

# GM9907-L2 User Manual

110608040003 V02.00.12\_01



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Company website http://www.szgmt.com

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

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## Contents

1.	Outline 1 -
	1.1 features and features1 -
	1.2 front panel description 1 -
	1.3 rear panel description 4 -
	1.4 Technical Specifications 4 -
	1.4. 1 General Specifications 4 -
	1.4.2 Analog part4 -
-	1.4 .3 digital part 5 -
2.	Installation 6 -
	2.1 General principles
	2.2 Load Cell connection
	2.3 I/O Module Port connection6 -
	2.4 power supply connection
	2.5 serial port connection 7 -
-	2.6 touch screen calibration 8 -
3.	menu9 -
	3.1 Recipe parameters 12 -
	3.2 system and communication parameters 17 -
	3.3 peripheral parameters 20 -
	3.4 motor parameters 25 -
	3.5 calibration 28 -
	3.6 Cumulative and batch 30 -
	3.7 I/O Module 30 -
	3.7.1 Output, input port definition 32 -
	3.7.2 IO test 39 -
	3.8 User Logic 40 -
	3.8.1 delay on 41 -
	3.8.2 delay off 42 -
	3.8.3 delay on and delay off 43 -
	3.8.4 invalid - valid edge triggered 43 -
	3.8.5 valid - invalid edge trigger 43 -
	3.9 User Manage 44 -
	3.10 System Info 45 -
4.	Function
	4.1 Setting the working mode 48 -
	4.2 batches 48 -
	4.3 level control 48 -
	4.3.1 double digit 48 -
	4.3.2 Single Level 48 -
	4.4 quick setup 48 -
	4.5 Adaptive function 49 -
	4.6 U disk upgrade software 49 -
	4.7 U disk upgrade boot interface 49 -
	4.7 U disk upgrade boot interface- 49 -4.8 Decoupling function- 50 -
	4.7 U disk upgrade boot interface- 49 -4.8 Decoupling function- 50 -4.9 Running mode of bracket- 50 -
	4.7 U disk upgrade boot interface- 49 -4.8 Decoupling function- 50 -4.9 Running mode of bracket- 50 -4.10Use method of 3 - class conveyor for ton baling scale- 51 -
5.	4.7 U disk upgrade boot interface- 49 -4.8 Decoupling function- 50 -4.9 Running mode of bracket- 50 -4.10Use method of 3 - class conveyor for ton baling scale- 51 -Serial communication- 52 -
5.	4.7 U disk upgrade boot interface- 49 -4.8 Decoupling function- 50 -4.9 Running mode of bracket- 50 -4.10Use method of 3 - class conveyor for ton baling scale- 51 -Serial communication- 52 -5.1 printing method- 52 -
5.	4.7 U disk upgrade boot interface- 49 -4.8 Decoupling function- 50 -4.9 Running mode of bracket- 50 -4.10Use method of 3 - class conveyor for ton baling scale- 51 -Serial communication- 52 -5.1 printing method- 52 -5.1.1 Auto print- 52 -
5.	4.7 U disk upgrade boot interface       - 49 -         4.8 Decoupling function       - 50 -         4.9 Running mode of bracket       - 50 -         4.10Use method of 3 - class conveyor for ton baling scale       - 51 -         Serial communication       - 52 -         5.1 printing method       - 52 -         5.1.1 Auto print       - 52 -         5.1.2 total cumulative printing       - 52 -
5.	4.7 U disk upgrade boot interface- 49 -4.8 Decoupling function- 50 -4.9 Running mode of bracket- 50 -4.10Use method of 3 - class conveyor for ton baling scale- 51 -Serial communication- 52 -5.1 printing method- 52 -5.1.1 Auto print- 52 -5.1.2 total cumulative printing- 52 -5.1.3 formula cumulative printing- 53 -
5.	4.7 U disk upgrade boot interface- 49 -4.8 Decoupling function- 50 -4.9 Running mode of bracket- 50 -4.10Use method of 3 - class conveyor for ton baling scale- 51 -Serial communication- 52 -5.1 printing method- 52 -5.1.1 Auto print- 52 -5.1.2 total cumulative printing- 52 -5.1.3 formula cumulative printing- 53 -5.1.4 user cumulative printing- 53 -
5.	4.7 U disk upgrade boot interface- 49 -4.8 Decoupling function- 50 -4.9 Running mode of bracket- 50 -4.10Use method of 3 - class conveyor for ton baling scale- 51 -Serial communication- 52 -5.1 printing method- 52 -5.1.1 Auto print- 52 -5.1.2 total cumulative printing- 52 -5.1.3 formula cumulative printing- 53 -



	5.3.1 abnormal function code and code 54 -
	5.3.2 MODBUS transmission mode 55 -
	5.3.3 MODBUS address allocation 56 -
6.	Automatic bagging process 106 -
	6.1 with a single scale hopper 106 -
	6.2 No metering hopper 107 -
	6.3 Tons of package scale 108 -
	6.4 Valve port scale 108 -
	6.5 PLC mode 110 -
	6.6 double scale interlocking bagging mode 110 -
7.	Motor working process 112 -
	7.1 Motor feeding section 112 -
	7.1.1 Stepper motor feeding 112 -
	7.1.2 Ordinary motor feeding 112 -
	7.2 motor pocket part 113 -
	7.2.1 stepper motor clip loose bag 113 -
	7.2.2 Motor double limit clip loose bag 113 -
	7.2.3 Motor single limit clip loose bag 113 -
	7.3 Motor discharge part 114 -
	7.3.1 Stepper motor discharge 114 -
	7.3.2 Motor single limit discharge 114 -
	7.3.3 Motor double limit discharge 114 -
	7.3.4 Motor one-way rotary discharge 115 -
	7.3.5 Motor debug function 115 -
8.	Peripheral workflow 116 -
	8.1 patting bag 116 -
	8.2 coding 116 -
	8.3 conveyor 116 -
	8.4 printing 117 -
	8.5 sewing machine 117 -
	8.6 Unloading rapping 117 -
	8.7 Loading / discharge timeout judgment 117 -
	8.8 auxiliary pulse 117 -
9.	Meter size (mm) 119 -

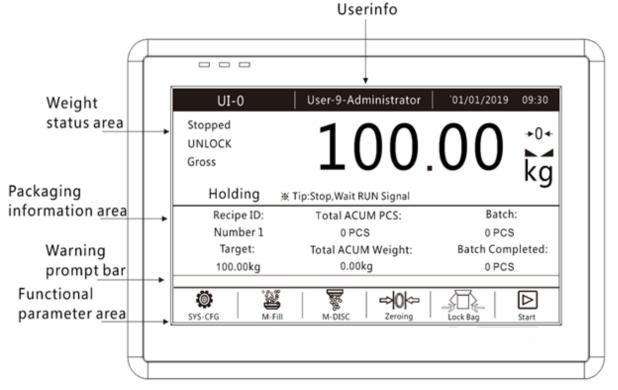
# 1. Outline

**GM9907-L2** bagging controller is a new weighing control controller specially developed for the single scale incremental method automatic quantitative packing scale. The controller English displays 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. It can be widely used in feed, chemical, grain and other industries that require quantitative packaging equipment.

#### 1.1 features and features

- > Full English display interface, make the operation more intuitive and easy
- > There are five modes of bagging application, hopper, non hopper, Ton scale, servo motor, PLC.
- > 28-digital input and output control (12 in / 16 out), input and output port positions can be customized.
- > ON/OFFing 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 bagging of different range materials
- > USB interface facilitates import and export of various parameters
- > Feed control function, convenient control connection between bagging scale and front feeding equipment
- Feed speed adaptive function
- IO User Logic programming
- > Auto free fall correction function
- Multiple digital filtering
- Batch setting function
- > Bag patting function, suitable for bagging 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 single port communication function, it is convenient to communicate with the host computer

#### 1.2 front panel description

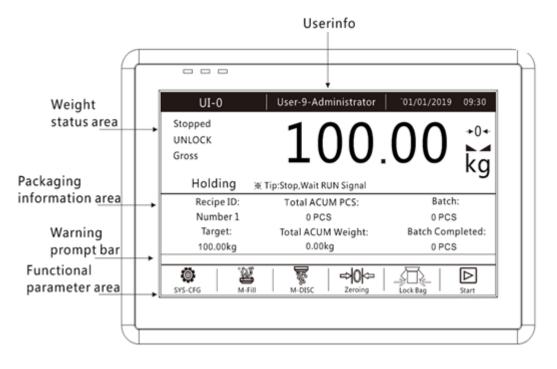


#### Interface ON/OFF description:: click on the top left, popup option"Interface-0-Working Interface", "Interface-1-Debug Interface", press interface. Interface 0 Description (Working Interface):

- 1: Weight status: Including weight value display, weight unit display, status display.
- 2: User Info: Display the current login user ID, system time (click to modify).
- 3: Packaging information area: Display the currently selected scale packaging parameters and cumulative information.

 $(\ensuremath{\operatorname{Parameters}}\xspace$  such as recipe number can be modified by clicking) .

- 4: Warning prompt bar: Prompt when Controller abnormal work.
- 5: Functional parameter area: Controller menu parameters query Settings and the corresponding operation keys



## 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.

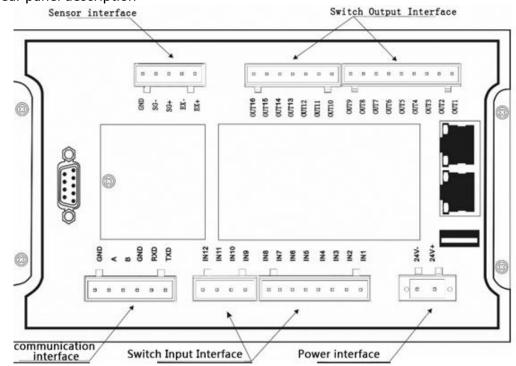
2: Shortcuts: increased 8 customizable shortcuts, setting.

#### Indicator light description

Left 1: power light;

Left 2: Serial port 1-RS232 communication indicator light, the indicator light flashes during communication Left 3: Serial port 2-RS232 communication indicator light, the indicator light flashes during communication

#### 1.3 rear panel description



#### **1.4 Technical Specifications**

#### **1.4.1 General Specifications**

Power supply: DC24V Power filter: included Operating temperature: -10 ~ 40 °C Maximum humidity: 90% RH non-condensing Power consumption: about 15 W Dimensions: 199 mm × 133 mm × 46.7 mm

#### 1.4.2 Analog part

Load cell power supply: DC 5 V 125 mA (MAX) Input impedance:  $10M\Omega$ Zero adjustment range: 0. 00 2 ~ 15 mV (when loal cell 3mV / V) Input sensitivity: 0.02uV / dInput range: 0. 0 2 ~ 15mVConversion: S igma- D elta A/D conversion speed: 120, 240, 480, 960 times / sec Non-linear: 0.01% FS Gain drift:  $10PPM / ^{\circ}C$ The maximum display accuracy: 1 / 100,000

#### 1.4.3 digital part

Display: 7 inch resistive touch screen Negative Number Display: "-" Overload Indication: "Over Full Scale / Loadcell Input Under." Decimal point position: 5 optional

# 2. Installation

#### 2.1 General principles

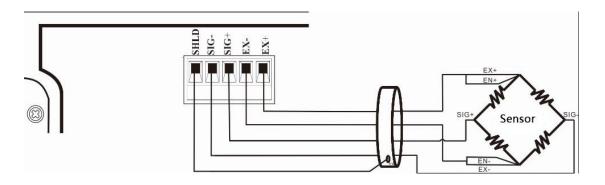
1) Make appropriate installation holes on the control box, (size: 180 (+1) mm ×114 (+1) mm)

2) Install GM9907-L2 into a control box.

**3**) Remove the fixing plates on both sides of GM9907-L2, fix it with the fixing plates and lock them with M3\*10 screws.

#### 2.2 Load Cell connection

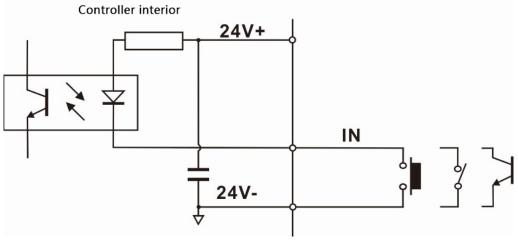
**GM9907-L2** bagging controller can be connected to a resistive strain bridge load cell. When using a six-wire load cells, you must bridge the SN+ with EX+ and bridge the SN- with EX-



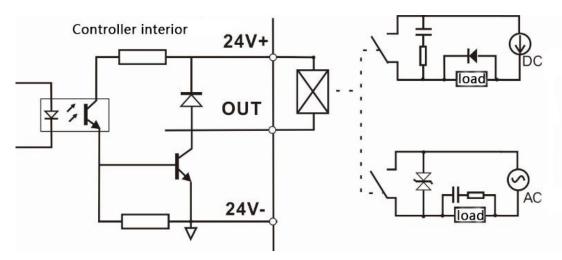
EX+: Excitation+ EX-: Excitation- SN+: Sense+ SN-: Sense- SIG+: Signal+ SIG-: Signal-

#### 2.3 I/O Module Port connection

**GM9907-L2** bagging controller controls 28 lines I/O (12 input and 16 output). It uses optoelectronic isolation technology to transfer data. The I/O signal input is low level effective, and the output is open-collector mode. The driving current can reach 500mA and the full load current is up to 3A, and Terminal connection is shown as below:



Input port diagram

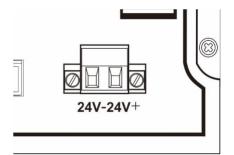


I/O Module output connection diagram

GM 9907-L2 I/O signals definitions refer Section 3.7.

#### 2.4 power supply connection

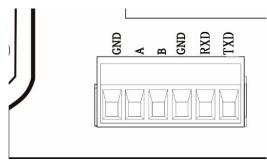
GM9907-L2 bagging controller use 24V DC power supply. The connection is as shown below:



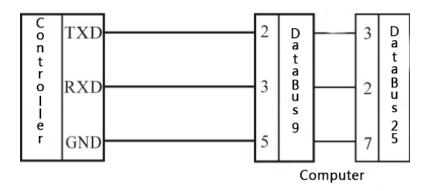
Power terminal diagram 24V+ connect DC+, 24V-connect DC-. Note: this product use 24V DC power supply, use 220V AC power supply will permanently damage the controller and cause danger

2.5 serial port connection

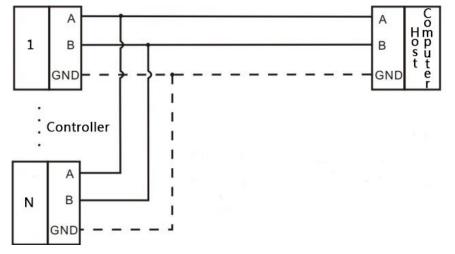
GM9907-L2 provides two serial ports as shown in the figure below. One is RS - 232 mode (terminal port TXD, RXD, GND); the other is RS - 485, (terminal port A, B, GND). Serial port support: MODBUS protocol, continuous mode and print format.



Controller and computer connection diagram



Controller and computer connection diagram (RS-232 mode)



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

#### **%GND** is the signal ground of RS485. In the case of severe interference, low resistance wire should be applied

to connect the signal ground to make the ground potential of each node equal and improve the communication quality.

#### 2.6 touch screen calibration

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:

GM9907-L2 power on, long press any point on the touch screen at the same time, system turn to touch screen calibration interface. Long press cursor position on touch screen, cursor position calibrate finish, after the interface displays the coordinates of this point, enter to next calibrate automatically. Follow cursor position changes long press accordingly, calibrate finish, and interface show 5 calibration point coordinates, enter to main interface automatically. If enter the calibration interface of the touch screen by mistake, press the "cancel" button in the lower right corner to exit the interface.

# 3. menu

Administrator and system administrator can press M button to enter menu for checking or revise parameters.

Administrator	0:Target	1:Time Parameter	2:Over/Un Parameter	I
1.Recipe	3:Auto Free Fall Correction Parameter	4:Jog Flow Parameter	5:With Ho	pper
2.Sys&Com	6:No Hopper		8:Ton Scale	
3.Peripherals	Parameter	7:PLC Parameter	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			F	
10.System Info.				Return

As figure showed above, the left side is parameter list; the right side is brief description and parameter information.

- Click the [set] button to enter the current parameter item to view and set the ownership parameter information.
- Press [Return] to exit the current interface and return to the previous interface.

menu	Parameter item	parameter list	Parameter Description
	Recipe (recipe parameter)	0:Target	Set the bagging weight value related parameters
		1 : time parameter	Set the delay time related parameters of the filling process
		2 : Over/Under parameter	Set parameters such as under weight, mode, and filling
		3: Auto Free Fall Correction Parameter	Set the difference correction method, correction range and other related parameters
System dish		4: Jop Flow parameter	Set slow jog ON/OFF, time and other related parameters
single		5: With Hopper parameter	Set the relevant parameters of with hopper scale structure
		6: No hopper parameter	Set the relevant parameters of no hopper scale structure
		7: PLC parameter	Set the state of the PLC parameters
		8: ton scale parameter	Set the relevant parameters of the ton bagging scale structure
		9: Valve scale	Set the relevant parameters of the valve scale

	parameter	structure
	0: weight parameter	Set the Stable, Zeroing , and other weight parameters
	1: Filter parameter	Set Filter ON/OFF, filter level
	2: Function	Set parameters such as adaptive and Result
~ ~ ~ ~	parameter	Checking Mode
Sys&com(System and	3: Weigher structure	Select Weigher Structure, Filling Mode
communication)	4: Serial port(232)	Set serial port (RS 232)related parameters
	5: Serial port( <b>485</b> )	Set serial port (RS485)related parameters
	6: Ethernet Interface	Set Ethernet related parameters
	7. Host mode	communicate with Communication ID to send orders
	0: Patting parameter	Set the patting mode, times and other parameters
	1: coding parameter	Set the relevant parameters of the coding mechanism
Peripheral parameters	2: Conveyor parameter	Set the relevant parameters of the conveyor
	3: Print parameter	Set parameters for automatic printing function
	4 : sewing	Set sewing machine, cutter and other related
	parameter	parameters
	5: Discharge Patting parameter	Set parameters such as discharge patting time and times
	6: Filling/Discharge	Set the parameters related to the
	Overtime	Filling/Discharge overtime
	7: Auxiliary pulse parameter	Set the relevant parameters of the auxiliary pulse
	0: Motor parameter	Set Recipe ID, Motor Cfg ID
	1: Filling Parameter	Set filling related parameters
Motor (parameter)	2: Bag Clutch parameter	Set the relevant parameters of the bag clutch
	3: Discharge parameter	Set discharge related parameters
	4: Motor debugging	Debug feeding stepping motor pulse number
Calibtation	0: weighing parameter	Set parameters such as unit, decimal point, range, etc.
	1: weight calibration	Performs calibration operation for calibrating the controller weight value
	2: Material calibration	Perform calibration operation to calibrate controller weight value

Total ACUM And	0: total ACUM and batch	View, clear, print the total ACUM information
Batch (accumulation and	1:Recipe ACUM (1-10)	View, clear,print recipe(1-10) bagging ACUM information
batch)	2: Recipe ACUM (11-20)	View, clear,print recipe(11-20) bagging ACUM information
	3: User ACUM	View ACUM parameters for different users
	0: Input Define	Define the meaning of the controller input port
	1 : Output Define	Define the meaning of the controller output port
I/O Module	2: Input Test	Test whether each input port is connected properly.
	3 : Output Test	Test whether each output port is connected properly.
	0: User Logic-1	User logic 1 function self-define
	1: User Logic-2	User logic 2 function self-define
	2: User Logic-3	User logic 3 function self-define
User Logic	3: User Logic-4	User logic 4 function self-define
	4: User Logic- 5	User logic 5 function self-define
	5: User Logic- 6	User logic 6 function self-define
	0: User List	View or ON/OFF users
User Manage	1: User Edit	Edit user permissions, passwords, etc.
	2: Auto Login	Set up auto login users
	0: System Version	View software version and set system time
	1: Password management	Password management of various parameters (calibration, ACUM Clear Password MUST ON
	2: Reset / Backup	Restore various parameters to factory settings ar data backup
system Info	3: USB Data Export	Out operation from the controller working, recipe, peripherals, motor, calibration, I/O Module, serial port parameters
	4: USB Data Import	Import working, recipes, peripherals, motors, calibration, I/O Module, serial port parameters to the controller
	5: Shortcut Setting	Define debug interface shortcuts
	6: Other setting	Select language, adjust screen brightness, set screen saver

#### 3.1 Recipe parameters

Administrator	OrTexact	1:Time Parameter	2:Over/Under
	0:Target	1:Time Parameter	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

Enter **(**M**)** When move to recipe parameter interface:

\*Click the [set] button to enter the current parameter item to view and set the ownership parameter information.

