: d
4 0205		Initial value: 2.0 ; range: 0.1~99.9 . (unit s)
4 0206		Initial value: 2 ; Optional: 0: 120 times / sec; 1 :24 0 times / sec; 2 : 480 times / sec; 3: 9600 times / sec .
4 0207~ 40250	Reserved	
nmunication parame	eters - filter parameters	
4 0251	Stop filter level	Initial value: 7 ; Range: 0 to 9
4 0252	Secondary filter switch	Initial value: 0 ; 1 : On 0 : Off
4 0253	Dynamic filter switch	Initial value: 0 ; 1 : On ; 0 : Off
4 0254	Feed filter level	Initial value: 2 ; Range: 0 to 9
4 0255	Fixed filter level	Initial value: 7 ; Range: 0 to 9
4 0256	Unloading filter level	Initial value: 1 ; Range: 0 to 9
	Reserved	
4 0257 ~ 40300	Reserved	
	eters - function parame	ters
	4 0113 4 0114 4 0115 4 0115 4 0116 4 0116 4 0117 4 0118 4 0119~ 40200 1 0119~ 40200 1 0119~ 40200 1 0201 4 0201 4 0201 4 0202 4 0203 4 0203 4 0204 4 0205 4 0205 4 0205 4 0205 4 0205 4 0205 4 0251 4 0251 4 0253 4 0253 4 0253 4 0254 4 0255	Nocodegain calibration (weight)40113Sensor sensitivity40114Sensor sensitivity40115Instrument sensor voltage40116Sensor maximum range40117Sensor maximum range40119~ 40200Reserved40119~ 40200Reserved40119~ 40200Reserved40201Stable range40202Judgment time40203Clear range40204Zero tracking range40205Zero tracking range40206A/D conversion rate40207~ 40250Reserved40207~ 40250Reserved40207~ 40250Reserved40251Stop filter level40252Secondary filter switch40253Dynamic filter switch40254Feed filter level40255Fixed filter level

		alaar	
		clear	
0.004	0 301 40302	Automatic clear	Initial value: 0 ;
0 301		interval	Range : 0-99 has the bucket tocomplete the packing and then clear
			the current weight.
0 302	40303	Running stability	
		timeout	The initial value is 0 ; therange is 0 to 9 9.9 . (unit s)
0 303	40304	Setting method	Initial value: 0 ; (range: 0 , 1)
0.004	40205		0 : judgment stable value ; 1 :delay setting
0 304	40305	Manual unloading	Initial value: 0 ; 1 : On ; 0 : Off
0 305	40306	Fixed weight	
0.200	40207	retention	Initial value: 0 ; 1 : On ; 0 : Off
0 306	40307	Adaptive level	Initial value: 3 ; Range: 1 ~ 5
0 307	40308	Adaptive switch	Initial value: 0 ; Range: 0 ~ 2
0308 ~ 0349	40309 ~ 4 0350	Reserved	
System and co	ommunication param	eters - structural param	
			Initial value: 0 ;
0 350	40351	Scale body structure	0 : There are bucket scales; 1 :No bucket scale; 2 : PLC mode; 3 : ton
			pack scale; 4 : Valve scale.
0 351	40352	Operating mode	Initial value : 0 ;
			0: single scale; 1: Interlock A;2: interlock B.
0 352	40353	Packaging mode	Initial value: 1;
			0: Gross weight packaging; 1:Net weight package.
0 353	40354	Bracket movement	Initial value: 0 ; 0 : pneumatic; 1 : electric.
			Initial value: 1;
0 354	40355	Feeding method	0 : separate feeding ; 1 :combined feeding .
			Initial value: 0 ;
		Double scale loose	0 : no loose bag at the same time ;
0 355	40356	bag mode	1 : At the same time loose bag 1;
			2 : At the same time loose bag 2 .
0 356~ 0499	4035 7~ 40500	Reserved	-
Recipe parame	eters - quantitative v	alue parameters (reserv	/ed 500~100 0)
0 500	40501		
0 501	40502	Recipe number	Initial value 1 ; range: 1 to 20
0 502	40503		
0 503	40504	Target value	
0 504	40505		
0 505	40506	Faster advance	Weight value writing range : ≤ maximum range
0 506	40507	Medium and early	
0 507	40508	advance	
0 508	40509	Drop difference	
		orop difference	

0 509	40510		
0 510	40511		
0 511	40512	Zero zone value	
0 512~ 0549	40513 ~ 40550	Reserved	
	<u>.</u> eter - time paramete	r	
0 550	40551	Delay before feeding	Initial value: 0. 5 ; range: 0 to99.9 . (unit s)
0 551	40552	Quickly add time	. Initial value: 09; range: 0 to99.9. (unit s)
		Sino-Canada banned	
0 552	40553	time	Initial value: 0. 9 ; range: 0 to99.9 . (unit s)
0 553	40554	Slowly add time	Initial value: 0. 9 ; range: 0 to99.9 . (unit s)
		Fixed value	
0 554	40555	retention time	Initial value: 0. 5 ; range: 0 to99.9 . (unit s)
0 555	40556	Delay after pocket	Initial value: 0. 5 ; range: 0 to99.9 . (unit s)
		Time before loose	
0 556	4 0557	bag	Initial value: 0. 5 ; range: 0 to99.9 . (unit s)
0 557	40558	Unloading delay	Initial value: 0. 5 ; range: 0 to99.9 . (unit s)
0 558~ 0599	40559~40600	Reserved	
Recipe parame	eters - super low erro	or detection parameters	
	40601	Super low detection	
0 600	40001	switch	Initial value: 0 ; 1 : On ; 0 : Off
	40602	Super low pause	
0 601		switch	Initial value: 0 ; 1 : On ; 0 : Off
	40603	Super low alarm	
0 602		time	. Initial value: 10; range: 0 ~999. (unit s)
0 603	40604	Tolerance value	
0 604	40605		Weight value writing range : ≤ maximum range
0 605	40606	Due to thedifference	
0 606	40607		
0 607	40608	Underfeed switch	Initial value: 0 ; 1 : On ; 0 : Off.
		Undershoot	
	40609	maximum	
0 608		replenishment times	First: 1; range: 1 ~ 99.
0.000	40610	Feeding effective	
0 609		time	Initial value: 0.5 ; range: 0 to 99 .9 . (unit s)
0 610	406011	Invalid feeding time	Initial value: 0.5 ; range: 0 to 99 .9 . (unit s)
Recipe paramo	eters - drop correctio		
0.611	406012	Drop correction	Initial value: 0 ; 1 : On ; 0 : Off .
0 611	400012	switch	Initial values 4 - Decement 4000
0 612	406013	Drop correction	Initial value: 1 ; Range: 1~99 .
0.612	406014	Drop correction	Range: 2.0 ; Range: 0 to 9.9 (unit:%)
0 613		range	

			Initial value: 1 ·
0 614	406015	Drop correction	Initial value: 1 ; Optional: 0100 % correction; 150% correction; 2 - 25% correction.
	l eters - slow plus jog		
0 615	406016	Slow plus jog switch	Initial value: 0 ; 1 : On ; 0 : Off .
0 616	406017	Jog effective time	Initial value : 0.5 ; range: 0 to9.9 . (unit s)
0 617	406018	Jog invalid time	Initial value : 0.5 ; range: 0 to9.9 . (unit s)
	eters - there are buck		
		Single combination	
0 618	406019	number	First: 1; range: 0 ~ 99.
0 619~ 0649	40620 ~ 40650	Reserved	
Recipe param	<u>.</u> eters - no bucket para	ameters	
		Bagging delay start	
0 650	406051	time again	Initial value : 4.0 ; range: 0 to 99 .9 . (unit s)
0 651~ 0699	406052~40700	Reserved	
Recipe param	eters - PLC mode	<u>.</u>	
0 700	40701		
0700	40701	Cuper difference	
0 701	40702	Super difference	0 ~ maximum range
0 702	40703		
0 703	40704	Underbalance	0 ~ maximum range
0 704	40705		
0 705	40706	Upper limit	0 ~ maximum range
0 706	40707		
0 707	40708	lower limit	0 ~ maximum range
0 708~ 0749	40709~40750	Reserved	
	eters - tons of scale n	node	
0 750	40751	Hanger delay time	Initial value : 0.5 ; range: 0 to 99.9 . (unit s)
0 751	40752	Bracket automatic rise switch	Initial value: 0 ; 1 : On ; 0 : Off
0 752	40753	Bracket uplink delay time	Initial value: 5.0; range: 0 ~ 99.9. (unit s)
0 753	40754	Bracket down delay time	Initial value: 5.0; range: 0 ~ 99.9. (unit s)
0 754	40755	Metering bracket uplink timeout	Initial value: 5.0; range: 0 ~ 99.9. (unit s)
0 755	40756	Metering bracket downlink timeout	Initial value: 5.0; range: 0 ~ 99.9. (unit s)
0 756	40757	Blowing time	Initial value : 0.5 ; range: 0 to 99.9 . (unit s)
0 757	40758	Belt A running time (reserved)	Initial value: 5.0; range: 0 ~ 99.9. (unit s)

		Dalt D munning		
0 758	40759	Belt B running time (reserved)	Initial value: 5.0; range: 0 ~ 99.9. (unit s)	
0 759~ 0799	40760~40800	Reserved		
Recipe parame	Recipe parameters - valve port mode			
0 800	40801	Bag delay time	Initial value : 0.5 ; range: 0 to 99.9 . (unit s)	
0 801	40802	Bag effective time	Initial value : 0.5 ; range: 0 to 99.9 . (unit s)	
0 802	40803	Push bag delay time	Initial value : 0.5 ; range: 0 to 99.9 . (unit s)	
0 803	40804	Push bag effective	Initial value : 0.5 ; range: 0 to 99.9 . (unit s)	
0 804~ 0999	40 804~ 41000	time Reserved		
		() bag parameters (rese	arved 1000~1200 \	
Peripheral par	ameters - beat (docr	() bag parameters (rese		
			Initial value: 0 ; Optional:	
			0 : Do not shoot the bag ;	
			1 : After the fixed value, the bag is taken ;	
1000	41001	Bag mode	2 : Shooting bag in the feeding ;	
			3: After the addition averagevalue and shot bags.	
			There are buckets to set: 0,1 ;	
			No bucket can be set: 0~3 .	
1001	41002			
1002	41003	Bag start weight	Initial value: 0 ; Range: 0 ~Maximum range.	
		Number of shots in	Initial value: 0 ; range: 0~99 .	
1003	41004	the feed	Set the parameters for the number of shots in the feed .	
		Number of shots	Initial value: 4 ; Range: 0~99 .	
1004	41005	after setting	Set the parameters for the number of shots after the value is set .	
1005	41000	Delay before the	Initial value: 0.5 ; range : 0~99.9 . (unit s)	
1005	41006	bag	After the bag is started , the bag output is valid after this delay time.	
1006	41007	Bag time	Initial value: 0.5 ; range: 0~99.9 . (unit s)	
1006	41007		During the on-off cycle of the bag, the bag output valid time.	
1007	41000	Destines involid	Initial value: 0.5 ; range : 0~99.9 . (unit s)	
1007	41008	Bag time invalid	In the on-off cycle of the bag, the bag output invalid time.	
		Extra shot bag		
1008	41009	output effective	Initial value: 0 ; range : 0~99.9 .(unit s)	
		time		
1009~1019	41010 ~ 41020	Reserved		
Peripheral par	ameters - coding par	ameters		
1020	41021	Code switch	Initial value: 0 ; 1 : On ; 0 : Off .	
1021	41022	Code start delay	Initial value: 0. 5 ; range: 0 to 99 .9 . (unit s)	
1022	41023	Code valid time	Initial value: 0. 5 ; range: 0 to 99 .9 . (unit s)	
		Not be allowed to	Initial value: 0 ;	
1023	41024	add a code	0 : The discharge output or the feed output is allowed to start	
		whenunloading	during the coding process;	
		L – – – – – – – – – – – – – – – – – – –		