\*click [Esc] Exit key, to exit the current interface and return to the previous screen.

**※**"Recipe ID" is set under "Target".

Recipe					
parameter	parameter	Description			
item					
	Used to set the bagging weight value related parameters				
	1 Recipe ID	Select the recipe ID. Initial value: 1; Range: 1~20.			
	2. Target	Quantify the target value.			
	<b>3.</b> Coarse Flow	In the quantification process, if the weighing value $\geq$ the target value -			
	Remains	Coarse Flow Remains, Coarse Fill is turned off.			
	4. Medium Flow	In the quantification process, if the weighing value $\geq$ the target value -			
	Remains	Medium Flow Remains, Medium Fill is turned off.			
	5.Free Fall	In the quantification process, if the weighing value $\geq$ the target value –			
	5.Free Fall	Free Fall, Fine fill is turned off.			
	6. Near Zero	In the quantification process, if the weighing value ≤Near Zero Band,			
	Band	Discharge Delay Timer is started.			
Target	7. Adaptive	The higher the level, the faster the feeding speed, the lower the accuracy.			
Tunger	Level	Initial value: 3; Range: $1 \sim 5$ .			
	8. Adaptive ON/OFF	Adaptive function, automatically adjust the coarse, medium and fine			
		speed of the controller in the running process after the ON/OFF is turned			
		on.			
		Optional ON/OFF, off, double speed, triple speed.			
		Initial value: off.			
		(note:			
		1. All Remains must be zero before normal use.			
		2. If Auto Free Fall Correction and the adaptive function are opened at			
		the same time, the Auto Free Fall Correction will be closed forcibly.			
		3. When the first balance is self-adaptive, the balance body must be stable			
		and the current weight is zero.)			

	Used to set the de	lay timer related parameters of the filling process
	1.Filling Start Delay	In with hopper mode, when the quantification process starts, after the delay time, the controller will stable and zeroing (if it does not meet the Zero Interval condition, it will not stable and not zeroing), and then start the filling process; In no hopper mode, after lock bag is finished, after the delay time, the controller is to be stable and tare. Initial value: <b>0.5</b> ; Range: <b>0.0~99.9</b> . (Unit: <b>s</b> )
	<b>2.</b> COMP.Inhibit Timer(Co-F)	When the quantification process starts, during this time, in order to avoid overshoot, no weight judgment is made, coarse filling is always valid. Initial value: <b>0.9</b> ; Range: <b>0.0~99.9</b> . (Unit: <b>s</b> )
	<b>3. COMP.</b> Inhibit Timer(Me-F)	After coarse filling is finished, during this time, in order to avoid overshoot no weight judgment is made, medium filling is always valid. Initial value: <b>0.9</b> ; Range: <b>0.0~99.9</b> . (Unit: <b>s</b> )
Time	<b>4. COMP.</b> Inhibit Timer(Fi-F)	After medium filling is finished, during this time, in order to avoid overshoot no weight judgment is made, fine filling is always valid. Initial value: <b>0.9</b> ; Range: <b>0.0~99.9</b> . (Unit: <b>s</b> )
parameter	<b>5.</b> Result Waiting Timer	Result Checking Mode chose "Delay Timer", after the fine filling is turned off (or the Over/Under is turned on, the Over/Under alarm is finished), quantification process is started, and the holding time is passed, and the quantification process is finished, enter to next process. Initial value: <b>0.5</b> ; Range: <b>0.0~ 99.9</b> . (Unit: <b>s</b> )
	6. Bag Locked Delay Timer	After the clutch bag signal is given, after the delay, controller judges that the bagging operation is completed. Initial value: <b>0.5</b> ; Range: <b>0.0~99.9</b> . (Unit: <b>s</b> )
	7. Unlock Bag Pre-Delay Timer	After with hopper mode discharge is completed, the unlock bag signal is output after the delay time; After the no hopper mode setting (patting bag) is completed, the unlock bag signal is output after this delay. Initial value: <b>0.5</b> ; Range: <b>0.0~99.9</b> . (Unit: <b>s</b> )
	8.Discharge Delay Timer	During the discharge process, when the weight value of the weighing hopper is less than the Near Zero Band, the delay is started, when delay time is finished, discharge signal is closed. Initial value: <b>0.5</b> ; Range: <b>0.0~99.9</b> . (Unit: <b>s</b> )
	Used to set param	eters related to Over/Under weight, mode, Compensation, etc.
	1.OVER/UND ER ON/OFF	"On / Off" is optional. When this parameter is set to "On", the quantification process judges the Over/Under.
Over/Under Parameter	2. OVER/UND ER Pause	"On / Off" is optional. When it is set to "On", when the quantitative process is over or under, controller pauses and waits for the user to process. I/O Module enter Emergency Stop, returns to the stop state, and clear alarm; or I/O Module enter clear alarm, continue quantitative process.
	3. OVER/UND ER Alarm Timer	Without manually clear alarm, Over/Under alarm close alarm time. Initial value: <b>1.0;</b> range: <b>0.0 to 9. 9.9.</b> (units )
	<b>4.</b> OVER Limit Value	In the quantification process, if the weighing value $\geq$ the target value + Over value, it is judged as Over.

		Initial value: <b>0</b> .
		In the quantification process, if the weighing value $\leq$ target value – Under
	<b>5.</b> Under Limit	value, it is judged as Under.
	Value	Initial value: <b>0</b> .
		Set the Compensation ON/OFF
	6. Compensatio	On: Slowly add the feed according to the number of feeds. Off: Do not
	n ON/OFF	replenish when there is a shortfall.
		When the quantitative process is judged to be inferior, the feed is slowly
1	7. Compensatio	added according to this value.
	n Times	Initial value: 1; range 1~99.
		When feeding the output, the effective time is added slowly during an on-
	8. Flow-ON	off cycle.
	Times	Initial value : 0.5 ; range: 0.0 to 9 9 .9 . (units )
	9. Flow-OFF	When feeding an output, a pass off the cycle time has no effect on <b>chronic</b> .
	times	Initial value : 0.5 ; range: 0.0 to 9 9 .9 . (units )
	Used to set releva	ant parameters for automatic adjustment ofdrop difference
		The drop value is the weight value that has not fallen into the measuring
	1. Auto Free	hopper after the slow feeding signal is turned off. The drop correction is
	Fall Correction	corrected according to the actual blanking value as required.
	ON/OFF	(Note: If the drop correction and adaptive functions are turned on at the
	010011	same time, the drop correction function is invalid)
Auto Free		The meter averages the difference of the set number of times as the basis
Fall	<b>2.</b> Reference	for the drop correction.
Correction	Samples PCS	Initial value: 1 ; Range: 1 to 99.
ON/OFF		When the current drop value exceeds the set range, the drop will not be
	<b>3.</b> Correction Effective Range	counted in the arithmetic mean range.
		Initial value: <b>2</b> . <b>0</b> ; Range: <b>0.0 to 9.9 (</b> % of target value ).
	4. Correction Percentage	The magnitude of each drop correction.
		Three ranges are available in 100%, 50%, and25%.
		Initial value: <b>50 %</b> .
	Used to get menu	al slow feeding related parameters
	1. Jog Flow ON/OFF	"On / Off" is optional. When set to "On", the meter is slowly added and
		jogged. Initial value: off.
Les Elses		
Jog Flow	2. Jog Flow-	When the jog output is slowly added, the effective time is added slowly
Parameter	ON Timer	during an on-off cycle.
		Initial value : 0.5 ; range: 0.0 to 9.9 . (unit s)
	<b>3.</b> Jop Flow-on Timer	When the jog output is slowly added, the inactive period is slowly added
		during an on-off period.
	TT 1, , ,1	Initial value : 0.5 ; range: 0.0 to 9.9 . (unit s)
<b>TT</b> 71.1	Used to set the re	elevant parameters of the bucket scale mode
With	1. Filling	When there is a hopper scale structure, the loose bag is unloaded several
Hopper	Combination Times	times. If it is $0$ , the meter discharges directly after the feeding is completed
Parameter		without judging whether the pocket is valid.
		Initial value : 1 ; Range: 0 to 99 .
	<b>T</b> T 1	neters related to the bucketless scale mode

No Hopper		Effective interlocking mode without fighting, A scale B when the front end				
Parameter		of the conveyorscale after the rear end of the conveyor, and the double scale				
Parameter						
	1 Mart Table	bulk bags is not the same model as discharge bags. If the addition is				
	1. Next Lock					
	Bag Start Delay	bags <b>A</b> , <b>B</b> scale case again a bag clip, to wait after the completion of the				
	Time	addition A discharge bags, and after starting the				
		conveyor, after which time delay before scale BStart feeding.				
		Initial value: <b>4.0</b> ; range: <b>0.0 to 99.9</b> . (unit <b>s</b> )				
		(Note: This parameter is only valid when the bag is not at the same time.)				
		mode related parameters				
	1. PLC-	When the weighing value > target value + excess value, the out-of-tolerance				
	OverLimit	output is valid				
	Value	Initial value: 0.00 ; range: 0.00~100.00 .				
	<b>2.</b> PLC-	When the weighing value < target value - under-difference, the under-output				
PLC	UnderLimit	is valid				
parameter	Value	Initial value: 0.00 ; range: 0.00~100.00 .				
purumeter	<b>3.</b> PLC-	When the weighing value > upper limit value, the upper limit output is valid				
	UpperLimit	Initial value: 0.00 ; range: 0.00~100.00.				
	Value					
	<b>4.</b> PLC-	When the weighing value is < lower limit, the lower limit output is valid.				
	LowerLimit					
	Value	Initial value: 0.00 ; range: 0.00~100.00 .				
	Used to set the relevant parameters of the ton package scale mode					
	1. Delay time	The bag delay time until the bag is completed.				
	of hanging bag	Initial value : 0.5 ; range: 0.0 to 99.9 . (unit s)				
	2. Hanger control mode	Optional auto rise, auto drop; auto rise, manual drop; manual rise, auto drop;				
		manual rise, manual drop.				
		Default: auto rise, auto drop				
	<b>3. D</b> elay Before Hanger Rise	This delay is executed after the rising signal is sent.				
		Initial value: 5.0; range: 0.0 to 99.9. (unit s)				
		Note: only valid at Air Drive-unlimit space mode.				
		This delay is initiated after the quantitative delay has expired.				
		Initial value: 5.0; range: 0.0 to 99.9. (unit s)				
Ton package		Note: only valid at Air Drive-unlimit mode.				
scale Para		The maximum waiting time for the controller hanger in place .				
meter	5.Hanger Rise	Initial value: 5.0; range: 0.0 to 99.9. (unit s)				
	Overtime	Note: only valid at Motor-Dual-Limit/Air Drive-Dual-Limit mode.				
		The maximum waiting time for the controller hanger to drop.				
	<b>6.</b> Hanger Drop Overtime	Initial value: 5.0; range: 0.0 to 99.9. (unit s)				
		Note: only valid at Motor-Dual-Limit/Air Drive-Dual-Limit mode.				
	7. Fan Rotating	Blower blow output time .				
	Time	Initial value : 0.5 ; range: 0.0 to 99.9 . (unit s)				
		Filling finish, bag output invalid time, continue output is valid.				
	8. Bag Reset	Initial value: 0.0; range: 0.0 to 99.9. (unit s )				
	delay	Note: Paremeter setting is not 0, bag output invalid, starts bag reset delay,				
		continue ouput is valid.(controller run the first scale need manual hang bag				

		signal once) when parameter set to 0, before controller filling everytime,
		needs hang bag signal.
		Before rise delay air blow: air blow output valid, hanger rise output is valid.
	9. Air Blow	After rise delay air blow, after hanger output continue hanger rise delay time
	mode	starts air blow.
		Initial value:Before Rise delay starts blowing
		Close the return valve after feeding: after closing the fine feed, the return
	10 D (	valve output is invalid.
	10. Return	Close return valve after bag loosening: return valve output is invalid after
	valve mode	bag loosening.
		Initial value: Close the return valve after feeding.
	11. Decoupled	ON: When is on. OFF: When is off.
	up I/O	Initial value:OFF
	12. Delay	
	before	When is on, after decoup, need to delay the time hanger to rise.
	decoupling	Initial value:0.0s Range: 0.0~99.9 (unit s)
	accouping	When the rise I/O is on and the rise support output needs to last for this
	13. Decoupling	time after the rise is executed
	rise time	
		Initial value:0.0s Range: 0.0~99.9 (unit s)
	14. Decoupling	When the rise I/O is on, and after the decoupling rise is over, it is
	rise pause time	necessary to wait for the time before descending.
		Initial value:0.0s Range: 0.0~99.9 (unit s)
	15. Uncoupled	ON: Uncoupled alarm I/O is ON. OFF: Uncoupled alarm I/O is OFF
	alarm I/O	Initial value: OFF
	16. Decoupling alarm conveyor reversal time	The uncoupled alarm I/O is on. When the uncoupled alarm is complete,
		the conveyor will perform the reversal immediately for the duration.
		Initial value:0.0s Range: 0.0~99.9 (unit s) (Set to 0: means the conveyor
		does not reverse)
	17. Weight	The uncoupled alarm I/O is on. If the current weight is greater than the
	value of	value of the decoupling alarm during the period of decoupling ascending,
	decoupling	controller will output the decoupling alarm signal.
	alarm	Initial value:0, range: 0~Maximum range
	Used to set the va	alve scale mode related parameters
		The delay time before the bag is started at the same time when the loose bag
	1.Delay Before	starts to start.
	Lifting Bag	Initial value : 0.5 ; range: 0.0 to 99.9 . (unit s)
	2. Lifting Bag	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.
Valve Scale	Timer	Initial value : 0.5 ; range: 0.0 to 99.9 . (unit s)
Paameter	<u> </u>	When the loose bag start delay starts, the delay time before pushing the bag
	<b>3.</b> Delay Before	is started at the same time.
	Pusing Bag	Initial value : <b>0.5</b> ; range: <b>0.0 to 99.9</b> . (unit <b>s</b> )
	<b>4.</b> Pushing Bag Timer	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 99.9 . (unit s)
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#### 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 [Return] to exit the current interface and return to the previous interface.

Sys&Com	parameter	Description
	1. Stable 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: <b>2</b> ; Range: <b>0 to 99 (d)</b> .
	2. Stable Timer	First value: 0.3; range: 0.1 to 99.
	3. Zero Range	The range can be cleared . Initial value: <b>50</b> ; Range: <b>1 to 99 (</b> % of full scale) .
Weight Parameter	4. Zero Track Range	The weight value is within this range and the meter is automatically cleared. When it is <b>0</b> , zero tracking is not performed. Initial value: <b>0</b> ; range: <b>0 to 9 (d)</b> .
	<b>5.</b> Zero Track Timer	First Value: 20; range: 0.1-9 9.9. (unit s)
	6. A/D Sampling Rate	<ul> <li>A/D sampling rate.</li> <li>120 times / sec, 240 times / sec, 480 times / sec, 960 times / sec.</li> <li>Initial value: 240 times / sec.</li> </ul>
	1. Digital Filter	Filter strength rating in the stopped state. Initial value: 7; range $0 \sim 9$ .
	<b>2.</b> Advance Filter ON/OFF	On/off optional, secondary filtering based on digital filtering. Initial value: off.
Filter	<b>3.</b> Dynamic Filter	During the bagging process, whether to perform the filter operation ON/OFF and set "On", the following three parameters are valid. Initial value: on.
Parameter	<b>4.</b> Filling Filter Level	Filter parameters during feeding: 9: The filtering effect is the strongest. Initial value: 4; Range: 0 to 9.
	5.Waiting Process Filter	Filter parameters during the setting process: <b>9</b> : The filtering effect is the strongest. Initial value: <b>7</b> ; Range: <b>0 to 9</b> .
	<b>6.</b> Dischange Process Filter	Filter parameters during unloading: 9: The filtering effect is the strongest. Initial value: 1; Range: 0 to 9.
Function Parameter	1. Power-Up Zero	On / off is optional. When it is "on", the controller 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

	<b>2.</b> Auto Zeor Interval	Clear the number of times after completing the bagging process. When entering the first bagging process in the running state, the meter is not cleared. Initial value: <b>0</b> ; Range: <b>0 to 99</b> . (Note: This parameter is valid only for the metering hopper bagging mode.)
	<b>3.</b> Running Stable Timeout	Initial value: <b>0.0</b> ; range: <b>0.0</b> ~ <b>99.9</b> .(unit <b>s</b> )
	<b>4.</b> Result Checking Mode	<ul><li>Stable value: After the slow feed is turned off, the weight is stabilized and the set value process is completed.</li><li>Delay setting: After the slow feeding is turned off, the fixed value is completed after the fixed value is maintained.</li><li>Initial value: a stable value.</li></ul>
	<b>5.</b> Add to Total When Manual Discharge	On/Off is optional; set to "On", the manual unloading weight value is included in the accumulated value; initial value: off.
	6. Result Holding	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. Manual Unlock bag I/O	I/O optional, when set to on, running, need manal to control unlock bag. Initial value: off.
	8.Hang bag running control ON/OFF	I/O optional, when set to on, when in ton bag mode, after start, allow hang bag, not allow hang bag off. Initial value: off.
	9. Reverse logic I/O of hanging bag	I/O optional, when set to on, when in ton bag mode, when hang bag output is valid, I/O module is invalid, when hang bag output is invalid, I/O module output is valid. Initial value: off.
	10. Tare weight detection I/O	I/O optional, when set to on, when in ton bag mode, When running, it will return to the stop state without feeding to the fixed value. When it starts again, it does not need to remove the tare to start feeding directly. Note: This function will only record tare if the current weight is greater than 0. Initial value: off.
	1. Valve Scale	There are hopper bagging / no hopper/ PLC / big bag / valve port bagging selection available. Initial value: There is a hopper bagging.
Weigher Structure	2.Working Mode	Optional single scale , interlock A, interlock B. Initial value : single scale .
Suuciule	<b>3.</b> Packing mode	The net weight bagging mode first removes the tare weight at the beginning of the quantification and performs the quantitative bagging process with the net weight value.(effective in non-fighting mode) Gross weight bagging / net weight bagging is optional.