			1. The discharge entropy on freed entropy is not ellowed to show
			1 : The discharge output or feed output is not allowed to start during the coding process.
1024~1020	41025~41020	Decement	during the county process.
1024~1029	41025~41030 rameters - sewing ma	Reserved	
Peripiteral par	ameters - sewing ma	-	
1030	41031	Sewing machine	Initial value: 0. 5 ; range: 0 to 99 .9 . (unit s)
		start delay	
1031	41032	Sewing machine output effective	Initial value: 4.0 ; range: 0 to 99 .9 . (unit s)
1031	41052	output effective time	
1032	41033	Tangent output time	Initial value: 0. 5 ; range: 0 to 99 .9 . (unit s)
		Delay before sewing	
1033	41034	machine	Initial value: 0. 5 ; range: 0 to 99 .9 . (unit s)
1034~1039	41035~41040	Reserved	
Peripheral par	ameters - unloading	rapping parameters	
1040	41041	Unloading rapping switch	Initial value: 0 ; 1 : On ; 0 : Off .
		Unloading effective	
1041	41042	time	Initial value: 2. 0 ; range: 0 to9.9 . (unit s)
1042	41043	Unloading rapping effective time	Initial value: 0. 5 ; range: 0 to9.9 . (unit s)
1043	41044	Unloading rapping invalid time	Initial value: 0. 5 ; range: 0 to9.9 . (unit s)
1044	41045	Unloading	Initial value: 10 ; Range: 0 to 99 .
1044	41043	frequency	
1045~1049	41046~41050	Reserved	
Peripheral par	ameters - loading an	d unloading timeout jud	dgment parameters
		Loading and	
1050	41051	unloading timeout	Initial value: 0 ; 1 : On ; 0 : Off .
		judgment switch	
1051	41052	Fast timeout	Initial value: 5.0 ; range: 0 to 99 .9 . (unit s)
1052	41053	Medium plus timeout	Initial value: 5.0 ; range: 0 to 99 .9 . (unit s)
1053	41054	Slow plus timeout	Initial value: 5.0 ; range: 0 to 99 .9 . (unit s)
1054	41055	Discharge timeout	Initial value: 5.0 ; range: 0 to 99 .9 . (unit s)
1055~1059	41056~41060	Reserved	
Peripheral par	rameters - auxiliary _l	oulse parameters	
		Auxiliary	
1060	41061	pulse 1execution	Initial value: 0.0 ; Range: 0 to 9 9 9.9 . (unit s)
		total time	
		Auxiliary	Initial value: 10.0 ;
1061	41062	pulse 1effective	Range: 0 to 9 9 9.9 . (unit s)
		time	

		Auxiliant	Initial values 10.0
1062	41063	Auxiliary pulse 1invalid time	Initial value: 10.0 ;
		-	Range: 0 to 9 9 9.9 . (unit s)
1062	41064	Auxiliary	Initial value: 0.0 ;
1063	41064	pulse 2execution total time	Range: 0 to 9 9 9.9 . (unit s)
1064	41005	Auxiliary	Initial value: 10.0 ;
1064	41065	pulse 2effective	Range: 0 to 9 9 9.9 . (unit s)
		time	Initial value: 10.0 ·
1065	41066	Auxiliary	Initial value: 10.0 ;
		pulse 2invalid time	Range: 0 to 9 9 9.9 . (unit s)
1066	41067	Auxiliary	Initial value: 0.0 ;
1066	41067	pulse 3execution total time	Range: 0 to 9 9 9.9 . (unit min)
1067	41068	Auxiliary pulse 3effective	Initial value: 10.0 ;
1007	41068	time	Range: 0 to 9 9 9.9 . (unit min)
		Auxiliary	Initial value: 10.0 ;
1068	41069	pulse 3invalid time	Range: 0 to 9 9 9.9 . (unit min)
		•	
1069	41070	Auxiliary pulse 4execution	Initial value: 0.0 ;
1003	41070	total time	Range: 0 to 9 9 9.9 . (unit min)
		Auxiliary	
1070	41071	pulse 4effective	Initial value: 10.0 ;
10/0		time	Range: 0 to 9 9 9.9 . (unit min)
		Auxiliary pulse 4	Initial value: 10.0 ;
1071	41072	invalid time	Range: 0 to 9 9 9.9 . (unit min)
1072~1079	41073~41080	Reserved	
	ameters - conveyor		
1080	41081	Conveyor switch	Initial value: 0 ; 1 : On ; 0 : Off .
1081	41082	Conveyor start delay	Initial value: 0. 5 ; range: 0 to 99 .9 . (unit s)
		Conveyor running	
1082	41083	time	Initial value: 4.0 ; range: 0 to 99 .9 . (unit s)
108 3 ~ 1089	4108 4 ~ 41090	Reserved	
	ameters - print parar		
		Automatic print	
1090	1091	switch	Initial value: 0 , 1 : On ; 0 : Off
<u> </u>			Initial value : 0 ;
1091	1092	Print format	0 : 24 columns of printing ; 1 : 32 columns of printing .
1092	1093	Print language	Initial value : 0 ; 0 : Chinese; 1 : E nglish .
		Print the number of	
1093	1094	lines	Initial value: 3 ; Range: 0 to 9 .
1094~1199	4 1095 ~41200	Reserved	
1007 1100	. 1000 41200		

Auxiliary logic	programming 1 -6 (reserved 1200~1400)	
, 3*		,	Initial value : 0 ; range 0~5 .
			0 : off
			1 : Delay on
1200	41 201	Types of	2 : Delayed disconnection
			3 : Delay on and delay off
			4 : Invalid - valid edge trigger
			5 : valid - invalid edge trigger
			Initial value : 0 ; range: 0~64 .
1201	41 202	Triggor signal	Can be selected from the definition of the trigger input port , fixed
1201	41 202	Trigger signal	digital input port1~12, digital output definition, weight value
			trigger.
		Trigger input signal	Initial value : 0 ; range 0~12 .
1202	41 203	port	Select the digital input port 0~12 corresponding to this function
			signal , and input port 0 means that this function is not defined.
			Initial value : 0 ; range 0~16 .
1203	41 204	Output signal port	Select the digital output port 0~16 corresponding to the function
			signal, and the output port- 0 means that the function is not defined.
			Initial value : 0 ; range: 0~99.9 . (unit s)
1204	41 205	Delay on time	After the trigger signal is valid, the logic output signal is valid after
		beidy on time	the delay.
			Initial value : 0 ; range: 0~99.9 . (unit s)
1205	41 206	Delayed off time	After the trigger signal is invalid, the logic output signal will be
			invalid after the delay.
		Signal output	Initial value : 0 ; range: 0~99.9 . (unit s)
1206	41 207	Signal output effective time	The duration after the logic output signal is valid, and becomes
	T		invalid after the end of the time.
1207	41 208		Initial value: 0 ; Range: 0~999999
1208	41 209	Threshold weight	When the trigger signal selects "Threshold Weight", the current
4200 ~ 4240	44 240 - 44 220	Deserved	weight is compared to this value.
1209 ~ 1219	41 210 ~41220 programming 2	Reserved	
Auxiliary logic			Initial value : 0 ; range 0~5 .
			0 : off
			1 : Delay on
1220	41 221	Tupos of	
1220	41 221	Types of	2 : Delayed disconnection3 : Delay on and delay off
			4 : Invalid - valid edge trigger
			5 : valid - invalid edge trigger
			Initial value : 0 ; range: 0~64 .
1221	41 222	Trigger signal	Can be selected from the definition of the trigger input port , fixed
		I	can be selected from the definition of the trigger input port, liked

			distal insult and and a distal subsult definition unlike using
			<pre>digital input port1~12, digital output definition, weight value trigger.</pre>
			Initial value : 0 ; range 0~12 .
1222	41 223	Trigger input signal	Select the digital input port 0~12 corresponding to this function
		port	signal , and input port 0 means that this function is not defined.
			Initial value : 0 ; range 0~16 .
1223	41 224	Output signal port	Select the digital output port0~16 corresponding to the function
1225	41 224		signal, and the output port- ${f 0}$ means that the function is not
		-	defined.
			Initial value : 0 ; range: 0~99.9 . (unit s)
1224	41 225	Delay on time	After the trigger signal is valid, the logic output signal is valid after
			the delay.
			Initial value : 0 ; range: 0~99.9 .(unit s)
1225	41 226	Delayed off time	After the trigger signal is invalid, the logic output signal will be
		 	invalid after the delay.
1226	41 227	Signal output	Initial value : 0 ; range: 0~99.9 . (unit s) The duration after the logic output signal is valid, and becomes
1220	41 227	effective time	invalid after the end of the time.
1227	41228		Initial value: 0 ; Range: 0~999999
122/		Threshold weight	When the trigger signal selects "Threshold Weight", the current
1228 41229	41229		weight is compared to this value.
1229 ~1239	41 230 ~ 41240	Reserved	
Auxiliary logic	c programming 3	-	
			Initial value : 0 ; range 0~5 .
			0 : off
			1 : Delay on
1240			
	41 241	Types of	2 : Delayed disconnection
	41 241	Types of	2 : Delayed disconnection3 : Delay on and delay off
	41 241	Types of	
	41 241	Types of	3 : Delay on and delay off
	41 241	Types of	3 : Delay on and delay off4 : Invalid - valid edge trigger
			 3 : Delay on and delay off 4 : Invalid - valid edge trigger 5 : valid - invalid edge trigger Initial value : 0 ; range: 0~64 . Can be selected from the definition of the trigger input port , fixed
1241	41 241	Types of Trigger signal	3 : Delay on and delay off 4 : Invalid - valid edge trigger 5 : valid - invalid edge trigger Initial value : 0 ; range: 0~64 .
			 3 : Delay on and delay off 4 : Invalid - valid edge trigger 5 : valid - invalid edge trigger Initial value : 0 ; range: 0~64 . Can be selected from the definition of the trigger input port , fixed digital input port1~12 , digital output definition, weight value trigger.
1241	41 242		 3 : Delay on and delay off 4 : Invalid - valid edge trigger 5 : valid - invalid edge trigger Initial value : 0 ; range: 0~64 . Can be selected from the definition of the trigger input port , fixed digital input port1~12 , digital output definition, weight value trigger. Initial value : 0 ; range 0~12 .
		Trigger signal	 3 : Delay on and delay off 4 : Invalid - valid edge trigger 5 : valid - invalid edge trigger Initial value : 0 ; range: 0~64 . Can be selected from the definition of the trigger input port , fixed digital input port1~12 , digital output definition, weight value trigger. Initial value : 0 ; range 0~12 . Select the digital input port 0~12 corresponding to this function
1241	41 242	Trigger signal Trigger input signal	 3 : Delay on and delay off 4 : Invalid - valid edge trigger 5 : valid - invalid edge trigger Initial value : 0 ; range: 0~64 . Can be selected from the definition of the trigger input port , fixed digital input port1~12 , digital output definition, weight value trigger. Initial value : 0 ; range 0~12 . Select the digital input port 0~12corresponding to this function signal , and input port 0 means that this function is not defined.
1241	41 242	Trigger signal Trigger input signal	 3 : Delay on and delay off 4 : Invalid - valid edge trigger 5 : valid - invalid edge trigger Initial value : 0 ; range: 0~64 . Can be selected from the definition of the trigger input port , fixed digital input port1~12 , digital output definition, weight value trigger. Initial value : 0 ; range 0~12 . Select the digital input port 0~12corresponding to this function signal , and input port 0 means that this function is not defined. Initial value : 0 ; range 0~16 .
1241	41 242	Trigger signal Trigger input signal	 3 : Delay on and delay off 4 : Invalid - valid edge trigger 5 : valid - invalid edge trigger Initial value : 0 ; range: 0~64 . Can be selected from the definition of the trigger input port , fixed digital input port1~12 , digital output definition, weight value trigger. Initial value : 0 ; range 0~12 . Select the digital input port 0~12corresponding to this function signal , and input port 0 means that this function is not defined. Initial value : 0 ; range 0~16 . Select the digital output port0~16 corresponding to the function
1241 1242	41 242 41 243	Trigger signal Trigger input signal port	 3 : Delay on and delay off 4 : Invalid - valid edge trigger 5 : valid - invalid edge trigger Initial value : 0 ; range: 0~64 . Can be selected from the definition of the trigger input port , fixed digital input port1~12 , digital output definition, weight value trigger. Initial value : 0 ; range 0~12 . Select the digital input port 0~12corresponding to this function signal , and input port 0 means that this function is not defined. Initial value : 0 ; range 0~16 . Select the digital output port0~16 corresponding to the function signal , and the output port-0 means that the function is not
1241 1242	41 242 41 243	Trigger signal Trigger input signal port	 3 : Delay on and delay off 4 : Invalid - valid edge trigger 5 : valid - invalid edge trigger Initial value : 0 ; range: 0~64 . Can be selected from the definition of the trigger input port , fixed digital input port1~12 , digital output definition, weight value trigger. Initial value : 0 ; range 0~12 . Select the digital input port 0~12corresponding to this function signal , and input port 0 means that this function is not defined. Initial value : 0 ; range 0~16 . Select the digital output port0~16 corresponding to the function