		Initial value: net weight bagging .
	4. Hanger	Available in Air Drive-unlimit/ electric drive-dual limit/ Air Drive- dual
	Movement Type	limit
		Initial value : Air Drive- unlimit
	5. Filling Mode	Optional separate feeding and combined feeding.
	<u>-</u>	Initial value : combined feeding.
		In the hopperless 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.
	<b>6.</b> Dual Scale Unlock Bag Mode	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 . The completion 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.
	<b>1.</b> Communication ID	Initial value: 1; 1 ~ 9 9 optional.
	2.Communication	Initial value: Modbus-RTU . Modbus-RTU/ Print / Continuous
	Mode	Mode / MD-R(compatible with 01. version) isoptional.
Serial port 485	<b>3.</b> Baudrate	Initial value: <b>38400</b> ; <b>9600/19200/38400/57600/115200</b> optional.
105	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. Dword Format	Modbus communication display mode:
		Initial value: <b>AB-CD</b> (high word first);
		AB-CD (high word first) / CD-AB (low word first) optional.
	<b>1.</b> Communication ID	Initial value: 1 ; 1 ~ 9 9 optional.
Serial port	2.Communication	Initial value: Modbus-RTU .
232	Mode	Modbus-RTU / Print / Continuous Mode /
		MD-R (compatible with version 01.) isoptional.
	3. Baudrate	Initial value: <b>38400</b> ;

		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.
	<b>5.</b> Dword Format	<ul><li>Modbus communication display mode:</li><li>Initial value: AB-CD (high word first);</li><li>AB-CD (high word first) / CD-AB (low word first) optional.</li></ul>
	1.Communication Mode	M odbus-TCP/IP , address table viewsection 5.3.3
Ethernet Interface	2. Dword Format	<ul><li>Modbus communication display mode:</li><li>Initial value: AB-CD (high word first);</li><li>AB-CD (high word first) / CD-AB (low word first) optional.</li></ul>
	<b>3.</b> Server Port	Initial value : 1; 1 ~ 65535 optional .
	4. IP-address	Initial value : $0; 0 \sim 255$ optional.
	5. MAC-address	BC.66.41.9X.XX.XX
	1. Communication ID	Initial value : 1; $1 \sim 99$ optional .
	2. Initial address	Initial value: 1;1~9999 is optional, starting at 0X0001 by default.
Host Mode	3. data length	Initial value: single word; Single/double word is optional.
	4. Setting paremeter	Initial value : 0; 0 ~ 999999 optional .

\* note:

1. The communication parameters of serial port 2 are fixed in the host mode. Only when the mode of communication is modbus-rtu can the host mode be used.

2. In host mode, the initial address is fixed as 1.

3. Successful data writing will return successful data sending; Failure to write data returns failure to send; A send timeout is returned when there is no return for a long time.

4. In the host mode, modifying the high and low bytes of serial port ii will change the storage order of the data sent to the slave machine. The high and low bytes correspond to each other, and the data length can be used when it is double word.

#### 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.

Peripherals	parameter	Description
Patting Parameter	1. Patting Mode	Bag mode selection; Initial value: Do not pat bag. Optional: With hopper mode: the bag is not available after the bag / set value; No jogging mode: Sign bag / bags after setting Sign / addition in the film bag /bags jog plus values were correctly predicted; T packet mode: Sign bag / bags after setting Sign / addition in the film

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

	<ul> <li>bag /bags jog plus values were correctly predicted;</li> <li>Port mode: Sign bag / bags after setting Sign / addition in the film bag / bags jog plus values were correctly predicted;</li> <li>PLC mode: Sign bag / bags after setting Sign / addition in the film bag / bags jog plus values were correctly predicted;</li> <li>It is effective in the no-bucket, big bag, and valve-mouth scale mode.</li> </ul>
2. Start-Up Weight	When the bag is fed in the feeding mode, the current weight must be greater than or equal to the starting weight of the bag before the bag is started. Initial value: <b>0</b> ; Range: <b>0</b> ~ Maximum range.
<b>3.</b> Patting Times(Filling)	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 is forcibly ended in the feeding, regardless of whether the bag in the feeding is completed. (Do not take the bag during the feeding after entering the small value) Initial value: <b>0</b> ; Range: <b>0~99</b> .
<b>4.</b> Patting Times(Waiting	After the fixed value, the number of times the bag is set, the number of times the bag is taken. Initial value: <b>4</b> ; Range: <b>0~99</b> .
<b>5.</b> Patting Start Delay Timer	After the b ag is started, the bag output is valid after this delay time. Initial value : <b>0.5</b> ; Range : <b>0.0~99.9</b> . (units)
<b>6.</b> Patting ON Timer	During the on-off cycle of the bag, the bag output valid time. Initial value: <b>0.5</b> ; Range: <b>0.0~99.9</b> . (unit <b>s</b> )
<b>7.</b> Patting OFF Timer	In the on-off cycle of the bag, the bag output invalid time. Initial value: <b>0.5</b> ; Range : <b>0.0~99.9</b> . (unit <b>s</b> )
<b>8.</b> Extra ON Timer	Generally used in the anchor bag function. 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: <b>0.0</b> . Range : <b>0.0~99.9</b> . (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 ).
9. Pat bag start up weight 1	Under without hopper,ton bag, valve scale mode are valid, choose Feeding medium pat bag mode, current weight must >=pat bag start up weight, starts pat bag. Initial value: <b>0</b> ; Range: <b>0</b> ~ Maximum range
10. Feeding medium pat bag	Set parameters while feeding pat bag times. Set to 0, do not pat bag.Note: When the feeding process enters into fine feeding, end the

	time 1	pat bag while feeding, no matter whether the pat bag in feeding is completed or not.(After entering the fine feeding, do not process the feeding in pat bag) Initial value: <b>0</b> ; Range: <b>0~99</b>
	11. Feeding medium pat bag time 2	Set parameters while feeding pat bag times. Set to 0, do not pat bag.Note: When the feeding process enters into fine feeding, end the pat bag while feeding, no matter whether the pat bag in feeding is completed or not.(After entering the fine feeding, do not process the feeding in pat bag) Initial value: <b>0</b> ; Range: <b>0~99</b>
	1. Coding Device ON/OFF	On/off optional; set to "on", the meter has a code output function; Initial value : off.
	<b>2.</b> Coding Start Delay Timer	The pocket is completed, and the output is valid after the delay; Initial value: <b>0.5</b> ; Range: <b>0.0~99.9</b> . (units)
Code parameter	<b>3.</b> Coding Duration Timer	The effective time of coding; Initial value: <b>0.5</b> ; Range: <b>0.0~99.9</b> . (units)
	4.Not Allow Fill/Discharge When Coding	On/Off is optional; set to "On", it is not allowed to start feeding (no bucket mode) output or unloading (with bucket mode) output during coding . Initial value : off.
	1. Conveyor ON/OFF	On/off optional; set to "on", the meter has a conveyor output function; Initial value : off. The no-bucket mode is valid.
Conveyor parameter	<b>2.</b> Conveyor Start Delay Timer	After the delay of the loose bag, the meter judges that the conveyor is started. Initial value: <b>0.5</b> ; range: <b>0~99.9</b> . (unit <b>s</b> )
	<b>3.</b> Conveyor Running Timer	Conveyor runtime setting. Initial value: <b>4.0</b> ; range: <b>0~99.9</b> . (unit <b>s</b> )
	1. Auto Print	On/Off is optional; when "On" is selected, the package result will be printed out automatically every time the package is completed (the serial port should be selected as "Print"). Initial value: off.
Print parameters	<b>2.</b> Printer Format	Initial value: 24 columns of printing ; 24 columns of printing / 32 columns of printing.
	<b>3.</b> Printing Language	Initial value: Chinese ; Chinese / English optional.
	<b>4.</b> Printing Line Nos.	The number of lines after the print is completed. Initial value: <b>3</b> ; <b>0~9</b> optional.
Sewing	<b>1.</b> Sewing Start Delay Timer	After the sewing machine start ON/OFF is activated, the sewing machine delay time is started . Initial value: <b>0.5</b> . Range: <b>0.0~99.9</b> . (unit <b>s</b> )
Parameter	<b>2. S</b> ewing ON Timer	After the delay time has elapsed, the sewing machine output is started and the sewing machine output time is continuously output . Initial value: <b>4.0</b> . Range: <b>0.0~99.9</b> . (unit <b>s</b> )

	3.Cutter Delay Timer	After the sewing machine output time is over, the thread trimmer output is started and the cutter output time is continued. Initial value: <b>0.5</b> . Range: <b>0.0~99.9</b> . (unit <b>s</b> )
	<b>4.</b> Cutter ON Timer	After the start up of the cutter, start the output of the cutter and continue the output time of the cutter. Initial value: 0.5.Range: 0.0~99.9.(unit s)
	<b>5.</b> Sewing Stop Delay	After the work is completed and cutting machine, sewing machine continues to work, sewing machine stop delay time after up to stop. Initial value: <b>0.5</b> . Range: <b>0.0~99.9</b> . (unit <b>s</b> )
	6. Sewing Debounce Timer	Prevent the photoelectric jitter of the sewing machine from starting and cause the sewing machine to work abnormally. During the debounce time, the sewing machine photoelectric jitter, but the sewing machine output is still valid at this time. Initial value: $0.3$ . Range: $0.0 \sim 99.9$ . (unit s)
	1. Discharge Patting ON/OFF	Initial value : <b>0</b> ; range <b>0~1</b> . ( <b>0 :</b> open; <b>1</b> : off)
Discharge	<b>2.</b> Discharge ON Timer	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)
Patting Parameter	<b>3.</b> Discharge Patting ON Timer	Initial value : <b>0.5</b> ; range <b>0.0~9.9</b> . (unit <b>s</b> ).
	<b>4.</b> Discharge Patting OFF Timer	Initial value : <b>0.5</b> ; range <b>0.0~9.9</b> . (unit <b>s</b> )
	<b>5.</b> Discharge Patting Times	Initial value : <b>10</b> ; range <b>0</b> ~ <b>99</b> .
	1. Overtime Checking ON/OFF	Add and discharge timeout judgment ON/OFF. After the opening , the loading and unloading timeout judgment is performed in the running state . Initial value : off .
Filling/Dischage	<b>2</b> Coarse Flow Overtime	In the running state, after the fast output exceeds the time, the output timeout alarm is issued and the machine stops. Initial value : <b>5.0</b> ; range <b>0.0~99.9</b> . (units )
Overtime	<b>3.</b> Medium Flow Overtime	In the running state, after the output is over this time, the output timeout alarm is issued and the machine stops. Initial value : <b>5.0</b> ; range <b>0.0~99.9</b> . (units )
	<b>4.</b> Manual Fine Overtime	In the running state, after the slow output exceeds the time, the output timeout alarm is issued and the machine stops. Initial value : <b>5.0</b> ; range : <b>0.0~99.9</b> .(unit <b>s</b> )

	<b>5.</b> Discharge Overtime	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)
	<b>1.</b> Auxiliary pulse 1 mode	0: Auxiliary pulse; 1: Level mode Initial value:0; Auxiliary pulse
	<b>2.</b> Auxiliary Pulse 1 Execute Total Timer	Auxiliary Pulse 1 Execute Total Timer. If 0, keeps running. Initial value : <b>0</b> ; range : <b>0.0~999.9</b> .(unit <b>s</b> )
	<b>3.</b> Auxiliary Pulse 1 On Timer	Initial value : <b>10.0</b> ; range : <b>0.0~999.9</b> .(unit <b>s</b> )
	<b>4.</b> Auxiliary Pulse 1 Off Timer	Initial value : 10.0 ; range : 0.0~999.9 .(unit s )
	<b>5.</b> Auxiliary pulse 2 mode	0: Auxiliary pulse; 1: Level mode Initial value:0; Auxiliary pulse
Auxiliary pulse	<b>6.</b> Auxiliary Pulse 2 Execute Total Timer	Auxiliary Pulse 2 Execute Total Timer. If 0, keeps running. Initial value : 0 ; range : 0.0~999.9 .(unit s )
parameter	7. Auxiliary Pulse 2 On Timer	Initial value : <b>10.0</b> ; range : <b>0.0~999.9</b> .(unit <b>s</b> )
	8. Auxiliary Pulse 2 Off Timer	Initial value : <b>10.0</b> ; range : <b>0.0~999.9</b> .(unit <b>s</b> )
	<b>9.</b> Auxiliary pulse 3 mode	0: Auxiliary pulse; 1: Level mode Initial value:0; Auxiliary pulse
	<b>10.</b> Auxiliary Pulse 3 Execute Total Timer	Auxiliary Pulse 3 Execute Total Timer. If 0, keeps running. Initial value : 0 ; range : 0.0~999.9 .(unit s )
	<b>11.</b> Auxiliary Pulse 3 On Timer	Initial value : <b>10.0</b> ; range : <b>0.0~999.9</b> .(unit <b>s</b> )
	<b>12.</b> Auxiliary Pulse 3 Off Timer	Initial value : <b>10.0</b> ; range : <b>0.0~999.9</b> .(unit <b>s</b> )
	<b>13.</b> Auxiliary pulse 4 mode	0: Auxiliary pulse; 1: Level mode Initial value:0; Auxiliary pulse
	<b>14.</b> Auxiliary Pulse 4 Execute Total Timer	Auxiliary Pulse 4 Execute Total Timer. If 0, keeps running. Initial value : 0 ; range : 0.0~999.9 .(unit s )

<b>15.</b> Auxiliary Pulse 4 On Timer	Initial value : <b>10.0</b> ; range : <b>0.0~999.9</b> .(unit <b>s</b> )
<b>16.</b> Auxiliary Pulse 4 Off Timer	Initial value : <b>10.0</b> ; range : <b>0.0~999.9</b> .(unit <b>s</b> )

## 3.4 motor parameters

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 [Return] to exit the current interface and return to the p
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Motor	parameter	Description
Motor	1. Repice ID	The recipe currently in use. Initial value: 1; Range: 1~20.
parameters	<b>2.</b> Current Filler Motor Cfg ID	The feed motor group number corresponding to the current recipe. Initial value: $0$ , range $0 \sim 4$ .
	1. Filling mode	<ul><li>Initial value: pneumatic feeding;</li><li>Optional:</li><li><b>0</b> , pneumatic mode; 1 , stepper motor feeding; 2 , ordinary motor mode.</li></ul>
Filling parameter	<b>2.</b> Filler Gate Close Overtime	Initial value: <b>4.0</b> ; range: <b>0.0~99.9</b> .
	<b>3.</b> Filling Gate Limit Signal Type	<ul> <li>Initial value: 0;</li> <li>Type optional:</li> <li>0: The signal is in place when it is valid;</li> <li>1: When the signal is invalid, it is in place.</li> </ul>
	<b>4.</b> Filler Motor Cfg ID	Initial value: <b>0</b> ; Range: <b>0~4</b> Feeding motor group number setting.
	5. Filler Motor Frequency	Initial value: <b>12000</b> ; range: <b>1~50000</b> .
	<b>6.</b> Steps For Filler Open to Fi-F	Initial value: 1800 ; Range: 1~60000 .
	7. Steps For Filler Open to Me-F	Initial value: <b>4300</b> ; range: <b>1~60000</b> .
	8. Steps For Filler Open to	Initial value: <b>7750</b> ; range: <b>1~60000</b> .

	Co-F	
		Feeding door opening motor rotation direction signal state
	<b>9.</b> Filler Motor DR	<ul> <li>Initial value: when the signal is invalid, it is the direction of opening the door;</li> <li>Optional:</li> <li>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.</li> <li>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.</li> </ul>
	<b>10.</b> Filler	Feed motor starting frequency
	Motor Start	Initial value: <b>2000</b> ; Range: $0 \sim 50000$ .
	Frequency 11. Filler Motor ACC Time	(Note: this value cannot be greater than the feeding motor frequency) Feed motor acceleration time (in <b>ms</b> ) Initial value: <b>200</b> ; range: <b>0~9999</b> .
	<b>12.</b> Filler Motor DEC Time	Feed motor deceleration time (in <b>ms</b> ) Initial value: <b>50</b> ; range: <b>0~9999</b> .
	<b>13.</b> Co-F Gate Open Time	The time it takes for the loading door to open to the quick-add (fast-add) position. Initial value: <b>0.8 0</b> ; Range: <b>0~99 . 99 .</b> (unit <b>s</b> )
	<b>14.</b> Me-F Gate Open Time	The time it takes for the feed door to open to the middle (plus) position. Initial value: <b>0.4 0</b> ; Range: <b>0</b> . ~99.99 .(unit s )
	<b>15.</b> Fi-F Gate Open Time	The time it takes for the feed door to open to the slow (slow plus) position. Initial value: <b>0.2 0</b> ; Range: <b>0~99.99</b> . (units )
	1, Lock Mode	<ul> <li>Initial value: 0, pneumatic clamp loose bag;</li> <li>Optional:</li> <li>0, pneumatic clip loose bag;</li> <li>1, stepper motor clip loose bag;</li> <li>2, motor double limit clip loose bag;</li> <li>3, motor single limit clip loose bag.</li> </ul>
Bag Discharge Parameter	2, Bag Release Overtime	Initial value: <b>3.0</b> ; range: <b>0.0~99.9</b> . (unit s)
	<b>3</b> , Bag Lock Overtime	Initial value: <b>3.0</b> ; range: <b>0.0~99.9</b> . (unit s)
	<b>4</b> , Discharge Limit Signal Type	<ul> <li>Initial value: 0;</li> <li>Optional:</li> <li>0: The signal is in place when it is valid;</li> <li>1: When the signal is invalid, it is in place .</li> </ul>
	5, Discharge	Initial value: <b>30000</b> ; range: <b>1~50000</b> .

	Lock	
	Frequency	
	6, Discharge	
	Release	Initial value: 20000 ; range: 1~50000 .
	Frequency	
	7, Steps to	Initial value: <b>12000</b> ; range: <b>1~60000</b> .
	Lock Bag	
		Initial value: <b>0</b> ;
	8, Discharge	Optional:
	Motor DR	<b>0</b> : the entrainment direction when the signal is invalid ;
		1 : Entrainment direction when the signal is valid .
	9, Discharge	Initial value: 2000.
	Motor Start	(Note: this value cannot be greater than the pocket frequency)
	Frequency	(Note: this value cannot be greater than the poeket nequency)
	10, Discharge	
	Motor ACC	Initial value: 200 ; range: 0.0~99.99 . (unit m s )
	Time	
	11, Dicharge	
	Motor DEC	Initial value: 50 ; Range: 0.0~99.99 . (unit m s )
	Time	
	12, Bag	
	Release time	Initial value: 0. 5 ; range: 0.0~99.99 . (units )
		Initial value: <b>0</b> pneumatic discharge;
		Optional:
	1, Discharge	<b>0</b> : pneumatic mode ;
	I, Discharge Mode	1 : Stepping motor unloading;
	Widde	2 : motor single limit discharge;
		<b>3</b> : motor double limit discharge;
		<b>4</b> : The motor rotates in one direction.
	${\bf 2}$ , DISC Gate	
	Close	Initial value : <b>3.0</b> ; range: <b>0.0~99.9</b> . (units )
Discharge	Overtime	
e	${\bf 3}$ , DISC Gate	
parameter	Open	Initial value : <b>3.0</b> ; range: <b>0.0~99.9</b> . (units)
	Overtime	
	4, DISC Gate	Initial value: <b>0</b> ;
	4, DISC Gate Limit Signal	Optional:
		<b>0</b> : The signal is in place when it is valid;
	Туре	1 : When the signal is invalid, it is in place.
	5,Realtime	On/off is optional; when "On" is selected, the limit signal is detected in
	Detecting	real time; when "Off", the limit signal is detected only when the feed is
	When	started.
	Discharge	Initial value: off.

	6, DISC		
	Motor Open	Initial value : <b>30000</b> ; range: <b>1~50000</b> .	
	Frequency		
	7, DISC		
	Motor Close	Initial value : 20000 ; range: 1~500 00 .	
	Frequency		
	8, Discharge	Initial value : 12000 ; range: 1~60000 .	
	Steps		
		Initial value: <b>0</b> ;	
	9 ,DISC Motor DR	Optional: <b>0</b> the deep energing direction when the signal is invalid to	
	MOIOI DK	<ul><li>0 : the door opening direction when the signal is invalid ;</li><li>1: valid signal to the door opening direction.</li></ul>	
	10, DISC	1. vand signal to the door opening direction.	
	Motor Start	Initial value: 2000 ; range: 0~50000 .	
	Frequency	(Note: this value cannot be greater than the discharge frequency)	
	11 ,DISC		
	Motor ACC	Initial value: 200 ; range: 0.0~99.99 . (in ms)	
	Time		
	12, DISC		
	Motor DEC	C Initial value: 50 : range: 0.0~99 . 99 . (in ms)	
	Time ration		
	time		
	13, DISC		
	Gate Open	n Initial value : 1.00 ; range : 0.00~99.99 .(unit s )	
	Timer		
	Current		
	formula	Initial value : 0; range:0~4	
	feeding group		
	number		
Motor debugging	fine flow	Initial value : 1800; range:1~60000	
Motor debugging	puise		
	medium flow	Initial value : 4300; range:1~60000	
	pulse		
	coarse flow	Initial value : 7750; range:1~60000	
	pulse	1111111 value : 7750, lunge 1 00000	

#### 3.5 calibration

The calibration scale is the calibration of the controller. When the **GM9907** bagging 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 controller. To prevent personnel from mis operation, the Technician and the administrator are required to log in to calibrate the controller (select the identity login in the [User Login] option).