			After the trigger signal is valid, the logic output signal is valid after the delay.
1245	41 246	Delayed off time	Initial value : 0 ; range: 0~99.9 .(unit s) After the trigger signal is invalid, the logic output signal will be invalid after the delay.
1246	41 247	Signal output effective time	Initial value : 0 ; range: 0~99.9 .(unit s) The duration after the logic output signal is valid, and becomes invalid after the end of the time.
1247	41248		Initial value: 0 ; range: 0~999999.
1248	41249	Threshold weight	When the trigger signal selects "Threshold Weight", the current weight is compared to this value.
1249 ~ 1259	41 250 ~41260	Reserved	
Auxiliary logic	programming 4		
			Initial value : 0 ; range 0~5 .
			0 : off
			1 : Delay on
1260	41 261	Types of	2 : Delayed disconnection
			3 : Delay on and delay off
			4 : Invalid - valid edge trigger
			5 : valid - invalid edge trigger
			Initial value : 0 ; range: 0~64 .
1001	44.959		Can be selected from the definition of the trigger input port , fixed
1261	41 262	Trigger signal	digital input port 1^{-12} , digital output definition, weight value
			trigger.
		Trigger input signal	Initial value : 0 ; range 0~12 .
1262	41 263	port	Select the digital input port 0~12 corresponding to this function
			signal , and input port 0 means that this function is not defined.
			Initial value : 0 ; range 0~16 .
1263	41 264	Output signal port	Select the digital output port 0~16 corresponding to the function signal, and the output port- 0 means that the function is not defined.
1264	41 265	Delay on time	Initial value : 0 ; range: 0~99.9 .(unit s) After the trigger signal is valid, the logic output signal is valid after the delay.
1265	41 266	Delayed off time	Initial value : 0 ; range: 0~99.9 .(unit s) After the trigger signal is invalid, the logic output signal will be invalid after the delay.
1266	41 267	Signal output effective time	Initial value : 0 ; range: 0~99.9 .(unit s) The duration after the logic output signal is valid, and becomes invalid after the end of the time.
1267	41268	Throchold waitht	Initial value: 0 , range: 0~999999 .
1268	41269	Threshold weight	When the trigger signal selects "Threshold Weight", the current

			weight is compared to this value.
1269 ~ 1279	41 270 ~ 41280	Reserved	
	programming 5		
, 0			Initial value : 0 ; range 0~5 .
			0 : off
			1 : Delay on
1280	41281	Types of	2 : Delayed disconnection
			3 : Delay on and delay off
			4 : Invalid - valid edge trigger
			5 : valid - invalid edge trigger
			Initial value : 0 ; range: 0~64 .
4004	44.202		Can be selected from the definition of the trigger input port , fixed
1281	41282	Trigger signal	digital input port 1^{-12} , digital output definition, weight value
			trigger.
		Trigger input signal	Initial value : 0 ; range 0~12 .
1282	41283	port	Select the digital input port 0~12 corresponding to this function
	T		signal , and input port 0 means that this function is not defined.
			Initial value : 0 ; range 0~16 .
1283	41284	Output signal port	Select the digital output port 0~16 corresponding to the function
			signal, and the output port- 0 means that the function is not
			defined.
1284	41205	Delay on time	Initial value : 0 ; range: 0~99.9 .(unit s)
1204	41285		After the trigger signal is valid, the logic output signal is valid after the delay.
			Initial value : 0 ; range: 0~99.9 . (unit s)
1285	41286	Delayed off time	After the trigger signal is invalid, the logic output signal will be
			invalid after the delay.
			Initial value : 0 ; range: 0~99.9 . (unit s)
1286	41287	Signal output	The duration after the logic output signal is valid, and becomes
		effective time	invalid after the end of the time.
1287	41288		Initial value: 0 ; Range: 0~ Maximum range.
1288	41289	Threshold weight	When the trigger signal selects "Threshold Weight", the current
	41203	1	weight is compared to this value.
1289 ~1299	41290~41300	Reserved	
Auxiliary logic	programming 6	<u> </u>	T.
			Initial value : 0 ; range 0~5 .
			0 : off
			1 : Delay on
1300	41301	Types of	2 : Delayed disconnection
			3 : Delay on and delay off
			4 : Invalid - valid edge trigger
	<u> </u>		5 : valid - invalid edge trigger

1		
41302	Trigger signal	Initial value : 0 ; range: 0~64 . Can be selected from the definition of the trigger input port , fixed digital input port 1~12 , digital output definition, weight value trigger.
41303	Trigger input signal port	Initial value : 0 ; range 0~12 . Select the digital input port 0~12 corresponding to this function signal , and input port 0 means that this function is not defined.
41304	Output signal port	Initial value : 0 ; range 0~16 . Select the digital output port 0~16 corresponding to the function signal, and the output port- 0 means that the function is not defined.
41305	Delay on time	Initial value : 0 ; range: 0~99.9 .(unit s) After the trigger signal is valid, the logic output signal is valid after the delay.
41306	Delayed off time	Initial value : 0 ; range: 0~99.9 .(unit s) After the trigger signal is invalid, the logic output signal will be invalid after the delay.
41307	Signal output effective time	Initial value : 0 ; range: 0~99.9 .(unit s) The duration after the logic output signal is valid, and becomes invalid after the end of the time.
41308		Initial value: 0 ; range: 0~999999.
41309	Threshold weight	When the trigger signal selects "Threshold Weight", the current
		weight is compared to this value.
eters - feeding mode		
41400	Motor group number used in the current recipe	Initial value: 0 ; Range: 0~4
41402	Feed mode	Initial value : 0 ; Optional: 0 : pneumatic feeding ; 1 :stepping motor feeding; 2 : Ordinary motor feeding .
41403	Feeding gate closing timeout	Initial value: 4.0 ; range: 0~99.9. (unit s)
	Feed gate	Initial value: 0 ; Optional:
41404	in-position signal type	• 0 : The signal is in place when it is valid; 1 : When the signal is invalid, it is in place .
41404 41405		0 : The signal is in place when it is valid;
	41303 41304 41304 41305 41306 41306 41307 41308 41309 41310~41400 eters - feeding mode 41400 41402	41303Trigger input signal port41304Output signal port41305Delay on time41306Delayed off time41307Signal output effective time41308Threshold weight41309Motor group number used in the current recipe41400Reserved41402Feed mode41403Feeding gate closing timeout

1406	41407	Adding material to slow down and adding the required number of pulses	Initial value : 1800 ; range: 1~60000 .	
1408	41409	The number of pulses required for feeding to close	Initial value : 4300 ; range: 1~60000 .	
1410	41411	Feeding off to fast increase the number of pulses required	Initial value : 7750 ; range: 1~60000 .	
1412	41413	Feed switch direction signal status	Initial value : 0 ; Optional: 0 : the door opening directionwhen the signal is valid ; 1 : The door opening directionis when the signal is invalid .	
1413	41414	Feed motor starting frequency	Initial value : 2000 ; Range: 0~50000Hz (This value should preferably not be greater than the feeding motor frequency)	
1414	41415	Feed motor acceleration time	Feed motor acceleration time Initial value: 200 ; Range: 0~9999 . (unit s)	
1415	41416	Feed motor deceleration time	Feed motor deceleration time Initial value: 50 ; Range: 0~9999 . (in ms)	
1416	41417	Quickly open the door	Initial value: 0.80 ; Range : 0~99.99 . (unit s)	
1417	41418	China and Canadaopening time	Initial value: 0.40 ; Range: 0~99.99 . (unit s)	
1418	41419	Slow opening time	Initial value: 0.20 ; Range: 0~99.99 . (unit s)	

1419	41420	Bag mode	 Initial value: 0; Optional: 0: pneumatic clamp loose bag; 1: stepper motor clip loose bag; 2: motor double limit clip loose bag; 3: Motor single limit clip loose bag.
1420	41421	Loose bagprocesstimeout	Initial value: 3.0 ; Range: 0 ~ 99.9 . (unit s)
1421	41422	Baggingprocesstimeout	Initial value: 3.0 ; range: 0~99.9 . (unit s)
1422	41423	Loose bag in place signal type	Initial value: 0 ;

			Optional:	
			0 : The signal is in place when it is valid ;	
			1 : When the signal is invalid, it is in place .	
1423	41424	Bag motorfrequency	Initial value: 30000 ; Range: 1~50000 Hz .	
1 424	41425	Matsumotomotorfrequency	Initial value: 20000 ; range: 1~50000 Hz .	
1425	41426	The number of pulses required		
1426	41427	for the bag	Initial value: 12000 ; range: 1~60000 .	
1427	41428	Bag direction signal status	 Initial value: 0; Optional: 0: when the signal is invalid, it is the direction of the pocket; 1: When the signal is valid, it is the direction of the pocket. 	
1428	41429	Bag motor starting frequency	Initial value: 2000 ; range: 0 ~ 50000 Hz . (This value cannot be greater than the pocket frequency)	
1429	41430	Bag motor acceleration time	Initial value: 200 ; Range: 0~9999 . (in ms)	
1430	41431	Bag motor deceleration time	Initial value: 50 ; Range: 0~9999 (in ms) .	
1431	41432	Loose bageffective time	Initial value: 0.5 , range: 0~99.99 . (unit s)	
1432	41433	Discharge mode	 Initial value: pneumatic mode; 0, pneumatic mode; 1. Stepper motor unloading; 2, motor single limit discharge; 3, the motor double limit discharge; 4. The motor rotates and unloads in one direction. 	
1433	41434	Discharge closing timeout	Initial value : 3.0 ; range: 0 ~ 99.9 . (unit s)	
1434	41435	Unloading timeout	Initial value : 3.0 ; range: 0 ~ 99 .9 . (unit s)	
1435	41436	Discharge in place signal type	 Initial value: 0 ; Optional: 0 , the signal is in place when it is valid . 1. When the signal is invalid, it is in place . 	
1436	41437	Unloading limit real-time detection switch	Initial value : 0 ; 0 : off ; 1 : on.	
1437	41438	Unloading door motor frequency	Initial value : 30000 ; range: 1~50000 (Hz) .	
1438	41439	Discharge closing motor frequency	Initial value : 20000 ; range: 1~50000 (Hz) .	
1439	41410	Number ofpulsesrequired for	Initial value : 12000 ; range: 1~60000 .	

144 1 1442 1443	41412 41416 41414	Discharge direction signal status Unloading motor starting frequency Unloading motor acceleration time Unloading motor deceleration	Initial value : 0 ; Optional: 0 : the door opening direction when the signal is invalid 1: valid signal to the door opening direction Initial value: 2000 ; range: 1~50000 (Hz). (This value cannot be greater than the discharge frequency) Initial value: 200 ; Range: 0~9999. (in ms) Initial value: 50 ;
1444	41415	time	Range: 0~9999 . (in ms)
1445	41416	Unloading door opening time	Initial value: 1.00 ; Range: 0~99.99 . (unit s)
1446~1599	41417~41600	Reserved	
Communicat	tion parameters	- serial port 1 parameters (reserved	1600~1700) 485
1600	41601	Slave number	Initial value: 1 ; 1 ~ 9 9 optional.
1601	41602	communication method	 0 : Modbus-RTU ; 1 : Print 2 : continuous mode 3 : MD-R (compatible with 01. version)
1602	41603	Baud rate	0 : 9600 1 : 119200 2 : 38400 3 : 57600 4 : 115200
1603	41604	Data Format	Communication data format selection (data bit, parity bit, stop bit . E : even parity; N : no parity) 0 : 8-E-1 1 : 8-N-1 2 : 7-E-1 3 : 7-N-1
1604	41605	High and low words	 Initial value : 0 : The high word is in the front low word after ; Range : 0-1 0 : the high word is in the front low word after ; 1 : The low word is in the front high word .
	-	- serial port 2 parameters 232	
1605	41606	Slave number	Initial value: 1 ; 1 ~ 9 9 optional.
1606	41607	communication method	 0 : Modbus-RTU ; 1 : Print 2 : continuous mode 3 : MD-R (compatible with 01. version)

			0:9600
4 6 9 7	44.699	Developte	1:119200
1607	41608	Baud rate	2:38400
			3:57600
			4 : 115200
			Communication data format selection (data bit,
			parity bit, stop bit . E : even parity; N : no parity)
1 608	41609	Data Format	0 : 8-E-1 1 : 8-N-1
			2 : 7-E-1
			3 : 7-N-1
			Initial value : 0 : high word in front of low word after
1609	41610	High and low words	Range : 0-1 .
1005	41010		0 : the high word is in the front low word after ;
			1 : The low word is in the front high word .
Communicat	tion narameters	l - network port parameters	
			Initial value : 0 : The high word is in the
			front low word after ;
1610	41611	High and low byte	Range : 0-1 .
1010	41011		0 : the high word is in the front low word after ;
			1 : The low word is in the front high word .
1611	41612	The port number	Initial value: 502 ; Range: 1 ~ 65535
1 612	41613		
1613	41614		Initial value: 192.168.1 01 . 246 .
1614	41615	IP	Range: 0 ~ 255 .
1615	41616		
1616~1699	41617~41700	Reserved	
Switching cu	istom parameter	rs (reserved 1800~1900)	
1700	41701	Digital input port 1 definition	
1701	41702	Digital input port 2 definition]
1702	41703	Digital input port 3 definition]
1703	41704	Digital input port 4 definition	write:
1704	41705	Digital input port 5 definition	Write the function corresponding value . If IN
1705	41706	Digital input port 6 definition	is defined as running, write 1 in the corresponding
1706	41707	Digital input port 7 definition	register of IN.
1707	41708	Digital input port 8 definition	read:
1708	41709	Digital input port 9 definition	Returns the current switch custom state
1709	41710	Digital input port 10 definition	1
1710	41711	Digital input port 11 definition	1
1711	41712	Digital input port 12 definition	1
1712	41713	Switch output port 1 definition	write:

1713	41714	Switch output port 2 definition	Write function corresponding value . If OUT
1714	41715	Switch output port 3 definition	is defined as running, write 1 in the corresponding
1715	41716	Switch output port 4 definition	register of OUT.
1716	41717	Switch output port 5 definition	read:
1717	41718	Switch output port 6 definition	Returns the current switch custom state
1718	41719	Switch output port 7 definition	
1719	41720	Switch output port 8 definition	
1720	41721	Switch output port 9 definition	
1721	41722	Switch output port 10 definition	
1722	41723	Switch output port 11 definition	
1723	41724	Switch output port 12 definition	
1724	41725	Switch output port 13 definition	
1725	41726	Switch output port 14 definition	
1726	41727	Switch output port 15 definition	
1727	41728	Switch output port 16 definition	
			write:
1728	41729	Start / end switch test	The stop state can be written . Write 1 to start the switch test . The switch test state. Press input and output ports the input and output test registers, defined functions not performed. In the switch test state, write 0 to exit the switch test state . The input and output ports perform the defined functions . Read: Returns the status of the current switch test switch .
1729	41730	Input switch test	Write: not allowed to write Read: From the low to the high, the corresponding port IN1~12 input . 1 is valid for input, 0 is invalid for input .
1730	4173		Write: The switch test switch can be written in the open state, and the output from the low to the high port corresponds to the port OUT1~16 . 1 is
1731	41732	Output switching test	valid for output, 0 is invalid for output . Read: Returns the status of the current output switch port, from the low to the high, respectively, corresponding to the port OUT1~16 output . 1 is valid for output, 0 is invalid for output .
1732~1799	41733~41800	Reserved	
Other param	eter settings (re	served 1900~2000)	
1800	41801	Total print total	Read as 0 Write 1 , total print total

			Read as 0	
1801	41802	Print recipe accumulation	Write 100 to print the current recipe accumulation Write 1-20 , print the corresponding formula	
	41002		accumulation	
			Write 101 to print all reci	nes
			Read as 0	
			Write 100 to print the cu	rrent user cumulative
1802	41803	Print user accumulation	Write 0-9 , print the corre	
			cumulative	
			Write 101, print all user	cumulative
			8800 all parameters (incl	uding school scales)
			8801 all parameters (exc	luding calibration scales
			included)	8802 reset
			recipe parameters	
1803	41804	reset	8803 reset system and co	
			8804 reset peripheral par	
			8805 reset motor parame	
			880 6 reset calibration scale	
			880 7 reset switch	
		1	880 8 reset auxiliary logic parameters	
		Parameter backup	read:	
			0: There is no backup parameter currently;	
1004	44005		1: There are currently backup parameters. write:	
1804	41805			amatar backup:
			Write 9900 execution parameter backup; Write 9901 to perform a recovery backup;	
			Write 9902 to perform a	, ,
1805	41806			
1806	41807	Backup date		Dead ank
18 07	41808	Deeluun time		Read only
1808	41809	Backup time		
1809	41810	year	0 -99	
1810	41811	month	1 -12	
1811	41812	day	1 -31	
1812	41813	Time	0-23	
1813	41814	Minute	0 -59	
1814	41815	second	0 -59	
1815	41816	Clear total accumulation	Write 1 clear total accum	ulation
			Write 1-20 to clear the co	prresponding accumulated
	41817		data ;	
1816		Clear recipe accumulation	Write 100 to clear the current recipe	
			accumulation ;	
			Write 101 clears all recipe	e accumulations .

1817 Batch setting 1950 1951	41818 g 41951 41952	Clear user accumulation batch Remaining batch	Read as 0 . Write 0-9 to clear the corresponding user accumulation ; Write 100 to clear the current user accumulation ; Write 101 clears all user accumulations . Initial value: 0 ; range: 0 ~ 50000 . Read only	
1952~1999	41952	Reserved		
	get value (reserve	-		
2000	42001	Formula 1 target value	Initial value : 0 .	
2001 2002	42002 42003	Recipe 2 target value	Initial value : 0 .	
2003	42004			
2038 2039	42039 42040	Recipe 20 target value	Initial value : 0 .	
Cumulative	weight	-		
2040	42041	Total cumulative weight		
2041	42042	is 6 digits	Read only	
2042	42043	The total cumulative weight		
2043	42044	low 9		
2044	42045	Total accumulated number of	Read only	
2045	42046	packets	,	
2046	42047	Formula 1 cumulative weight		
2047	42048	is 6 digits high		
2048	42049	Formulation 1 cumulative weight		
2049	42050	low 9	Read only	
2050 2051	42051 42052	Formula 1cumulative count		
		······		
2160	42161	Formulation 6High 20cumulative		
2161	42162	weight		
2162	42163	Formulation20 cumulative		
2163	42164	weight low 9		
2164	42165	Formula 20 cumulative times		
2165	42166			

User cumula	ative weight and	d number of times	
2166	42167	User O cumulative weight	
2167	42168	is 6 digits high	
2168	42169	User O cumulative weight	
2169	42170	is 9 digits lower	
2170	42171	Liser Onumulative times	Read only
2171	42172	User O cumulative times	
2172	42173	User 1 has a cumulative weight	
2173	42174	of 6 digits	
2174	42175	1 usercumulative weight low 9	
2175	42176		
2176	42177	User 1 cumulative count	
2177	42178		
2178	42179	User 2 cumulative weight	
2179	42180	is 6 digits high	
2180	42181	2 usersaccumulated weight	
2181	42182	low 9	
2182	42183	User 2 cumulative times	
2183	42184		
2184	42185	User 3 cumulative weight	
2185	42186	is 6 digits	
2186	42187	Usercumulative weight low 93	
2187	42188		
2188	42189	User 3 cumulative times	
2189	42190		
2190	42191	User 4 cumulative weight	
2191	42192	is 6 digits	
2192	42193	4 usersaccumulated weight	
2193	42194	low 9	
2194	42195	User 4 cumulative times	
2195	42196		4
2196	42197	User 5 cumulative weight	
2197	42198	is 6 digits	4
2198	42199	Usercumulative weight low 95	
2199	42200		4
2200	42201	User 5 cumulative times	
2201	42202		
2202	42203	User 6 cumulative weight	
2203	42204	is 6 digits	