The calibration scale parameter of the national standard symmetrical heavy controller 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:

٠

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

Calibration scale parameter	parameter	Description			
	1 unit	Initial value: kg ; g/kg/t/lb isavailable.			
Weighing	<b>2.</b> Decimal point	. Initial value: 000	. Initial value: 000; 0 to 0.0000 five kinds of options.		
parameter	3. Resolution	Initial value: 1; 1/	2/5/10/20/50 six optional .		
1	4. Full Scale	Initial value: <b>100.00</b> ; The range is less than or equal to the minimum division × <b>10 0000</b> can be set .			
Zero Calibration	Weight	Display current weighing platform weight value	In this interface, after clearing the weighing platform (scale bucket) is stable, press the [empty scale calibration] button to calibrate the current state to		
	Loadcell voltage	Display current sensor output voltage value	zero.		
	Weight	Display current weight value	In this interface, load the weight on the weighingplatform(weighingbucket). After		
Weight Calibration	Weight Voltage	Display load weight output voltage value stabilization,press [ GainCalibration ] to pop up th dialog box, enter the weight value of the weight, are complete the calibration of the weight value of the controller.			
		aterial calibration is to use the calibration method when o use the calibration method of weight on site. The steps			
	Coarse Flow	Step 1: empty	the measuring hopper and click "empty scale		
	Manual	calibration". This s	tep is zero calibration, requirements: metering bucket		
	Discharge	empty, weighing body stability.			
Material calibration	Material calibration	Step 2: click " Manual Flow ".At this time, the feeding door will be opened and some materials will be added to the metering hopper. Click "manual feeding" again and the feeding door will be closed.(note: if the "manual feeding time" in the weighing parameter is not set to 0, the feeding door will be automatically closed after the manual feeding time is up.) Step 3: click "Manual Discharge ".When the discharge door is opened, the background records the current relative millivolts.The discharge material is weighed and recorded electronically. Step 4: click "material calibration", input the weighing data, and click			

Press [Return] to exit the current interface and return to the previous interface.		Press [Return] to exit the current interface and return to the p	revious interface.
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#### 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 [Return] 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"

٠ In total cumulative batch to batch interface provided [] set the number of batches, such as when the number of batches completed set, playing the controller 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 I/O Module

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

The input and output factory definition contents are as follows (output 1 - 16 corresponds to the controller  $OUT1 \sim OUT16$  interface, input 1 - 12 corresponds to the controller  $IN1 \sim 12$  interface).

Output		Input quantity	
Output port -1	O1 Running	Input port - <b>1</b>	I1 Start
Output port -2	O2 Stoped	Input port - 2	I2 Emergency Stop
Output port -3	O3 Coarse Flow	Input port - <b>3</b>	I3 Stop
Output port -4	O4 Medium Flow	Input port - <b>4</b>	I5 Zeroing
Output port -5	<b>O5</b> Fine Flow	Input port - 5	I6 Clear Alarm
Output port -6	O6 Bag Lock	Input port - 6	<b>I8</b> Clear Total ACUM
Output port -7	<b>O7</b> Result Waiting	Input port - 7	I7 Bag Lock/Unlock Request
Output port -8	O8 Ready	Input port - <b>8</b>	<b>I9</b> Manual Discharge

There are hopper scales default definition:

Output port -9	<b>O9</b> Discharge	Input port - 9	I10 Manual Fine Flow	
Output port -10	<b>O10</b> (-NZ-)	Input port - 10	I11 Manual Coarse Flow	
Output port -11	O11 Pag Bag	Input port - 11	I13 Change Recipe	
Output port -12	O13 FILL	Input port - 12	I12 Empty Material	
Output port -13	O14 EMPT	Note: In interlock mode.		
Output port -14	O15 Alarm	Input port -12 is the interlock input.		
Output port -15	O17 Batch	Output port - 16 is the dual scale interlock output.		
	Complete			
Output port -16	O16Over/Under			

Without hopper scale default definition:

Output		Input quantity		
Output port -1	O1 Running	Input port - 1	I1 Start	
Output port -2	O2 Stopped	Input port - 2	I2 Emergency Stop	
Output port -3	O3 Coarse Flow	Input port - <b>3</b>	I3 Stop	
Output port -4	O4 Medium Flow	Input port - 4	I4 Pause	
Output port -5	<b>O5</b> Fine Flow	Input port - 5	15 Zeroing	
Output port -6	O6 Bag Lock	Input port - 6	I6 Clear Alarm	
Output port -7	O7 Result Waiting	Input port - 7	I7 BagLock/Unlock Request	
Output port -8	<b>O10</b> (-NZ-)	Input port - <b>8</b>	<b>I8</b> Clear Total ACUM	
Output port -9	O11 Pat Bag	Input port - 9	I10, Manual Fine Flow	
Output port -10	O15 Alarm	Input port - 10	I11 Manual Coarse Flow	
Output port -11	O13 FILL	Input port - 11	I13 Change Recipe	
Output port -12	O27 Bag Release	Input port - 12	I12 Empty Material	
Output port -13	O14 EMPT	Note: In interlock mode.		
Output port -14	O17 Batch	Input port -12 is chang	ged to interlock input .	
	Complete	Output port -12 is changed to missing material.		
Output port -15	O16 Over/Under	Output port- 13 is changed to batch completion.		
		Output port- 14 is changed to the sewing machine		
	O11 Souring	output.		
Output port -16	O44 Sewing	Output port <b>-15 is</b> changed to conveyor output.		
	Output	Output port-16 is changed to dual scale interlock		
		output.		

#### P LC mode default definition:

Output		Input quantity	
Output port -1	O3 Coarse Flow	Input port - 1	<b>I5</b> Zeroing
Output port -2	O4 Medium Flow	Input port - 2	I6 Clear Alarm
Output port -3	<b>O5</b> Fine Flow	Input port - 3	None(No definition)
Output port -4	<b>O38</b> Over (PLC)	Input port - <b>4</b>	None
Output port -5	O39 Under(PLC)	Input port - <b>5</b>	None
Output port -6	<b>O49</b> upper limite(PLC)	Input port - 6	None
Output port -7	O41Lower limite(PLC)	Input port - 7	None
Output port -8	None	Input port - 8	None
Output port -9	None	Input port - 9	None
Output port -10	None	Input port - 10	None

Output port -11	None	Input port - 11	None
Output port -12	None	Input port - 12	None
Output port -13	None	None:No Defini	tion
Output port -14	None		
Output port -15	None		
Output port -16	None		

Ton scales default definition:

Output		Input quantity	
Output port -1	O1 Running	Input port - 1	I1 Start
Output port -2	O2 Stoped	Input port - 2	I2 Emergency Stop
Output port -3	O3 Coarse Flow	Input port - <b>3</b>	I3 Stop
Output port -4	O4 Medium Flow	Input port - 4	I4 Pause
Output port -5	<b>O5</b> Fine Flow	Input port - 5	I5 Zeroing
Output port -6	O6 Bag Lock	Input port - 6	I6 Clear Alarm
Output port -7	O31 Hanging Bag	Input port - 7	I8 Clear Total ACUM
Output port -8	O3 Hanger Up	Input port - 8	I7 Bag Lock/Unlock Request
Output port -9	<b>O7</b> Result Waiting	Input port - 9	I32 Hanging Request
Output port -10	<b>O10</b> (-NZ-)	Input port - 10	I3 Manual Hanger Up/Down
Output port -11	O33 Return Valve	Input port - 11	<b>I19</b> Manual Fine Flow
Output port -12	O32 AirBlow	Input port - 12	I20 Manual Coarse Flow
Output port -13	O15 Alarm	None:No Definition	on
Output port -14	O17 Batch Complete		
Output port -15	None		
Output port -16	None		

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	I2 Emergency Stop
Output port -3	O3 Coarse Flow	Input port - 3	I3 Stop
Output port -4	O4 Medium Flow	Input port - 4	I4 Pause
Output port -5	<b>O5</b> Fine Flow	Input port - 5	15 Zeroing
Output port -6	O6 Bag Lock	Input port - 6	I6 Clear Alarm
Output port -7	<b>O</b> 7 Result Waiting	Input port - 7	<b>I8</b> Clear Total ACUM
Output port -8	O17 Batch Completed	Input port - 8	I7 Bag Lock/Unlock Request
Output port -9	<b>O10</b> (-NZ-)	Input port - 9	I10 Manual Fine Flow
Output port -10	O11 Pag Bag	Input port - 10	I11 Manual Coarse Flow
Output port -11	O13 FILL	Input port - 11	I13 Change Recipe
Output port -12	O15 Alarm	Input port - 12	I12 None
Output port -13	O16 Over/Under		
Output port -14	O30 Pushing Bag Signal		
Output port -15	<b>O29</b> Lifting Bag Signal		
Output port -16	O42 Conveyor Start		

#### 3.7.1 Output, input port definition

The output port and input port contents can be defined according to the actual application. Under the ON/OFF

interface:

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

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

Output				
Code	content	Description		
<b>O</b> 0	None	If the port number is defined as $0$ , this output port is undefined.		
01	Running	When the meter is in the running state, the output port signal is valid.		
02	Stopper	When the meter is in the stop state, the output port signal is valid.		
03	Coarse Flow	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.		
<b>O</b> 4	Medium Flow	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	Fine Flow	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	Bag Lock	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	Result Waiting	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	Ready	After the setting is completed, the output port signal is valid.		
09	Discharge	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.		
O10	(-NZ-)	When the current weight of the scale is less than the set near zero value, the output port signal is valid.		
011	Pat Bag	Used to control the bag making machine. A pulse signal with a controlled pulse width and number of times.		
012	Cutting Material	This output is valid during the feed and is not valid during the non-feed period .		
013	FILL	The feeding mechanism for controlling the front end of the bagging 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	EMPT	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	Alarm	When the meter has an out-of-tolerance, batch number, etc. alarm, the output port signal is valid.		

016	Over/Under	When the tolerance or undershoot is exceeded, the output signal is		
	Batch complete	defined as valid. When the set number of batches is completed, the output port signal is		
017		valid.		
018	Interlock Output	Used in the double scale mode, connected to the ON/OFF "Double scale interlock input" of another meter.		
019	Filling O/P PU	When the feeding mode is set to stepper motor mode to control the feeding door ON/OFF: 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.		
O20	Filling O/P DR	When the feeding mode is set to stepper motor mode to control the feeding door ON/OFF: 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	Bag Clutch O/P PU	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	Bag Discharge O/P DR	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.		
023	DISC O/P PU	When the unloading mode is set to stepper motor mode to control unloading: this signal is used as a pulse signal 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	DISC O/P DR	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	Filler Open	When the feeding mode is set to the normal motor mode to control the feeding door ON/OFF: 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.		

<b></b>				
O26	Filler Close	When the feeding mode is set to the normal motor mode to control the feeding door ON/OFF: 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	Bag Release When the bag mode is set to the ordinary motor control c is used to control the loose bag. When the signal is valid driven to perform the loose bag action. When the signal loose bag action stops.			
O28	DISC Gate Close	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	Lifting Bag Signal	It is used to control the bag-making mechanism, and this signal effectively realizes the bag-lifting action .		
O30	Pushing 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	AirBlow	For controlling the operation of the blowing means, at the end of the metering bracket upward, the signal is valid.		
033	Return Valve	Return valve for controlling the run, at the end of blowing, the signal is valid.		
O34	Hanger 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 ar bag have been completed before feeding. This signal output is valid after the loose bag is completed. Unt lower limit input is valid.			
035	Hanger Down (motor )(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	Convery A (this parameter is reserved)	Electric mode, for controlling the operation of the belt <b>A</b> , the loose bags, the hook after the song, the signal is valid.		
037	Convery <b>B</b> (this parameter is reserved)	Electric mode, for controlling operation of the belt <b>B</b> , the belt <b>A</b> is stopped, the signal is valid.		
038	Over(PLC)	This signal is valid when it is out of tolerance (PLC).		
039	Under(PLC)	This signal is valid when there is a short circuit (PLC).		
O40	Upper Limite (PLC)	When the weighing value > upper limit value, the upper limit output is valid .		
041	Lower Limite (PLC)	When the weighing value < lower limit, the lower limit output is valid .		
042	Conveyor Start	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.		
	1	- " **		

		The code signal is output when the pocket signal output is valid and the		
O43	Coding	code delay is over.		
<b>O</b> 44	Sewing Output	When the sewing machine input is valid, the sewing machine output is valid.		
045	Cutter Output	After the sewing machine output time is over, the output is valid, and the effective time is the tangential machine output time .		
O46	Auxiliary PU Output <b>1</b>	After the auxiliary pulse <b>input</b> effective, the output pulse signal (valid for the auxiliary pulse <b>an</b> effective time, dead time of the auxiliary pulse <b>a</b> dead time), and outputs the total time to stop the output (the total time is set to <b>0</b> , it has been by Pulse output).		
O47	Auxiliary PUAfter the auxiliary pulse 2 input is active, the output pulse signal for the auxiliary pulse 2 effective time, dead time of the aux pulse 2dead time), and outputs the total time to stop the output (the time is set to 0, it has been by Pulse output).			
O48	Auxiliary PU Output 3After the auxiliary pulse 3 input is valid, the pulse signal is output effective time is theauxiliary pulse 3 valid time, the invalid ti the auxiliary pulse 3 invalid time ), and after the output execution time is reached, the output is stopped (the total execution time is set then the button is pressed. Pulse output).			
O49	Auxiliary PU Output <b>4</b>	After the auxiliary pulse 4 input is valid, the pulse signal is output (the effective time is the auxiliary 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	DISC Patting Output     The output of the discharge rapping function.			
051	User Logic Output 1	Auxiliary logic 1 output signal.		
052	User Logic Output 2	Auxiliary logic output signal <b>2</b> .		
053	User Logic Output 3	The output signal of the auxiliary logic output <b>3</b> .		
054	User Logic Output 4	The output signal of the auxiliary logic output <b>4</b> .		
055	User Logic Output 5	The output signal of the auxiliary logic output <b>5</b> .		
056	User Logic Output 6	The output signal of the auxiliary logic output <b>6</b> .		
057	Multi-function support control patting bag (ton bag scale mode)	For one - piece control bracket and patting bag. When the patting bag is not executed: this I/O Module is the same as the uplink state of the measuring bracket. When the function of patting bag is on: this I/O Module is opposite to the state of patting bag.(valid patting bag support is invalid, invalid patting bag support is valid).		
O58	Conveyor 2 output	Control conveyor 2 output is valid		
059	Conveyor 3 output	Control conveyor 3 output is valid		
O60	Conveyor 1 reverse output			
Input qua	Input quantity			
10	None	If the port number is defined as $0$ , this input port is undefined.		
I1	Start	The signal valid meter will enter the running state. This input is a pulse input signal.		

		The signal valid meter will return to the stop state. This input is a pulse
12	Emergency Stop	input signal.
13	Stop	The signal valid meter will return to the stop state after completing the
10		current bagging process. This input is a pulse input signal.
14	D	The signal valid meter will suspend work, retain the current
I4	Pause	state, and resume working after receiving the start signal. This input is a
		pulse input signal. The signal valid meter will clear the weight. This input is a pulse input
15	Zeroing	signal.
T/		Used to clear the alarm output of the meter. This input is a pulse input
16	Clear Alarm	signal.
		It is used to control the action of the pocket mechanism. This input is
I7	Bag Lock/Unlock	effective for one pocket output, and the effective pocket output is invalid
		again (ie: loose bag).
18	Clear Total ACUM	Clearing the total accumulated weight and number of times will also
		clear the recipe accumulation and user accumulation .
19	Manual Discharge	Used to manually remove material from the measuring hopper. The input is effective once, the discharge output is valid, and the effective
D	Wanuar Discharge	discharge output is invalid again.
- 10		The input is valid once and the output is valid, and the effective slow
I10	Manual Fine Flow	input is invalid again.
I11	Manual Coarse Flow	Pulse type signal. Function in the stop state, used to manually turn the
	Walluar Coarse 1 low	meter on and off. Effective once, it is effectively turned off again.
I12		Pulse type signal. Acting in the stop state, used to empty the storage
	Empty Material	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) This input is valid once, the recipe number is changed to the next target
I13	Change Recipe	whose value is not zero, and the recipe number with the target value of
	ennige receipe	zero is skipped.
114		Used to connect the upper level of the hopper, this input should be level
I14	Supplement Full	input.
		Used to connect the lower level of the hopper, this input should be level
I1 5	Supplement Empty	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.
I16	Start/E-stop (level	The signal is valid and the controller enters the running state. If it is invalid, it returns to the stop state. This input is a level signal
	Signal)	invalid, it returns to the stop state. This input is a level signal. The signal valid controller enters the running state, and if it is invalid, it
I17	Start/Stop (level	returns to the stop state after completing the current bagging
	Signal)	process. This input is a level signal.
	M D: 1 (1 1	Used to manually remove material from the measuring hopper. The input
I18	M Discharge (level	effective discharge output is valid, and the input invalid discharge output
	Signal)	is invalid.
I19	M Fine Flow (level	The signal is effectively slow and the signal output is valid. The signal
	Signal)	is invalid and the slow signal output is invalid.

120	M Coarse Flow( level	The signal is valid and the signal output is valid. The signal is invalid and	
120	Signal)	the signal output is invalid.	
121	Bag Locked (level Signal)	<ul> <li>If this input is defined, it effectively indicates that the pocket is in placand vice versa.</li> <li>No fighting mode: the folder bag has state, the controller must detected "bag-in place" input active material began to increase, the process of adding material, detecting whether the signal is notvalid. The input should be a level input.</li> </ul>	
122	DISC Gate Opended ( level Signal)	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 the controller detects that the signal is valid, it considers that the discharge door has been opened.	
123	Filler Gate Closed (level Signal)	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 the controller detects that the signal is valid, it considers that the feeding door has been closed.	
I24	DISC Gate Closed ( level Signal)	This signal acts as a limit input signal for the discharge door to close the door. When the controller detects that the signal is valid, it considers that the discharge door has been closed.	
125	Bag Released (level Signal)	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 Input	When the digital input is valid, the effective output of the sewing machine is started.	
I27	Sewing Emergency	When the digital input is valid, the sewing machine stops outputting.	
I28	Auxiliary PU Input 1	Auxiliary PU Input 1 self defined trigger input signal	
I29	Auxiliary PU Input 2	Auxiliary PU Input 2 self defined trigger input signal	
130	Auxiliary PU Input 3	Auxiliary PU Input 3 self defined trigger input signal	
I31	Auxiliary PU Input 4	Auxiliary PU Input 4 self defined trigger input signal	
I32	Hanger Request	Used to control the movement of the bag mechanism.	
133	Hanger Up Done	The upper limiter for connecting the metering bracket, this input should be a pulse input .	
I34	Hanger Down Done	The lower limiter used to connect the metering bracket, which should be a pulse input .	
135	Hanger Lower Limitation	The lower limiter for connecting the metering bracket, this input should be a pulse input .	
136	Convery <b>A</b> Stop (this parameter is reserved)	In the electric mode , the stop detection sensor for connecting the belt A , which should be a pulse input .	
137	Convery A Stop (this parameter is reserved)	In the electric mode, the stop detection sensor for connecting the belt <b>B</b> should be a pulse input.	