2204	42205	6 usersaccumulated weight	
2205	42206	low 9	
2206	42200		
2200	42208	User 6 cumulative times	
2208	42209	User 7 cumulative weight	
2208	42209	is 6digits	
2203	42210		
2210	42211	Usercumulative weight low 97	
2211	42212		
2212	42213	User 7 cumulative times	
2213	42214	Llear 9 augustivo woight	
2214	42215	User 8cumulative weight is 6digits	
2216	42217	8 userscumulative weight low 9	
2217 2218	42218 42219		
		User 8 cumulative times	
2219	42220		-
2220	42221	User 9 cumulative weight	
2221	42222	is 6 digits	-
2222	42223	Usercumulative weight low 99	
2223	42224		-
2224	42225	User 9 cumulative times	
2225	42226		
2226~2299	42227~42300	Reserved	
-	-	ved 9000~9100)	
9000	49001	Background version number	For example : 0 1000 0
9001	49002		
9002	49003	Background compilation date	For example : 161201
9003	49004		
9004	49005	Background compile time	For example : 130805
9005	49006		
9006	49007	Additional version number	For example : 100
9007	49008		
9008~9099	49009~49100	Reserved (reserved 9100~9200)	
	(reserved 0~100	-	
0	40001	start up	
1	40002	Emergency stop	
2	40003	Slow stop	
3	40004	time out	
4	40005	Clear	
5	40006	Clear alarm	

6	40007	Clip pocket			
7	40008	Selection formula			
8	40009	Manual slow addition	This address can only be written		
9	40010	Manually add	to 1 .		
10	40011	Manual unloading	Read 1 is valid and 0 is invalid.		
11	40012	Manual cleaning	-		
12	40013	Hanging bag			
13	40014	Sewing machine start			
14	40015	Sewing machine emergency stop			
15	40016	Auxiliary pulse function 1			
16	40017	Auxiliary pulse function 2			
17	40018	Auxiliary pulse function 3			
18	40019	Auxiliary pulse function 4			
19	40020	Clear advance information			
80	40081	Clear current user accumulation			
81	40082	Clear all users	Write 1 is valid.		
82	40083	Clear current formula accumulation			
83	40084	Clear all formula accumulation			
84	40085	Total accumulation			
100	40101	Reset all parameters			
101	40102	Calibration parameter reset	-		
102		System and communication parameters reset			
	40103	(not including communication parameters)	-		
103	40104	Recipe parameter reset	•		
104	40105	Peripheral parameter reset	Write 1 is vali	d	
105	40106	Switching parameter reset			
106	40107	Motor parameter reset			
107	40108	Auxiliary logic parameter reset			
108	40109	Perform parameter backup			
109	40110	Restore backup parameters			
110	40111	Delete backup parameters	This address can only be written to 1 to delete backup parameters. Read 1 has backup parameters; Read 0 as no backup parameter .		
Coil switch t	est (reserved 20	00~250)	-		
150	40151	Switching test switch:			
150	40151	When writing into the test switch 1 ; 0 is written to exit. Not writable at runtime			
151	40152	When input port 1 is valid, it reads 1 ; if it is invalid, it is 0 . Does not take effect		Does not take effect	
152	40153	When input port 2 is valid, it reads 0 ; if it is invalid, it is 0 . when writing.			

153	40154	When input port 3 is valid, it is read as 1 ; if it is invalid, it is 0 .		
154	40155	When input port 4 is valid, it reads 1 ; if it is invalid, it is 0 .		
155	40156	When input port 5 is valid, it reads 1 ; if it is invalid, it is 0 .		
156	40157	When input port 6 is valid, it reads 1 ; if it is invalid, it is 0 .		
157	40158	When input port 7 is valid, it reads 1 ; if it is invalid, it is 0 .		
158	40159	When input port 8 is valid, it reads 1 ; if it is invalid, it is 0 .		
159	40160	When input port 9 is valid, it reads 1 ; if it is invalid, it is 0 .		
160	40161	When input port ${f 10}$ is valid, it is read as ${f 1}$; if it is invalid, it is ${f 0}$.		
161	40162	When input port 11 is valid, it is read as 1 ; if it is invalid, it is 0 .		
162	40163	When input port 12 is valid, it reads 1 ; if it is invalid, it is 0 .		
163	40164	When writing 1 , output port 1 is valid; when writing 0 , output port 1 is invalid.		
164	40165	When writing 1 , output port 2 is valid; when writing 0 , output port 2 is invalid.		
165	40166	When writing 1 , the output port 3 is valid; when writing 0 , the output port 3 is invalid.		
166	4016 7	When writing 1 , the output port 4 is valid; when writing 0 , the output port 4 is invalid.		
167	40168	When writing 1 , output port 5 is valid; when writing 0 , output port 5 is invalid.		
168	40169	When writing 1 , the output port 6 is valid; when writing 0 , the output port 6 is invalid.		
169	40170	When writing 1 , the output port 7 is valid; when writing 0 , the output port 7 is invalid.		
170	40171	When writing 1 , output port 8 is valid; when writing 0 , output port 8 is invalid.		
171	40172	When writing 1 , the output port 9 is valid; when writing 0 , the output port 9 is invalid.		
172	40173	When writing ${\bf 1}$, the output port ${\bf 10}$ is valid; when writing ${\bf 0}$, the output port ${\bf 10}$		
172	40175	is invalid.		
173	40174	When writing ${f 1}$, the output port ${f 11}$ is valid; when writing ${f 0}$, the output port ${f 11}$		
		is invalid.		
174	40175	When writing 1 , the output port 12 is valid; when writing 0 , the output port 12		
		is invalid.		
175	40176	When writing 1 , the output port 13 is valid; when writing 0 , the output port 13		
		is invalid.		
176	40177	When writing 1 , the output port 14 is valid; when writing 0 , the output port 14		
		is invalid.		
177	40178	When writing 1 , the output port 15 is valid; when writing 0 , the output port 15		
		is invalid.		
178	40179	When writing 1 , the output port 16 is valid; when writing 0 , the output port 16		
		is invalid.		

Note 2: The meter will perform the weightless gain calibration according to the currently stored sensor power supply voltage, sensor sensitivity, and sensor maximum range (where the maximum range input cannot be greater than the maximum range set in the meter calibration (modbus addresses 10104 and 40105)).

Calibration principle:

Zero calibration: Zero calibration can be performed via modbus (40106 and 40107) addresses. (If you skip the zero calibration and directly perform the weightless gain calibration, the last recorded zero will be used as the current zero calibration)

Gain calibration: Gain millivolts is the input sensor power multiplied by the sensor sensitivity, and the gain weight is the sensor's maximum range. The gain millivolts and gain weight used for gain scaling here are referenced below.

The first type of weightless gain calibration method: when the sensor power supply (5000mv) is input separately, the weightless calibration operation will be directly performed.

The second type of weightless gain calibration method: input sensor sensitivity (2mv/v) and input the sensor's maximum range (1000kg) will carry out the weightless calibration operation (note here, please input only the sensor sensitivity or only input the maximum When the range is measured, the entered value is not saved immediately. Only when both values are entered and the two values entered are reasonable, the data is saved and then the gain calibration is performed.