Manual Hanger	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.	
Up/Dowm	In the running state, it is the start signal of the motion of the bracket.	
T 4 1 1 T 4	Used in the double scale mode, the ON/OFF "double scale interlock	
Interlock Input	output" used to connect another meter.	
Auxiliary logic input 1	Auxiliary PU Input 1 self defined trigger input signal.	
Auxiliary logic input 2	Auxiliary PU Input 2 self defined trigger input signal.	
Auxiliary logic input 3	Auxiliary PU Input 3 self defined trigger input signal.	
Auxiliary logic input 4	Auxiliary PU Input 4 self defined trigger input signal.	
Auxiliary logic input 5	Auxiliary PU Input 5 self defined trigger input signal.	
Auxiliary logic input 6	Auxiliary PU Input 6 self defined trigger input signal.	
Feeding allow input	If the Feeding allow input is defined in the I/O Module, judge whether the Feeding allow input is valid before the feeding process. If it is valid, start the feeding process; if not, wait.	
Discharge allow input Discharge allow input is defined in the I/O Module, it is necessary to judge wheth discharge allow input is valid after setting the value. If it is val discharge process will start; if it is not, it will wait.		
Conveyor 1 is turning forward	At stop status, manual control conveyor starts turning forward(When the emergency stop signal is valid, the forward turning output of conveyor 1 is invalid)	
Conveyor 1 is turningControl conveyor starts reversal (When the emergency stop sig valid, the reversal turning output of conveyor 1 is invalid)		
Conveyor 2 limit input	Conveyor 2 Limit Signal Type	
Conveyor 3 limit input	t Conveyor 3 Limit Signal Type	
	Up/Dowm Interlock Input Auxiliary logic input 1 Auxiliary logic input 2 Auxiliary logic input 3 Auxiliary logic input 4 Auxiliary logic input 5 Auxiliary logic input 6 Feeding allow input Discharge allow input Conveyor 1 is turning forward Conveyor 1 is turning reversal Conveyor 2 limit input	

## 3.7.2 IO test

The user can check whether the controller 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 ON/OFFing 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 ON/OFFing power supply input, wiring, etc.

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 Material		
			Return	

7.I/O Module				
Output Test				
OUT 1	OUT 2	OUT 3	-	UT 4
Running	Stopped	Coarse Flow		im Flow
OUT 5	OUT 6	OUT 7		JT 8
Fine Flow	Bag Lock	Result Waiting		ady
OUT 9	OUT10	OUT11		JT12
Discharge	(-NZ-)	Pat Bag		ILL
OUT13	OUT14	OUT15		T16
EMPT	Alarm	Batch Complete		Under
				Return

## 3.8 User Logic

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 [Return] to exit the current interface and return to the previous interface.

Auxiliary logic(1~ 6) Programming parameter	parameter	Description	
	CLOSE		
	Delay ON		
	Delay Off		
1.Logic Type (1-6)	Delay ON And OFF	The type of auxiliary logic programming signal is selected	
1.Logie Type (1 0)	OFF-ON,Edge	based on the logic to be implemented.	
	Trigger		
	ON-OFF,Edge		
	Trigger		
	Self-Define Trigger (default)	After setting any of the $1 \sim 12$ channels as the trigger signal, the input port will be fixed as the trigger signal.	
<b>2.</b> User Logic ( <b>1-6</b> )	IN port 1~12	Set any of the $1 \sim 12$ input ports as the trigger signal, then the input can be either the trigger signal or the function signal of the input port.	
Trigger Define	Output definition	After the trigger signal is set to "an internal function signal", the trigger output is performed according to the function signal.	
	>= or $<=$ weight	After the trigger condition is set, the current weight	

	Value Trigger	value is compared with the set weight threshold, and theoutput is triggered when the condition is met.
<b>3.</b> Logic(1-6) Trigger Input Port	IN1~12	Initial value: no definition. Select the digital input port corresponding to the function signal. The input port " <b>0</b> is not defined" means that the function is not defined.
<b>4.</b> Logic(1-6) Output Port	OUT1~16	Initial value: no definition. Select the digital output port corresponding to the function signal. The output port " <b>0</b> is not defined"means that the function is not defined.
5. $\log(1-6)$ Delay		Initial value: <b>0.0</b> ; Range: <b>0.0~99.9</b> . After the trigger signal is valid, the logic output signal is valid after the delay.
<b>6.</b> Logic(1-6) Delay OFF Timer	Unit s	Initial value: <b>0.0</b> ; Range: <b>0.0~99.9</b> . After the trigger signal is invalid, the logic output signal will be invalid after the delay.
7. Logic(1-6) Output ON Timer	Unit s	Initial value: <b>0.0</b> ; Range: <b>0.0~99.9</b> . The duration after the logic output signal is valid, and becomes invalid after the end of the time.
8. Logic(1-6) Trigger weight	Unit <b>KG</b>	Initial value: <b>0.0 0</b> ; Range: <b>0.0~ 100.00</b> . 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 ON/OFF 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 ON/OFF 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 ON/OFF 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 ON/OFF 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 controller 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 [ON/OFF output definition trigger], the operation is as follows:

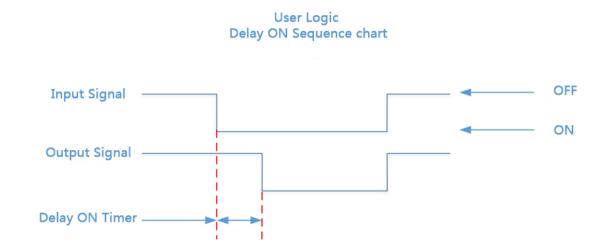
1. Set parameters and ON/OFF quantity: trigger signal select "Run" (ON/OFF output can define or not define running signal), logic output port is defined as 1 (can see that ON/OFF output port 1 is displayed as auxiliary logic output 1 ), [Delayed On Time] is set for 2 seconds.

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 ON/OFF output port 1 is displayed as the auxiliary logic output 1 ), and the [delayed on time] is set to 2 seconds.

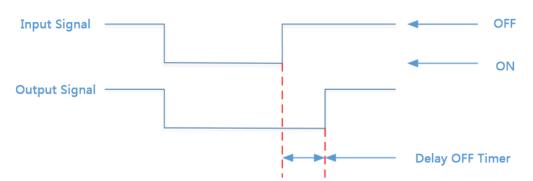
2. Execution operation: current weight value > = or < = logic 1 threshold weight is valid when setting value, start to go [delay on time], it is valid until the end of delay on time 2s, logic output signal port 1 The output is valid until the current weight < or > logic 1 threshold weight setting value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



## 3.8.2 delay off

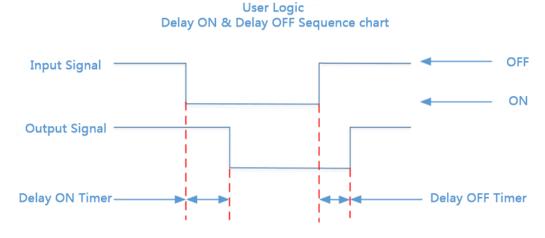
Related parameters: Type selection [delay disconnect], select [trigger signal], set [trigger input port], [logic output port definition], [delay disconnect time]. Operation Reference "3.8 .1-Delay."Its output function is shown below:





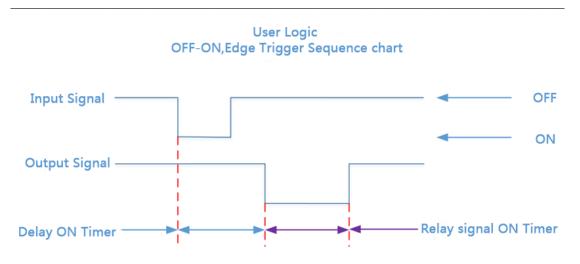
## 3.8.3 delay on and delay off

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:



## 3.8.4 invalid - valid edge triggered

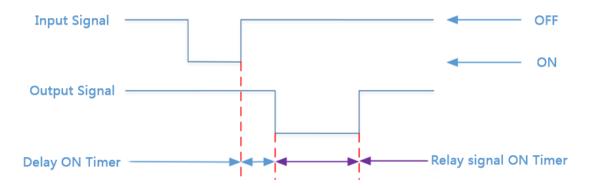
Related parameters: Type selection [invalid - valid edge trigger], select [trigger signal], set [trigger input port], [logic output port definition], [delay on time]. Operation Reference "3.8 .1-Delay." Its output function is shown below:



## 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 Manage

Technician and administrator can use the "User Management" item to perform user ON/OFFing, 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 [Return] 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 controller caused by the malfunction of the controller, the **GM9907** bagging controller provides **three** levels of authority (operator, Technician and administrator) to choose: where the **administrator can perform all operations on the meter** (not open to the user). Operator and Technician permissions are as follows:

User level	Permission		
	Quantitative values of the parameters can be set, can be calibrated, can be modified, the		
Operator test ON/OFF, and is not limited in cumulative batch menu. Otherparameters of			
	viewed, but not to modify.		
TechnicianYou can not perform all the functions of "Reset / Backup" page.AdministratorAll operations are not restricted .			

User Management	Information child	Description	
		Show logged in users.	
user list	user list	$0 \sim 7$ for the operator, 8 for the Technician,	
		9 is Administrator (highest authority).	
	1 User Legin	The currently logged in user is displayed. This item is not allowed	
User Edit	1. User Login	to be modified.	
User Edit	2. ID	Write the user <b>ID</b> to be edited .	
	2. Permissions	Both administrator/operator options are available.	

	3. Password	"On/Off" is optional. When set to off, the current login user does
	ON/OFF	not need to enter a password when logging in.
		Set/modify the login password. When setting the password, you
	4. Logic Password	need to enter the original password correctly. For the new
		password, you need to enter the same password twice, and
		fix <b>6</b> digits.
		Set the automatic login user $0 \sim 8$ or the last login user. (Note:
Auto Logic	c Auto Logic	When logging in as the system administrator last time, the default
		login is operator <b>0</b> ).

## 3.10 System Info.

Technician and administrator 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 [Return] to exit the current interface and return to the previous interface	•	Press [Return	] to exit the current	t interface and return	to the previous interface
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System information	Information child	Description			
System Version	Version Information	View the compilation date and time of the front and back the corresponding version information, S/N code, P/N code and current date and time (you can modify the current dat and time on this interface).			
	1. Recipe Password				
	2. Sys&Com Password				
	<b>3.</b> Peripherals Parameter Password	"On/Off" is optional. When set to off, the user does not need to enter a password to enter the corresponding parameters. Set			
Password	4. Motor Parameter Password	to On to modify the password value of the selected parameter item. The user needs to enter the password to enter the			
Management	5.Calibration Password	corresponding parameter.			
	6. ACUM Clear Password	Note: The national standard requires that the calibration scale			
	7. I/O Module Setting Password	parameters of the metered product must be protected by a password, so the calibration scale password ON/OFF is fixed			
	8. User Logic Password	to "on". Initial password:000000			
	9. System Info. Password				
	1. Reset All (including calibration)	Click this to restore all the parameter values of the controller to the factory settings. Brightness reset to 70% (except system information)			
Reset/ Backup	2. Reset All (Except calibration)	Click the recovery in addition to the calibration parameter other parameters to the factory defaults.Brightness reset to 70% (except system information)			
	3. Reset Recipe Parameter	Click this to restore the recipe parameter value to the factory setting.			
	4. Reset Sys&Com	Click this to restore thesystem and communicationparameter			
	Parameter	values to the factory settings.			

	5.Reset Peripherals	Click this to restore the r	peripheral parameter values to the	
	Parameter	factory settings.	semplieral parameter values to the	
			notor parameter value to the factory	
	6. Reset Motor Parameter	setting.	notor parameter value to the factory	
	7. Reset Calibration	Click this to restore the c	calibration scale parameter value to	
	Parameter	the factory setting value.		
	8 Reset I/O Module	Click this to restore the ON/OFF definition parameter value		
		to the factory setting value.		
	9. Reset User Logic	Click this to restore theauxiliary logic parameter value to the		
	Parameter	factory setting value.		
	10.Reset Shortcut Setting	Click this to restore the s value.	shortcut key to the factory setting	
	11. Execute Parameter			
	Backup	Click on the meter to bac	ck up the current parameter settings.	
	12.Execute Recovery From Backup	Click the meter to restore the parameter value to the most		
	<b>13.</b> Execute Delete Backup	recent backup value.	the backed up parameters.	
	1. All parameter	Export all parameters fro	* *	
	2. Recipe Parameter			
	3. Sys&com parameter	Export recipe parameters from USB.		
		Export system and communication parameter from USB.		
USD Data East	4. Peripherals parameter	Export peripheral parameters from USB . Export motor parameters from USB.		
USB Data Exp	<ul><li>5. Motor parameter</li><li>6. Calibration Parameter</li></ul>			
ort		Export calibration scale		
	<ul><li>7. ACUM Data</li><li>8. I/O Module</li></ul>	Cumulative export param		
		Export the ON/OFF para		
	9.User Logic Parameter	Export auxiliary logicpar		
	10. Shortcut Setting	Export shortcut key para		
	1. All parameter	Import all parameters fro		
	2. Recipe Parameter	Import recipe parameters from USB.		
	3. Sys&com parameter	Import system and communication parameter from USB.		
USB Data Imp	4. Peripherals Parameter	Import peripheral parameter from USB .		
ort	5. Motor parameter	Import motor parameters		
	6. Calibration Parameter	Import calibration scale		
	7. I/O Module	Import cumulative paran		
	8. User Logic Parameter	Import the ON/OFF para		
	9. shortcut Setting	Import auxiliary logicpar	rameters from USB.	
	1. Shortcuts - 1	value	This is Initial Value.	
	2. Shortcuts - 2	time parameter	Click to select the button	
Shortcut	3. Shortcuts - 3	weighing parameter	function. Use the [ Previous ] key	
Setting	4. Shortcuts - 4	Weighting Calibration	and the [Next ] key to select the	
	5. Shortcuts - 5	Motor Parameter	page to be searched ( 9 pages intotal )	
			<b>Note</b> : For the defined shortcut	

	6. Shortcuts - 6	Filling parameter	keys, in the shortcut key view interface, click the corresponding button to enter the corresponding parameters, such as: the shortcut	
	7. Shortcuts - 7	Input Test Key 1initially defaults to "quantitative value", in the shortcut key view interface, pr the shortcut key 1to		
	8. Shortcuts - 8	Output Test	enter "quantitativevalue" screen.If the shortcut key <b>1 is</b> defined as "start", click Start to start the meter.	
	1. Language	ON/OFF between Chinese and English. Initial value: Simplified Chinese; <b>0</b> : Simplified Chinese; <b>1</b> :English .		
	2. Brightness	Screen brightness selection.Initial value: <b>3:70%</b> Optional: <b>0:10%</b> ; <b>1:30%</b> ; <b>2:50%</b> ; <b>3:70%</b> ; <b>4:80%</b> ; <b>5: 100%</b> .		
Other Setting	3. Screen Save 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	The screen is displayed Initial value: display tim Optional: <b>0</b> : None; <b>1</b> : I <b>2</b> : 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, Ton 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  $\mathbf{0}$ , the batch number judgment is not performed.

The batch number ranges from 0 to 50000. The initial default value is 0 (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 controller has a feeding control function, and the control principle is: when the upper and lower material level inputs are invalid, the controller 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.

#### 4.3.2 Single Level

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.

**M odbus** 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 U disk upgrade software

(Note: this controller does not support NTFS format usb flash drive) Proceed as follows:

110000				
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 controller display screen and stopped the U disk plug in the controller's USB port, it will			
	automatically pop-up "system prompt" dialog box:			
	" o Update firmware			
	• Change Logo screen			
	Enter cancel"			
4.	Click the update [ Firmware ] as prompted , then $\circ$ becomes $\bullet$ , click "OK" to start the firmware			
	update process, wait for the progress bar to finish, the upgrade is successful, the controller			
	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 controller automatically			
	restarts			

## 4.7 U 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 controller display screen and stopped the U disk plug in the controller's USB port, it will		
	automatically pop-up "system prompt" dialog box:		
	" o Update firmware		
	<ul> <li>Change Logo screen</li> </ul>		
	Enter cancel ";		

4.	According to remind click Update [boot interface], it becomes $\circ \bullet$ , pictures start the update process,
	after the upgrade, the controller 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 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
	controller automatically restarts.

#### 4.8 Decoupling function

Decoupling formula parameters of ton bag scale parameters, the decoupling upstream ON/OFF is opened:

Setting value after feeding, unlock bag, control equipment bracket downward, downward after, take off the hook, the conveyor start, after decoupling before delay on bracket start up, decoupling upward duration, then execute the uplink pause time, pause time arrives, stent decline, time duration for decoupling.

#### Decoupling alarm:

If the uncoupled alarm ON/OFF is opened, during this process, if the current weight value is greater than the uncoupled alarm weight value, the machine will stop and the uncoupled alarm will be stopped. The conveyor performs reversal.

Note: This function is mainly used for prevention. After the feeding, the bag can't take off the hook completely. When the conveyor is running, the current weight value will suddenly increase, resulting in controller damage

#### 4.9 Running mode of bracket

Running mode of bracket: Air Drive-unlimit, Motor Drive-dual limit, Air Drive-dual limit

## Air Drive-unlimit

I/O Module: bracket uplink

When the metering bracket is mounted, the uplink output of the metering bracket is effective. After the uplink delay time of the metering bracket, the uplink of the metering bracket is in place. (During operation, after ascending to position, the meter can start peeling and feeding, etc.)

When the measuring support goes down, the uplink output of the measuring support is invalid. After the delay time of the measuring support goes down, the support goes down in place.(In operation, the meter can start to take off the hook after the downlink is in place)

#### **Motor Drive-dual limit:**

I/O Module input: support up in place, support down in place. I/O Module output: metering support up, metering support down.

When the measuring support is mounted, the uplink output of the measuring support is effective, while the downlink output of the measuring support is invalid. Wait for the uplink of the measuring support to be in place. If the support is still not in place within the uplink timeout period, the rising timeout alarm will be given. After the up-flow is in place, the up-flow output of the metering support and the down-flow output of the metering support are invalid

When the metering support is in the downward direction, the downstream output of the metering support is effective, while the upstream output of the metering support is invalid. If the support is still not in the downward direction within the downward timeout period of the support, the downward timeout alarm will be given. When the downlink is in place, the downlink output of the metering support and the uplink output of the metering support are both invalid

#### Air Drive-dual limit:

I/O Module input: support up in place, support down in place. I/O Module output: metering support up, metering support down.

When the measuring support is mounted, the uplink output of the measuring support is effective, while the downlink output of the measuring support is invalid. Wait for the uplink of the measuring support to be in place. If the support is still not in place within the uplink timeout period, the rising timeout alarm will be given. After the up-flow is in place, the up-flow output of the metering support is effective, while the down-flow output of the metering support is invalid.

When the metering support is in the downward direction, the downstream output of the metering support is effective, while the upstream output of the metering support is invalid. If the support is still not in the downward direction within the downward timeout period of the support, the downward timeout alarm will be given. When the downlink is in place, the downlink output of the metering support is effective, while the up-link output of the metering support is invalid.

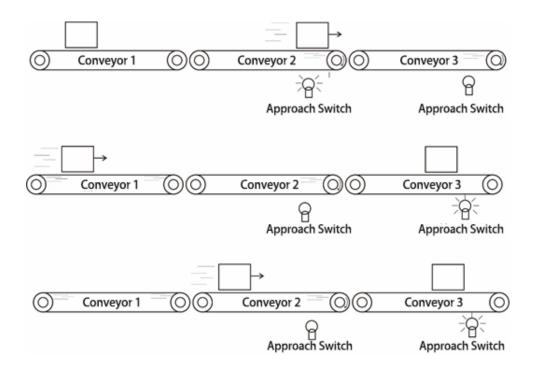
#### 4.10 Use method of 3- class conveyor for ton baling scale

Three conveyors are placed under the ton-bale balance. Conveyor No. 1 is placed under the ton-bale balance. One bag of materials is placed on conveyor 1 after decoupling.Conveyer 2 is behind conveyer 1.Conveyer 3 is behind conveyer 2.There is a limit switch (approach switch) at the end of conveyor 2 and 3 respectively.

1) If the limit switch (approach switch) of conveyor 3 is invalid, then conveyor 2 and Conveyor 3 will rotate to transport materials to conveyor 3. When the limit switch (approach switch) of conveyor 3 is effective, the rotation of conveyor 3 will stop.Similarly, conveyor 1 transports materials to conveyor 2.

2) When the upper limit switch (proximity switch) of conveyor 2 is in effect, conveyor 1 cannot start operation even though it has been disconnected. When the limit switch (proximity switch) of conveyor 2 is invalid, conveyor 1 rotates to transport materials to conveyor 2.

3) When there are materials in conveyor 3 and Conveyor 2, the forklift truck can shovel the materials away and wait for the next start and rotation.



# 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 Auto print

In the **print** mode, the automatic print ON/OFF 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 English 24 column print format is as		The English 32 column print format is as	
follows:			follows:
Packir	ng Detail		Packing schedule
Unit :	kg		Unit: kg
Recipe ID : 20		Recipe number: 20	
Total ACUM PCS Result		Total ACUM PCS Target Result	
1	5.50		3 5.60 5.50
2	5.50		4 6.00 5.80

## 5.1.2 total cumulative printing

The English 24 column print format is as		The English 32	2 column print format is as
follows:		follows:	
Total ACUM report		Total ACUM	l report
Time: 2018/6/19 13:28		Time: 2018/6/19 13:36	
Unit: kg		Unit: kg	
PCS:	18	PCS:	24
Wt:	84.16	Wt:	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 controller will automatically skip the cumulative recipe 0 does not print. The format is as follows:

The English 24 column print format is as	The English 32 column print format is as			
follows:	follows:			
All Recipe ACUM Report	All Recipe ACUM Report			
Time: 2018/6/19 13:29	Time: 2018/6/19 13:36			
Unit: kg	Unit: kg			
Recipe ID: 20	Recipe ID: 20			
PCS: 18	PCS: 24			
Wt: 84.16	Wt: 129.40			

## 5.1.4 user cumulative printing

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

Click "Print All Users Accumulate" to print the total of all users ( $0 \sim 9$ ). The meter will automatically skip users whose user accumulation is 0 and will not print. The format is as follows:

The English 24 column print format is as	The English 32 column print format is as			
follows:	follows:			
All User ACUM Report	All User ACUM Report			
Time : 2018/6/19 13:29	Time: 2018/6/19 13:37			
Unit : kg	Unit: kg			
User ID : 9	User ID: 9			
PCS : 16	PCS: 22			
Wt : 72.26	Wt: 117.50			

## 5.2 continuous mode data frame format

STX	COM	R	Т	SP	SP	Cumulative	,	Cumulative	CRC	CR	LF
	ID.					number		weight			

among them:

R — 52H

T \_\_\_\_\_ 54H

SP

—— 20 Н

Cumulative number - 9 digits, 00000000~999999999

Cumulative weight - 10 digits, including decimal point

For example, the meter sends the following data (in hexadecimal form):

#### 02 30 31 52 54 20 20 20 20 20 20 20 20 31 30 30 2C 20 20 20 30 2E 35 30 30 30 32 39 0D 0A

It means: 1# scale, the current total cumulative number is 100 times, the total cumulative weight is 0.5000.

## 5.3 Re-cont specific protocol

In this way, there is no need to send any command to the weighing display, and the display will automatically send the collected data to the computer

Return data frame format description:

State	,	GS/NT	,	+/-	Displaye	Unit	CR	LF
					d value			
2Units	2C	47 53/4E 54	2C	2B/2D	7Units	20 67(g)/ 6B 67(kg)/ 20 74(t)/ 6C 62(lb)	0D	0A

Note:

# State—2Units, OL(spill): 4FH 4CH;ST(stable):53H 54H;US(unstable):55H 53H

GW/NW——2Units, GS/NT: 47 53/4E 54

Displayed value— 7 Units, Include decimal point, If there is no decimal point, the high value is a space For example:

When the weighing display automatically sends the following frame of data:

53 54 2C 47 53 2C 2B30 31 31 2E 31 32 306B 67 0D 0A

The current state is stable, the data value is positive, and the display value is 11.120kg

## 5.3.1 abnormal function code and code

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 controller only supports writing double registers. It	
10	Write multiple	must be aligned when writing. It is not allowed to write only	
10	registers	a part of dual registers. Read-only part is allowed when	
		reading.	
01	Reading coil	Note that this low of this in hits	
05	Write coil	Note that this length is in bits .	

• Function code supported by the controller:

Note: This controller only supports the above MODBUS function code. When the controller performs other function codes, the meter will not respond.

• MODBUS exception code response

Code	name	meaning			
02	Illegal data	For the controller, the error code indicates that the data			
	address	address received is an address that is not allowed.			
03	Illegal data value	The portion of data written and the allowed range.			
04	Slara fallana	An unrecoverable error occurs when the meter is attempting			
	Slave failure	to perform the requested operation.			

07	Unsuccessful	For the meter, the received command cannot be executed
	programming	under the current conditions.
	request	

## 5.3.2 MODBUS transmission mode

The MODBUS transmission mode is the RTU mode.

When communication with the **RTU** mode, information of each **8-bit** byte is divided into **two 4bit** 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 function (single /double) byte	COM ID.	function code	Data address	Number of data read	CRC check code	
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	COM ID.	function code	Data address	Write register number	Write bytes	data input	CRC0 co	
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
0001	4 000 2	Gross	value, signed i	nteger
0002	4 000 3		The meter dis	plays the net weight value, signed
0003	4 000 4	— net	integer	
0004	4 000 5			
0005	4 000 6	Tare	Tare value	
			Bit	Description
			.0	Unstable weight : 0; stable : 1
			.1	Non-zero : <b>0</b> ; zero : <b>1</b>
000 6	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	<b>0</b> : stop; <b>1</b> : run
			.1	Before feeding
			. 2	Coarse Flow
			.3	Medium Flow
			. 4	Fine Flow
			.5	Result Checking
000 8	4 000 9		. 6	Ready
			.7	Discharge
			. 8	(-NZ-)
		Operating status	.9	Over
			. 10	Under
			. 11	Qualified(合格)
			. 12	OVER/UNDER Pause
			. 13	Bag Lock
			. 14	Lifting Bag ( valve )
000 9	40010		. 15	Pushing bag (valve )
			. 16	Hanging bag ( ton pack )
			. 17	AirBlowing ( ton pack )
			. 18	Return Valve (ton pack)

			. 19	Hanger Up ( ton pack )
			. 20	Hanger Down (ton pack )
			. 20	Upper limite ( PLCmode )
			. 21	Lower limite ( <b>PLC</b> mode )
			. 22	Batch complete
			. 24	Alarm
			• 27	Gross weight
			. 25	status: <b>1</b> : Net : <b>0</b> : Gross
				Dual scale Interlock
			. 0	Output (interlock mode )
			.1	Supplement Full
			.2	Supplement Empty
			.3	FILL
			.4	EMPT
			.5	
00 10	40011			Cutting Material
			.6	Pat Bag
			.7	Coding
			.8	DISC Patting Output
			.9	Conveyor Start
			. 10	Sewing output
			. 11	Cutter Output
		Control state 2	. 12	Auxiliary PU Output 1
			. 13	Auxiliary PU Output 2
			. 14	Auxiliary PU Output <b>3</b>
			. 15	Auxiliary PU Output 4
			. 16	User Logic Output 1
			. 17	User Logic Output 2
			. 18	User Logic Output 3
00 11	40012		. 19	User Logic Output 4
			. 20	User Logic Output 5
			. 21	User Logic Output 6
			. 22	Convery A ( ton pack )
			. 23	Convery <b>B</b> ( ton pack )
			. 24	Manual Fine Flow
			. 25	Manual Discharge
00 12 ~0 013	4 0 0 13 ~ 4 00 14	Reserved		
			.0	Target Value Can Not Be 0
			.1	Can Not Run When Weight OFL
		Automatic		
		Automatic clear	. 2	Over Zero Range!
00 14	40015	Automatic clear alarm		Over Zero Range! Non-Stable
00 14	40015		.2 .3 .4	

				Limitation
			. 6	Reserved
			.7	Running, Zero Disabled
			. 8	Over Zero Range When AutoZero
			.9	Automatic zeroing instability
			. 10	Filler Gate Close Err
			. 11	DISC Gate Close Err
				Fi-Filling Gate Open Width Not
			. 12	be 0
0015	40016		. 13	Me-Filling Gate Open Can Not Narrower Than Fi-Filling
			. 14	Co-Filling Gate Open Can Not Narrower Than Me-Filling
			. 15	Co-Filling Gate Open Can Not Narrower Than Fi-Filling
			. 16	Running Stable Timeout
00 16 ~0 019	4 00 17 ~ 4 00 20	Reserved	L	
			.0	Batch Completed!
		Manually clear the alarm	.1	Over/Under Pause
	4 00 21		. 2	Filling Gate Close OverTime t
			. 3	Bag Lock OT
0020			. 4	Bag Unlock OT
			. 5	DISC Gate Close Overtime
			. 6	DISC Gate Open OverTime
			.7	Reserved
			. 8	Reserved
			.9	Internal Communication Failed
			. 10	Coarse Flow OT
0021	40022		. 11	Medium Flow OT
0021	40022		. 12	Manual Fine OT
			. 13	Discharge OT
			. 14	Discharge Patting OT
0022~0025	4 0 0 2 3 ~ 4 00 26	Reserved	r	
			N/A	1
			.1	Capacity Low
			.2	Capacity Over
			.3	Zero Voltage Over
0026	40027	Calibration alarm	.4	Zero Voltage Low
			.5	Input Unstable
			.6	Gain Voltage Over
			.7	Gain Voltage Low
			.8	Input Unstable

			.9	Weight Error
			.10	Over Resolution
0027	4 00 28		.10	Over Resolution
0028	40029	Alarm <b>3</b>	Reserved	
0029	40030	Alalin <b>5</b>	Reserved	
0030	40031	Total cumulative		
0031	40032	weight is 6digits		
0032	40033	The total cumulative		
0033	40034	weight low 9		
0034	40035	Total accumulated		
0035	4 00 36	number of packets		
0036	40037	Current formula		
0037	40038	cumulative weight is <b>6</b> digits high		
0038	40039	The current recipe		
0039	40040	cumulative weight low <b>9</b>		
0040	4 00 41	Current formula		
0041	40042	cumulative number of packages		
0042	40043	User cumulative		
0043	40044	weight is 6digits		
0044	40045	User cumulative		
0045	40046	weight is 9digits lower	(real time parameters)	
004 6	4 00 47	User cumulative	Read only	
0047	4 00 48	number of packets		
0048	40049	Batch remaining		
0049	40050	Fast time		
0050	40051	China-Canada time	-	
0051	4 00 52	Slow time	-	
0052	40053	Setting time		
0053	4 00 54	Discharge time	-	
0054	4 00 55	Previous package time		Coarse timer + medium timer +fine timer + Result Waiting timer + Discharge timer + Filling Start Delay timer
0055	4 00 56	Previous bag weight		
0056	4 00 57			
0057	40058	Packing speed		Package / hour
0058	40059	I acking spece		
0059	40060	Flow rate		( unit ) / hour
0060	40061			

0061	4 00 62	Filling Start Delay	
0062~0099	40063~ 40100	Reserved	
Readable and	writable register		
Calibration pa	rameters (reserved 10	0~200)	r
0 100	4 0101	unit	Initial value : 1 ; 0 : g, 1 : kg, 2 : t,3 : lb (lbs)
0 101	4 0102	Decimal point	Initial value : 2 ; Optional: 0: 0 ; 1: 0.0; 2 : 0.00;3 : 0.000; 4 : 0.0000.
0 102	4 0103	Resolution	Initial value: 1 ; Optional: ( 1/ 2/ 5/ 10/ 20/ 50 ) .
0103	4 0104	Full Scale	Initial value: <b>10000</b> ; Write range (maximum range value minimum
0 104	4 0105		scale $\leq \times$ 10 0000, and not more than 999,999)
0 105	4 0106	- Zero calibration	When writing <b>1</b> to the current weight as zero, the weighing is allowed to be written when the
0106	4 0107		weighing platform is stable; the current zero millivolt is returned when reading.
0107	4 0108	Weight calibration	Enter the standard weight weight ( $\leq$ maximum range );
0108	4 0109	weight cultoration	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
0110	4 0111	(Millivolts)	<b>corresponding to the current weight</b> ( if the current millivolt is too small or too large, it cannot be calibrated and returns <b>0XFFFF</b> . ).
0111	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.
0 112	4 0113		When writing this register, use both to perform gain calibration. Returns <b>0000H</b> when read .
0113	4 0114	Sensor sensitivity	3mV/V (Note 2).
0114	4 0115	Controller sensor voltage	The multimeter measures the voltage between <b>EX</b> + and <b>EX</b> ( <b>Note 2</b> ).

			1
0115	4 0116		
0 116	4 0117	Sensor maximum	Initial value: <b>10000</b> ; ( <b>Note 2</b> ).
0 117	4 0118	range	Write range (maximum range value minimum scale $\leq \times$ 10 0000, and not more than 999,999)
0118	40119		Initial Value:0.0s
0119	40120	Feeding time	Write range:0~99.9s
0120	40121		Write the weight value corresponding to the gain
			millivolts;Press "manual discharge" to record the
	101.00	Material calibration	current relative millivolt, and use the two to
0121	40122		calibrate the gain when writing this register;
			Return 0000H on read.
0 122~ 0199	4 0123~ 40200	Reserved	
System and co	mmunication parame	ters - weight parameter	s ( reserved <b>200~500</b> )
0 200	4.0201	64.11	Initial value : 2 ;
0 200	4 0201	Stable range	Stable range ( 0 ~ 9 9 d optional )Unit: d
0 201	4 0202	Stable Timer	Initial value: <b>0.3</b> ; range: <b>0.1~9.9</b> . (unit <b>s</b> )
0 202	4 0203	Zero Range	Initial value: 50 ; Range : 1 -99units: %
0 203	4 0204	Zero Track Range	Initial value: <b>0</b> ; Range : <b>0-9</b> Unit: d
0 204	4 0205	Zero Track Time	Initial value: <b>2.0</b> ; range: <b>0.1~99.9</b> . (unit <b>s</b> )
	4 0206	Sampling Rate (SPS)	Initial value: 2;
0 205			Optional: 0: 120 times / sec; 1:24 0 times /
			sec; 2: 480 times / sec; 3: 960 times / sec.
0206~0249	4 0207~ 40250	Reserved	
System and co	mmunication parame	ters - filter parameters	
0 250	4 0251	Digital Filter	Initial value: 7 ; Range: 0 to 9
0 251	4 0252	Advance Filter ON/OFF	Initial value: <b>0</b> ; <b>1</b> : On <b>0</b> : Off
0 252	4 0253	Dynamic Filter	Initial value: <b>0</b> ; <b>1</b> : On ; <b>0</b> : Off
0 253	4 0254	Filling Filter Level	Initial value: 2 ; Range: 0 to 9
0254	4 0255	Waiting Process Filter	Initial value: 7 ; Range: 0 to 9
0 255	4 0256	Discharge Process Filter	Initial value: 1 ; Range: 0 to 9
0 256~ 0299	4 0257 ~ 40300	Reserved	:
System and co	mmunication parame	ters - function parameter	ers
0 300	4 0301	Power-Up Zero	Initial value: <b>0</b> ; <b>1</b> : On ; <b>0</b> : Off
			Initial value: <b>0</b> ;
0 301	40302	Auto Zero Interval	Range: 0-99 has the bucket tocomplete the
			packing and then clear the current weight.
0.202	40303	Running Stable	The initial value is <b>0</b> ; therange
0 302	40303	Timeout	is <b>0 to 9 9.9 .</b> (unit <b>s</b> )

0 303	40304	Result Checking	Initial value: <b>0</b> ; (range: <b>0</b> , <b>1</b> )
	[	Mode	0 : Stable Status ; 1 : Delay Timer
0 304	40305	Add toTotal When	
		Manual Discharge	Initial value: <b>0</b> ; <b>1</b> : On ; <b>0</b> : Off
0 305	40306	Result Holding	Initial value: <b>0</b> ; <b>1</b> : On ; <b>0</b> : Off
0 306	40307	Adaptive Level	Initial value: <b>3</b> ; Range: <b>1</b> ~ <b>5</b>
0 307	40308	Adaptive ON/OFF	Initial value: <b>0</b> ; Range: <b>0</b> ~ <b>2</b>
0308	40309	Manual clutch	
0000	+0507	ON/OFF	Initial value: <b>0</b> ; <b>1</b> : On ; <b>0</b> : Off
0309	40310	Bracket running	
0307	40310	control ON/OFF	Initial value: <b>0</b> ; <b>1</b> : On ; <b>0</b> : Off
0310	40311	Hang bag running	
0310	40311	control ON/OFF	Initial value: <b>0</b> ; <b>1</b> : On ; <b>0</b> : Off
0311	40312	Hang bag OFF logic	
0311	40312	ON/OFF	Initial value: <b>0</b> ; <b>1</b> : On ; <b>0</b> : Off
0312	40313	Gross weight detect	
0312	40313	ON/OFF	Initial value: <b>0</b> ; <b>1</b> : On ; <b>0</b> : Off
0313 ~ 0349	40314 ~ 40350	Reserved	-
System and co	mmunication parame	ters - structural parame	ters
			Initial value: 0;
			<b>0</b> : With Hopper; <b>1</b> : No
0 350	40351	Weigher Structure	Hopper; <b>2</b> : <b>PLC</b> mode; <b>3</b> : ton scale; <b>4</b> : Valve
			scale.
			Initial value : 0;
0 351	40352	Working Mode	0: single scale; 1: Dual Scale: Master ;2: Dual
			Scale: Slave
0.050	102.52		Initial value: 1;
0 352	40353	Packing Mode	<b>0:</b> Gross ; <b>1:</b> Net
		Hanger Movement	Initial value: 0;
0 353	40354	Туре	<b>0</b> : Air Drive; <b>1</b> : Motor Drive
0.254	10255		Initial value: 1;
0 354	40355	Filling Mode	<b>0</b> : Solo Filling; <b>1</b> : Combination Filling
			Initial value: 0;
0.255	10256	Dual Scale Unlock	0 : Asynchro Unlock;
0 355	40356	Bag Mode	1 : Synchro Unlock1;
		_	2 : Synchro Unlock2.
0 356~ 0499	4035 7~ 40500	Reserved	÷
Recipe parame	eters - quantitative va	lue parameters ( reserve	ed 500~100 0 )
0 500	40501		
0 501	40502	Recipe ID	Initial value 1; range: 1 to 20
0 502	40503		
0 503	40504	Target	 
		Course T1	Weight value writing range : ≤ <b>maximum range</b>
0 504	40505	Coarse Flow	
0 505	40506	Remains	

0 506	40507	Medium Flow	
0 507	40508	Remains	
0 508	40509		
0 509	40510	Free Fall	
0 510	40511		
0 511	40512	Near Zero Band	
0512	40513		
0513	40514	Adaptive Level	Initial value <b>3</b> ; range: <b>1 to 5</b>
0514	40515		
0515	40516	Adaptive ON/OFF	Initial value <b>0</b> ; range: <b>0 to 2</b>
0 516~ 0549	40517 ~ 40550	Reserved	
	ter - time parameter		
0 550	40551	Filling Start Delay	Initial value: <b>0.5</b> ; range: <b>0 to99.9</b> . (unit <b>s</b> )
		COMP.Inhibit	
0 551	40552	Timer(Co-F)	. Initial value: <b>09;</b> range: <b>0 to99.9.</b> (unit <b>s</b> )
		COMP.Inhibit	
0 552	40553	Timer(Me-F)	Initial value: <b>0.9</b> ; range: <b>0 to99.9 .</b> (unit <b>s</b> )
		COMP.Inhibit	
0 553	40554	Timer(Fi-F)	Initial value: <b>0. 9</b> ; range: <b>0 to99.9 .</b> (unit <b>s</b> )
		Result Waiting	
0 554	40555	Timer	Initial value: <b>0. 5</b> ; range: <b>0 to99.9 .</b> (unit <b>s</b> )
		Bag Locked Delay	
0 555	40556	Timer	Initial value: <b>0.5</b> ; range: <b>0 to99.9</b> . (unit <b>s</b> )
		Unlock Bag Pre-	
0 556	4 0557	Delay Timer	Initial value: <b>0.5</b> ; range: <b>0 to99.9</b> . (unit <b>s</b> )
		Discharge Delay	
0 557	40558	Timer	Initial value: <b>0.5</b> ; range: <b>0 to99.9</b> . (unit <b>s</b> )
0 558~ 0599	40559~40600	Reserved	
Over/Under Pa	urameter	1	[
0. (00	40601	OVER/UNDER	
0 600		ON/OFF	Initial value: <b>0</b> ; <b>1</b> : On ; <b>0</b> : Off
0 (01	40602	OVER/UNDER	$\mathbf{L}_{\mathbf{r}}$
0 601		Pause	Initial value: <b>0</b> ; <b>1</b> : On ; <b>0</b> : Off
0 602	40603	OVER/UNDER Alarm Timer	Initial value: 10, range: 0, 000 (write)
0 602	40604		Initial value: <b>10; range: 0 ~999.</b> (unit <b>s</b> )
		Over Limit Value	
0 604	40605		Weight value writing range : ≤ <b>maximum range</b>
0 605	40606	Under Limit Value	
0 606	40607		
0 607	40608	Compensation ON/OFF	Initial value: <b>0</b> ; <b>1</b> : On ; <b>0</b> : Off.
		Compensation	

0 609	40610	Flow-ON Times	Initial value: <b>0.5</b> ; range: <b>0 to 99 .9</b> . (unit <b>s</b> )
0 610	40611	Flow-OFF Times	Initial value: <b>0.5</b> ; range: <b>0 to 99 .9</b> . (unit <b>s</b> )
	Correction Paramete		
0 611	40612	Auto Free Fall Correction ON/OFF	Initial value: <b>0</b> ; <b>1</b> : On ; <b>0</b> : Off .
0 612	40613	Reference Samples PCS	Initial value: 1 ; Range: 1~99 .
0 613	40614	Correction Effective Range	Range: 2.0 ; Range: 0 to 9.9 ( unit:% )
0 614	40615	Correction Percentage	Initial value: 1 ; Optional: 0100 % correction; 1 50% correction; 2 - 25% correction.
Jog Flow Para	meter	-	
0 615	40616	Jog Flow ON/OFF	Initial value: <b>0</b> ; <b>1</b> : On ; <b>0</b> : Off .
0 616	40617	Jog Flow-ON Timer	Initial value : 0.5 ; range: 0 to9.9 . (unit s )
0 617	40618	Jog Flow-OFF Timer	Initial value <b>: 0.5</b> ; range: <b>0 to9.9</b> . (unit <b>s</b> )
With Hopper I	Parameter	r	r
0 618	40619	Single scale combination Times	First: <b>1;</b> range: <b>0 ~ 99.</b>
0 619~ 0649	40620 ~ 40650	Reserved	
No Hopper Sc	ale Parameter		
0 650	40651	Next Lock Bag Start Delay Time	Initial value : <b>4.0</b> ; range: <b>0 to 99 .9</b> . (unit <b>s</b> )
0 651~ 0699	40652~40700	Reserved	
PLC Paramete	r		
0 700	40701	PLC-OverLimit	0 ~ Full Scale
0 701	40702	Value	
0 702	40703	PLC-UnderLimit	0 ~ Full Scale
0 703	40704	Value	v ··· run stat
0 704	40705	PLC-UpperLimit	0 ~ Full Scale
0 705	40706	Value	
0 706	40707	PLC-LowerLimit	0 ~ Full Scale
0 707	40708	Value	v - run stait
0 708~ 0749	40709~40750	Reserved	
Ton Scale Para	ameter		
0 750	40751	Hang Up Bag Delay	Initial value : 0.5 ; range: 0 to 99.9 . (unit s )
0 751	40752	Auto Hanger ON/OFF	Initial value: <b>0</b> ; <b>1</b> : On ; <b>0</b> : Off
0 752	40753	Delay Before Hanger Rise	Initial <b>value: 5.0;</b> range: <b>0 ~ 99.9.</b> (unit <b>s</b> )

0 753	40754	Delay Before Hanger Drop	Initial <b>value: 5.0;</b> range: <b>0</b> ~ <b>99.9.</b> (unit <b>s</b> )
0 754	40755	Hanger Rise Time Limitation	Initial <b>value: 5.0;</b> range: <b>0</b> ~ <b>99.9.</b> (unit <b>s</b> )
0 755	40756	Hanger Drop Time Limitation	Initial value: 5.0; range: 0 ~ 99.9. (unit s)
0 756	40757	Fan Rotating Time	Initial value : 0.5 ; range: 0 to 99.9 . (unit s )
0 757	40758	Decoupled up ON/OFF	Initial value: <b>0</b> ; <b>1</b> : On; <b>0</b> : Off.
0 758	40759	Uncoupled alarm ON/OFF	Initial value: <b>0</b> ; <b>1</b> : On; <b>0</b> : Off.
0759	40760	Hang bag reset delay	Initial value: <b>0.0</b> ; range: <b>0 to 99.9</b> . (unit <b>s</b> )
0760	40761	Blow	Initial value: 0. 0: Uplink delay before blowing 1: Uplink delay after blowing
0761	40762	Selection of return valve mode	Initial value: 0; 0: Close the return valve after feeding; 1: close the return valve after unlock bag
0762	40763	Second unlink delay	Initial value: <b>0.0</b> ; range: <b>0 to 99.9</b> . (unit <b>s</b> )
0763	40764	Second unlink timer	Initial value: <b>0.0</b> ; range: <b>0 to 99.9</b> . (unit <b>s</b> )
0764	40765	Second uplink pause timer	Initial value: <b>0.0</b> ; range: <b>0 to 99.9</b> . (unit <b>s</b> )
0765	40766	Conveyor reversal timer	Initial value: <b>0.0</b> ; range: <b>0 to 99.9</b> . (unit <b>s</b> )
0766	40767	Weight value of decoupling alarm	0~maximum range
0766	40768		
0 767~ 0799	40769~40800	Reserved	
Valve Scale Pa	arameter		
0 800	40801	Delay Before Lifting Bag	Initial value : 0.5 ; range: 0 to 99.9 . (unit s )
0 801	40802	Lifting Bag Timer	Initial value : <b>0.5</b> ; range: <b>0 to 99.9</b> . (unit <b>s</b> )
0 802	40803	Delay Before Pusing Bag	Initial value : 0.5 ; range: 0 to 99.9 . (unit s )
0 803	40804	Pushing Bag Timer	Initial value : 0.5 ; range: 0 to 99.9 . (unit s )
0 804~ 0999	40 805~ 41000	Reserved	
Patting Param	eter ( reserved 1000~	1200)	
1000	41001	Patting Mode	<ul> <li>Initial value: 0;</li> <li>Optional:</li> <li>0: Disable;</li> <li>1: After Waiting;</li> <li>2: When Filling;</li> <li>3: All time.</li> <li>With Hopper Can Write: 0,1;</li> </ul>

			No Hopper Can Write: 0~3.
1001	41002	Stout IL W-: 14	Initial values 0 · Dourses 0 · March
1002	41003	Start-Up Weight	Initial value: <b>0</b> ; Range: <b>0</b> ~Maximum range.
1003	41004	Patting Times(Filling)	Initial value: <b>0</b> ; range: <b>0~99</b> . Set the parameters for the number of shots in the feed .
1004	41005	Patting Times(Waiting)	Initial value: 4; Range: 0~99. Set the parameters for the number of shots after the value is set.
1005	41006	Patting Start Delay Timer	Initial value: <b>0.5</b> ; range : <b>0~99.9</b> . (unit <b>s</b> ) After the bag is started, the bag output is valid after this delay time.
1006	41007	Patting ON Timer	Initial value: <b>0.5</b> ; range: <b>0~99.9</b> . (unit <b>s</b> ) During the on-off cycle of the bag, the bag output valid time.
1007	41008	Patting OFF Timer	Initial value: <b>0.5</b> ; range : <b>0~99.9</b> . (unit <b>s</b> ) In the on-off cycle of the bag, the bag output invalid time.
1008	41009	Extra ON Timer	Initial value: <b>0</b> ; range : <b>0~99.9</b> .(unit <b>s</b> )
1009	41010	Pat bag starting	
1010	41011	weight 1	
1011	41012	During feeding pat bag 1	
1012	41013	Pat bag starting	
1013	41014	weight 2	
1014	41015	During feeding pat bag 2	
1015~1019	41016~ 41020	Reserved	
Coding Param	leter	-	
1020	41021	Coding Device ON/OFF	Initial value: <b>0</b> ; <b>1</b> : On ; <b>0</b> : Off .
1021	41022	Coding Start Delay Timer	Initial value: <b>0.5</b> ; range: <b>0 to 99 .9</b> . (unit <b>s</b> )
1022	41023	Coding Duration Timer	Initial value: <b>0.5</b> ; range: <b>0 to 99 .9</b> . (unit <b>s</b> )
1023	41024	Not Allow Fill/Discharge When Coding	<ul> <li>Initial value: 0;</li> <li>0: The discharge output or the feed output is allowed to start during the coding process;</li> <li>1: The discharge output or feed output is not allowed to start during the coding process.</li> </ul>
1024~1029	41025~41030	Reserved	
Sewing Param	neter		
1030	41031	Sewing Start Delay Timer	Initial value: <b>0.5</b> ; range: <b>0 to 99 .9</b> . (unit <b>s</b> )

1031	41032	Sewing ON Timer	Initial value: <b>4.0</b> ; range: <b>0 to 99 .9</b> . (unit <b>s</b> )
1032	41033	Cutter ON Timer	Initial value: <b>0. 5</b> ; range: <b>0 to 99 .9</b> . (unit <b>s</b> )
1033	41034	Sewing Stop Delay	Initial value: <b>0.5</b> ; range: <b>0 to 99.9</b> . (unit <b>s</b> )
1034	41035	Cutter Start Delay	Initial value: <b>0.5</b> ; range: <b>0</b> to <b>99</b> . <b>9</b> . (unit <b>s</b> )
1035	41036	Sewing Debounce Timer	Initial value: <b>0.3</b> ; range: <b>0 to 99 .9</b> . (unit <b>s</b> )
1036~1039	41037~41040	Reserved	
Discharge Patt	ting Parameter	<u>-</u>	
1040	41041	Discharge Patting ON/OFF	Initial value: <b>0</b> ; <b>1</b> : On ; <b>0</b> : Off .
1041	41042	Discharge ON Timer	Initial value: <b>2.0</b> ; range: <b>0 to9.9</b> . (unit <b>s</b> )
1042	41043	Discharge Patting ON Timer	Initial value: <b>0.5</b> ; range: <b>0 to9.9</b> . (unit <b>s</b> )
1043	41044	Discharge Patting OFF Timer	Initial value: <b>0.5</b> ; range: <b>0 to9.9</b> . (unit <b>s</b> )
1044	41045	Discharge Patting Times	Initial value: 10 ; Range: 0 to 99.
1045~1049	41046~41050	Reserved	
Filling/Discha	rge Overtime		
1050	41051	Overtime Checking ON/OFF	Initial value: <b>0</b> ; <b>1</b> : On ; <b>0</b> : Off .
1051	41052	Coarse Flow Overtime	Initial value: <b>5.0</b> ; range: <b>0</b> to <b>99</b> . <b>9</b> . (unit <b>s</b> )
1052	41053	Medium Flow Overtime	Initial value: <b>5.0</b> ; range: <b>0</b> to <b>99</b> . <b>9</b> . (unit <b>s</b> )
1053	41054	Manual Fine Overtime	Initial value: <b>5.0</b> ; range: <b>0</b> to <b>99</b> . <b>9</b> . (unit s)
1054	41055	Discharge Overtime	Initial value: 5.0; range: 0 to 99.9. (unit s)
1055~1059	41056~41060	Reserved	
Auxiliary Pul	se Parameter		
1060	41061	Auxiliary Pulse 1 Execute Total Timer	Initial value: <b>0.0</b> ; Range: <b>0 to 9 9 9.9</b> . (unit <b>s</b> )
1061	41062	Auxiliary Pulse 1 ON Timer	Initial value: <b>10.0</b> ; Range: <b>0 to 9 9 9.9</b> . (unit <b>s</b> )
1062	41063	Auxiliary Pulse 1 OFF Timer	Initial value: <b>10.0</b> ; Range: <b>0 to 9 9 9.9</b> . (unit <b>s</b> )
1063	41064	Auxiliary Pulse 2 Execute Total Timer	Initial value: <b>0.0</b> ; Range: <b>0 to 9 9 9.9</b> . (unit <b>s</b> )
1064	41065	Auxiliary Pulse 2 ON Timer	Initial value: <b>10.0</b> ; Range: <b>0 to 9 9 9.9</b> . (unit <b>s</b> )
1065	41066	Auxiliary Pulse 2 OFF Timer	Initial value: <b>10.0</b> ; Range: <b>0 to 9 9 9.9</b> . (unit <b>s</b> )
1066	41067	Auxiliary Pulse 3	Initial value: <b>0.0</b> ;

		Execute Total Timer	Range: 0 to 9 9 9.9 . (unit min )
		Auxiliary Pulse 3	Initial value: <b>10.0</b> ;
1067	41068	ON Timer	Range: 0 to 9 9 9.9 . (unit min )
		Auxiliary Pulse 3	Initial value: <b>10.0</b> ;
1068	41069	OFF Timer	Range: 0 to 9 9 9.9 . (unit min )
10(0	41070	Auxiliary Pulse 4	Initial value: 0.0 ;
1069	41070	Execute Total Timer	Range: 0 to 9 9 9.9 . (unit min )
1070	41071	Auxiliary Pulse 4	Initial value: 10.0;
1070	410/1	ON Timer	Range: 0 to 9 9 9.9 . (unit min )
1071	41072	Auxiliary Pulse 4	Initial value: 10.0;
10/1	41072	OFF Timer	Range: 0 to 9 9 9.9 . (unit min )
1072	41073	Auxiliary Pulse 1	
1073	41074	Auxiliary Pulse 2	Initial value: 0;
1074	41075	Auxiliary Pulse 3	0—Pulse Mode , 1—Level Mode
1075	41076	Auxiliary Pulse 4	
1076~1079	41077~41080	Reserved	
Conveyor Para	ameter		
1080	41081	Conveyor ON/OFF	Initial value: <b>0</b> ; <b>1</b> : On ; <b>0</b> : Off .
1081	41082	Conveyor Start	Initial value: <b>0.5</b> ; range: <b>0 to 99.9</b> . (unit <b>s</b> )
1001	11002	Delay Timer	
1082	41083	Conveyor Running	Initial value: <b>4.0</b> ; range: <b>0 to 99 .9</b> . (unit <b>s</b> )
		Timer	, , , , , , , , , , , , , , , , , , , ,
108 3 ~ 1089	41084 ~ 41090	Reserved	
Print Paramete			
1090	41091	Auto Print	Initial value: <b>0</b> , <b>1</b> : On ; <b>0</b> : Off
			Initial value : <b>0</b> ;
1091	41092	Printer Format	0 : 24 columns printing ; 1 :32 columns printing
1092	41093	Printing Language	· Initial value : 0 ; 0 : Chinese; 1: E nglish .
1092	41093	Printing Line Nos.	Initial value: <b>3</b> ; Range: <b>0 to 9</b> .
1093	4 1095 ~41200	Reserved	Initial value. 5, Kange. 0 to 7.
	( User Logic-1-6 res		
User Logic- I	( User Logic-1-6 res	erved 1200~1400 )	Initial value : 0 ; range 0~5 .
			<b>0</b> : CLOSE
1200	41201	I. T. T.	1 : Delay on
1200	41201	Logic Type	2 : Delay OFF
			3 : Delay ON & Delay OFF
			4 : OFF-ON,Edge Trigger
	 		5 : ON-OFF,Edge Trigger
			Initial value : 0 ; range: 0~64 .
1201	41202	Trigger Define	Can be selected from the definition of the trigger
			input port, fixed digital input port1~12, digital output definition, weight value trigger.

1202	41203	Trigger Input Port	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.	
1203	41204	Output Port	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 defined.	
1204	41205	Delay ON Timer	Initial value : 0 ; range: 0~99.9 .(unit s ) After the trigger signal is valid, the logic output signal is valid after the delay.	
1205	41206	Delay OFF Timer	Initial value : <b>0</b> ; range: <b>0~99.9</b> .(unit <b>s</b> ) After the trigger signal is invalid, the logic output signal will be invalid after the delay.	
1206	41207	Output ON Timer	Initial value : <b>0</b> ; range: <b>0~99.9</b> .(unit <b>s</b> ) The duration after the logic output signal is valid, and becomes invalid after the end of the time.	
1207	41208		Initial value: 0 ; Range:0~999999	
1208	41209	Trigger Weight	When the trigger signal selects "Threshold Weight", the current weight is compared to this value.	
1209 ~ 1219	41 210 ~41220	Reserved		
User Logic- 2				
User Logic- 2	r	1	r	
User Logic- 2			Initial value : 0 ; range 0~5 .	
User Logic- 2			Initial value : 0 ; range 0~5 . 0 : CLOSE	
			0 : CLOSE 1 : Delay on	
User Logic- 2	41221	Logic Type	0 : CLOSE 1 : Delay on 2 : Delay OFF	
		Logic Type	0 : CLOSE 1 : Delay on 2 : Delay OFF 3 : Delay ON & Delay OFF	
		Logic Type	0 : CLOSE 1 : Delay on 2 : Delay OFF 3 : Delay ON & Delay OFF 4 : OFF-ON,Edge Trigger	
		Logic Type	0 : CLOSE 1 : Delay on 2 : Delay OFF 3 : Delay ON & Delay OFF 4 : OFF-ON,Edge Trigger 5 : ON-OFF,Edge Trigger	
		Logic Type Trigger Define	0 : CLOSE 1 : Delay on 2 : Delay OFF 3 : Delay ON & Delay OFF 4 : OFF-ON,Edge Trigger	
1220	41221		0 : CLOSE 1 : Delay on 2 : Delay OFF 3 : Delay ON & Delay OFF 4 : OFF-ON,Edge Trigger 5 : ON-OFF,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	
1220	41221 41222	Trigger Define	<ul> <li>0 : CLOSE</li> <li>1 : Delay on</li> <li>2 : Delay OFF</li> <li>3 : Delay ON &amp; Delay OFF</li> <li>4 : OFF-ON,Edge Trigger</li> <li>5 : ON-OFF,Edge Trigger</li> <li>Initial value : 0 ; range: 0~64 .</li> <li>Can be selected from the definition of the trigger input port , fixed digital input port1~12 , digital output definition, weight value trigger.</li> <li>Initial value : 0 ; range 0~12 .</li> <li>Select the digital input port 0~12corresponding to this function signal , and input port 0 means</li> </ul>	

			signal is valid after the delay.
			Initial value : 0 ; range: 0~99.9 .(unit s )
1225	41226	Delay OFF Timer	After the trigger signal is invalid, the logic output
1225	41220	Delay OIT Timer	signal will be invalid after the delay.
			Initial value : 0 ; range: 0~99.9 .(unit s )
1226	41227	Output ON Timer	The duration after the logic output signal is valid,
1220	71227	ouput of v finder	and becomes invalid after the end of the time.
1227	41228		Initial value: <b>0</b> ; Range: <b>0~999999</b>
1227	41220	-	When the trigger signal selects "Threshold
1228	41229	Trigger Weight	Weight", the current weight is compared to this
			value.
1229 ~1239	41230 ~ 41240	Reserved	<u> </u>
User Logic- 3	<u>+</u>	<u>.</u>	
			Initial value : 0 ; range 0~5.
			0 : CLOSE
			1 : Delay on
1240	41241	Logic Type	2 : Delay OFF
			3 : Delay ON & Delay OFF
			4 : OFF-ON,Edge Trigger
			5 : ON-OFF,Edge Trigger
			Initial value : 0 ; range: 0~64 .
10/1	110.00	Trigger Define	Can be selected from the definition of the trigger
1241	41242		input port, fixed digital input port1~12, digital
			output definition, weight value trigger.
			Initial value : 0 ; range 0~12 .
1242	41243	Trigger Input Port	Select the digital input port 0~12corresponding
1272	11213	ingger input i oit	to this function signal, and input port $0$ means
			that this function is not defined.
			Initial value : 0 ; range 0~16 .
1243	41244	Output Port	Select the digital output port0~16 corresponding
			to the function signal, and the output
			port- $0$ means that the function is not defined.
1244	41245	Delay ON Timer	Initial value : <b>0</b> ; range: <b>0~99.9</b> .(unit <b>s</b> ) After the trigger signal is valid, the logic output
1277	41243	Delay ON Third	signal is valid after the delay.
			Initial value : <b>0</b> ; range: <b>0~99.9</b> .(unit <b>s</b> )
1245	41246	Delay OFF Timer	After the trigger signal is invalid, the logic output
			signal will be invalid after the delay.
			Initial value : <b>0</b> ; range: <b>0~99.9</b> .(unit <b>s</b> )
1246	41247	Output ON Timer	The duration after the logic output signal is valid,
			and becomes invalid after the end of the time.
1247	41248		Initial value: <b>0</b> ; range: <b>0~999999.</b>
1749	41240	Trigger Weight	When the trigger signal selects "Threshold
1248	41249	<u> </u>	Weight", the current weight is compared to this

			value.
1249 ~ 1259	41250 ~41260	Reserved	varue.
User Logic- 4	-	Keserveu	
User Logic- 4			Initial value : 0 ; range 0~5.
			0 : CLOSE
			1 : Delay on
1260	41261	Logic Type	<b>2</b> : Delay OFF
			3 : Delay ON & Delay OFF
			4 : OFF-ON,Edge Trigger
			5 : ON-OFF,Edge Trigger
			Initial value : 0 ; range: 0~64 .
12(1	412/2	T' DC	Can be selected from the definition of the trigger
1261	41262	Trigger Define	input port, fixed digital input port1~12, digital
			output definition, weight value trigger.
			Initial value : 0 ; range 0~12 .
1262	41263	Trigger Input Port	Select the digital input port 0~12corresponding
		ingger input i ort	to this function signal, and input port 0 means
		[	that this function is not defined.
			Initial value : $0$ ; range $0 \sim 16$ .
1263	41264	Output Port	Select the digital output port <b>0~16</b> corresponding
		1	to the function signal, and the output
	[ [		port- $0$ means that the function is not defined.
1264	41265	Delay ON Timer	Initial value : 0 ; range: 0~99.9 .(unit s ) After the trigger signal is valid, the logic output
1204	41205	Delay ON TIME	signal is valid after the delay.
			Initial value : <b>0</b> ; range: <b>0~99.9</b> .(unit <b>s</b> )
1265	41266	Delay OFF Timer	After the trigger signal is invalid, the logic output
			signal will be invalid after the delay.
			Initial value : <b>0</b> ; range: <b>0~99.9</b> .(unit <b>s</b> )
1266	41267	Output ON Timer	The duration after the logic output signal is valid,
			and becomes invalid after the end of the time.
1267	41268		Initial value: 0, range:0~999999.
		Trigger Weight	When the trigger signal selects "Threshold
1268	41269	66 6	Weight", the current weight is compared to this
10(0, 10=0			value.
1269 ~ 1279	41 270 ~ 41280	Reserved	
User Logic- 5	[	[	
			Initial value : 0 ; range 0~5.
			0 : CLOSE
1300	41201	I	1 : Delay on
1280	41281	Logic Type	2 : Delay OFF
			3 : Delay ON & Delay OFF
			4 : OFF-ON,Edge Trigger
			5 : ON-OFF,Edge Trigger

			Latial value , 0, course 0, CA
1281	41282	Trigger Define	Initial value : <b>0</b> ; range: <b>0~64</b> . Can be selected from the definition of the trigger
1201	41282	Ingger Denne	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
1282	41283	Trigger Input Port	to this function signal, and input port $0$ means
			that this function is not defined.
			Initial value : 0 ; range 0~16.
1283	41284	Output Dout	Select the digital output port0~16 corresponding
1205	41204	Output Port	to the function signal, and the output
			port- <b>0</b> means that the function is not defined.
			Initial value : 0 ; range: 0~99.9 .(unit s )
1284	41285	Delay ON Timer	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	Delay OFF Timer	After the trigger signal is invalid, the logic output
			signal will be invalid after the delay.
1007	(1005		Initial value : 0 ; range: 0~99.9 .(unit s )
1286	41287	Output ON Timer	The duration after the logic output signal is valid,
1207	41200		and becomes invalid after the end of the time.
1287	41288	-	Initial value: <b>0</b> ; Range: <b>0</b> ~Maximum range. When the trigger signal selects "Threshold
1288	41289	Trigger Weight	Weight", the current weight is compared to this
1200	41209		value.
1289~1299	41290~41300	Reserved	
User Logic- (	Ó		
			Initial value : 0 ; range 0~5.
			0 : CLOSE
			1 : Delay on
1300	41301	Logic Type	2 : Delay OFF
			<b>3</b> : Delay ON & Delay OFF
			4 : OFF-ON,Edge Trigger
			5 : ON-OFF,Edge Trigger
			Initial value : 0 ; range: 0~64 .
1301	41302	Trigger Define	Can be selected from the definition of the trigger
1301	41302	Trigger Define	input port, fixed digital input port1~12, digital
			output definition, weight value trigger.
			Initial value : <b>0</b> ; range <b>0~12</b> .
1302	41303	Trigger Input Port	Select the digital input port 0~12corresponding
			to this function signal, and input port 0 means
			that this function is not defined.
1303	41304	Output Port	Initial value : <b>0</b> ; range <b>0~16</b> . Select the digital output port 0~16 corresponding

			to the function signal and the output
			to the function signal, and the output port- <b>0</b> means that the function is not defined.
			Initial value : 0 ; range: 0~99.9 .(unit s )
1304	41305	Delay ON Timer	After the trigger signal is valid, the logic output
1304	41505	Delay ON TIME	signal is valid after the delay.
			Initial value : 0 ; range: 0~99.9 .(unit s )
1305	41306	Delay OFF Timer	After the trigger signal is invalid, the logic output
1305	41300	Delay OFF Timer	
			signal will be invalid after the delay.
1306	41307	Outrout ON Times	Initial value : <b>0</b> ; range: <b>0~99.9</b> .(unit <b>s</b> ) The duration after the logic output signal is valid,
1300	41507	Output ON Timer	and becomes invalid after the end of the time.
1307	41308		Initial value: 0 ; range: 0~999999.
1307	41306		When the trigger signal selects "Threshold
1308	41309	Trigger Weight	Weight", the current weight is compared to this
1500	41507		value.
1309 ~ 1399	41310~41400	Reserved	
		e ( reserved 1400~1600	)
	etti 5 - recuring mout	Current Filler Motor	,
1400	41400	Cfg ID	Initial value: 0 ; Range: 0~4
			Initial value : 0 ;
			Optional:
1401	41402	Filling Mode	<b>0</b> : Air Drive ; <b>1</b> : Step Motor Drive;
			2 : Motor Drive.
		Filler Gate Close	
1402	41403	Overtime	Initial value: <b>4.0</b> ; range: <b>0~99.9.</b> (unit <b>s</b> )
			Initial value: <b>0</b> ;
		Filler Gate Limit	Optional:
1403	41404	Signal Type	<b>0</b> : In Position When Have Signal;
			1 : In Position When No Signal
1404	41405	Filler Motor Cfg ID	Initial value: 0, range: 0~4
1405	41.400	Filler Motor	
1405	41406	Frequency	Initial value : <b>12000</b> , range: <b>1~50000Hz</b>
1406	41407		
1406	41407	Steps For Filler	Initial value : <b>1800</b> ; range: <b>1~60000 .</b>
1407	41408	Open to Fi-F	initial value . 1000 , lange. 1~00000 .
1407	41400		
1408	41409		
		Steps For Filler	Initial value : <b>4300</b> ; range: <b>1~60000</b> .
1409	41410	Open to Me-F	
1410	41411		
		Steps For Filler	Initial value : 7750 ; range:1~60000 .
1411	41412	Open to Co-F	

1412	41413	Filler Motor DR	Initial value : <b>0</b> ; Optional: <b>0</b> : Gate Open When Signal ON ; <b>1</b> : Gate Open When Signal OFF
1413	41414	Filler Motor Start Frequency	Initial value : 2000 ; Range: 0~50000Hz (This value should preferably not be greater than the feeding motor frequency)
1414	41415	Filler Motor ACC Time	Feed motor acceleration time Initial value: <b>200</b> ; Range: <b>0~9999 .</b> (unit <b>s</b> )
1415	41416	Filler Motor DEC Time	Feed motor deceleration time Initial value: <b>50</b> ; Range: <b>0~9999 .</b> (in <b>ms</b> )
1416	41417	Co-F,Gate Open Time	Initial value: <b>0.80</b> ; Range : <b>0~99.99 .</b> (unit <b>s</b> )
1417	41418	Me-F,Gate Open Time	Initial value: <b>0.40</b> ; Range: <b>0~99.99 .</b> (unit <b>s</b> )
1418	41419	Fi-F,Gate Open Time	Initial value: <b>0.20</b> ; Range: <b>0~99.99</b> . (unit <b>s</b> )
1419	41420	Lock Mode	Initial value: 0; Optional: 0 : Air Drive 1 : Step Motor Drive 2 : MotorDrive Dual-Limit; 3 : MotorDrive Single-Limit.
1420	41421	Bag Release Overtime	Initial value: <b>3.0</b> ; Range: <b>0</b> ~ <b>99.9</b> . (unit <b>s</b> )
1421	41422	Bag Lock Overtime	Initial value: <b>3.0</b> ; range: <b>0~99.9</b> . (unit <b>s</b> )
1422	41423	Clutch Limit Signal Type	Initial value: <b>0</b> ;Optional: <b>0</b> : In Position When Have Signal <b>1</b> : In Position When No Signal.
1423	41424	Clutch Lock Frequency	Initial value: 30000 ; Range: 1~50000 Hz .
1 424	41425	Clutch Release Frequency	Initial value: 20000 ; range: 1~50000 Hz.
1425	41426	Otana ta L. 1. D.	Lick Level 12000 1 (2000
1426	41427	Steps to Lock Bag	Initial value: <b>12000</b> ; range: <b>1~60000</b> .
1427	41428	Clutch Motor DR	Initial value: 0; Optional: 0 : Lock Bag When Signal OFF; 1 : Lock Bag When Signal ON.
1428	41429	Clutch Motor Start Frequency	Initial value: <b>2000 ;</b> range: <b>0 ~ 50000 Hz</b> .

			(This value cannot be greater than the pocket	
			frequency)	
1429	41430	Clutch Motor ACC	Initial value: 200;	
172/		Time	Range: 0~9999 . (in ms )	
1430	41431	Clutch Motor DEC Time	Initial value: 50 ; Range: 0~9999 (in ms).	
1431	41432	Bag Release Time	Initial value: <b>0.5</b> , range: <b>0~99.99</b> . (unit <b>s</b> )	
1432	41433	Discharge mode	<ul> <li>Initial value: pneumatic mode;</li> <li>0, Air Drive;</li> <li>1. Step Motor Drive</li> <li>2, MotorDrive Single-Limit;</li> <li>3, MotorDrive Dual-Limit;</li> <li>4. MotorDrive Rotating.</li> </ul>	
1433	41434	DISC Gate Close Overtime	Initial value : <b>3.0</b> ; range: <b>0</b> ~ <b>99.9</b> . (unit <b>s</b> )	
1434	41435	DISC Gate Open Overtime	Initial value : <b>3.0</b> ; range: <b>0</b> ~ <b>99 .9 .</b> (unit <b>s</b> )	
1435	41436	DISC Gate Limit Signal Type	<ul> <li>Initial value: 0 ;</li> <li>Optional:</li> <li>0 , In Position When Have Signal.</li> <li>1. In Position When No Signal.</li> </ul>	
1436	41437	Realtime Detecting When Discharge	Initial value : <b>0</b> ; <b>0</b> : off ; <b>1</b> : on.	
1437	41438	DISC Motor Open Frequency	Initial value : 30000 ; range: 1~50000 ( Hz ) .	
1438	41439	DISC Motor Close Frequency	Initial value : 20000 ; range: 1~50000 ( Hz ) .	
1439	41410			
1440	41411	<ul> <li>Discharge Steps</li> </ul>	Initial value : <b>12000</b> ; range: <b>1~60000</b> .	
144 1	41412	DISC Motor DR	Initial value : 0 ; Optional: 0 : Gate Open When Signal OFF 1: Gate Open When Signal ON	
1442	41416	DISC Motor Start Frequency	Initial value: <b>2000</b> ; range: <b>1~50000</b> ( <b>Hz</b> ). (This value cannot be greater than the discharge frequency)	
1443	41414	DISC Motor ACC Time	Initial value: <b>200</b> ; Range: <b>0~9999 .</b> (in <b>ms</b> )	
1444	41415	DISC Motor DEC Time	Initial value: <b>50</b> ; Range: <b>0~9999 .</b> (in <b>ms</b> )	
1445	41416	DISC Gate Open Timer	Initial value: <b>1.00 ;</b> Range: <b>0~99.99</b> . (unit <b>s</b> )	
1446~1599	41417~41600			
Communicati	on parameters - seria	port 1 parameters ( res	erved 1600~1700 ) 485	

1600	41601	Communication ID	Initial value: 1; 1 ~ 9 9 optional.
			0 : Modbus-RTU ;
		Communication	1 : Printing Mode
1601	41602	Mode	<b>2</b> : continuous mode
			3 : MD-R (compatible with 01. version)
			0 : 9600
			1 : 119200
1602	41603	Baud rate	2 : 38400
			3 : 57600
			4 : 115200
			Communication data format selection (data bit,
			parity bit, stop bit . E : even parity; N : no
			parity)
1603	41604	Data Format	0 : 8-E-1
			1 : 8-N-1
			2 : 7-E-1
			3 : 7-N-1
			Initial value : 0 : Range : 0-1
1604	41605	Dword Format	0 : AB-CD;
			1 :CD-AB .
Communicati	on parameters - serial	port 2 parameters 2	32
1605	41606	Communication ID	Initial value: 1 ; 1 ~ 9 9 optional.
		Communication	0 : Modbus-RTU ;
1606	41607		1 : Printing Mode
1000	41007	Mode	2 : continuous mode
			3 : MD-R (compatible with 01. version)
			0:9600
			1 : 119200
1607	41608	Baud rate	2:38400
			3 : 57600
		<u> </u>	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
		1	3 : 7-N-1
			Initial value : 0 : Range : 0-1
1609	41610	Dword Format	<b>0 : AB-CD</b> ;
			1 :CD-AB .
Communicati	on parameters - Ether	net Interface parameters	
			Initial value : 0 : Range : 0-1
1610	41611	Dword Format	0 : AB-CD;
			<b>1 :CD-AB</b> .

1611	41612	Server Port	Initial value: <b>502</b> ; Range: 1 ~ 65535
1 612	41613		
1613	41614		Initial value: 192.168.1 01 . 246 .
1614	41615	IP-address	Range: $0 \sim 255$ .
1615	41616		
1616~1699	41617~41700	Reserved	<u></u>
	ustom parameters ( re	served 1800~1900 )	
1 = 0.0	41501	Digital input	
1700	41701	port 1definition	
1701	41702	Digital input	
1701	41702	port 2definition	
1702	41703	Digital input	
1702	41/03	port 3definition	
1703	41704	Digital input	
1703	41/04	port 4definition	
1704	41705	Digital input	
1704	41703	port 5definition	write:
1705	41706	Digital input	Write the function corresponding value . If <b>IN</b>
1705	41700	port 6definition	is defined as running, write 1 in
1706	41707	Digital input	the corresponding register of IN.
1700	41707	port 7definition	read:
1707	41708	Digital input	Returns the current ON/OFF custom state
1/0/	11700	port 8definition	-
1708	41709	Digital input	
1700		port 9definition	4
1709	41710	Digital input	
		port <b>10</b> definition	
1710	41711	Digital input	
		port 11definition	
1711	41712	Digital input	
		port <b>12</b> definition	
1712	41713	ON/OFF output	
		port 1definition	
1713	41714	ON/OFF output	
		port 2definition	write:
1714	41715	ON/OFF output	Write function corresponding value . If <b>OUT</b>
		port 3definition	is defined as running, write 1 in
1715	41716	ON/OFF output	the corresponding register of <b>OUT</b> .
		port 4definition	read:
1716	41717	ON/OFF output	Returns the current ON/OFF custom state
		port 5definition	
1717	41718	ON/OFF output	
		port 6definition	

		ON/OFFto -t	
1718	41719	ON/OFF output port 7definition	
		ON/OFF output	
1719	41720	port 8definition	
		ON/OFF output	
1720	41721	port 9definition	
		ON/OFF output	
1721	41722	port <b>10</b> definition	
		ON/OFF output	
1722	41723	port <b>11</b> definition	
		ON/OFF output	
1723	41724	port <b>12</b> definition	
		ON/OFF output	
1724	41725	port <b>13</b> definition	
		ON/OFF output	
1725	41726	port 14definition	
		ON/OFF output	
1726	41727	port 15 definition	
1505	41720	ON/OFF output	
1727	41728	port <b>16</b> definition	
1728	41729	Start / end ON/OFF test	<ul> <li>write:</li> <li>The stop state can be written . Write 1 to start the ON/OFF test .</li> <li>The ON/OFF test state. Press input and output ports the input and output test registers, defined functions not performed.</li> <li>In the ON/OFF test state , write 0 to exit the ON/OFF test state . The input and output ports perform the defined functions .</li> <li>Read: Returns the status of the current ON/OFF test ON/OFF .</li> </ul>
1729	41730	Input test	<ul> <li>Write: not allowed to write</li> <li>Read: From the low to the high, the</li> <li>corresponding port IN1~12 input .</li> <li>1 is valid for input, 0 is invalid for input .</li> </ul>
1730	41731		Write: The ON/OFF test ON/OFF can be written in the open state, and the output from the low to the high port corresponds to the
1731	41732	Output test	port <b>OUT1~16</b> . <b>1</b> is valid for output, <b>0</b> is invalid for output . Read: Returns the status of the current output ON/OFF port, from the low to the high, respectively, corresponding to the port <b>OUT1~16</b> output . <b>1</b> is valid for output, <b>0</b> is invalid for output .

1732~1799	41733~41800	Reserved		
Other parame	ter settings (reserved)	1900~2000 )		
1800	41801	Print Total ACUM	Read as <b>0</b> Write <b>1</b> , Print Total ACUM	
1801	41802	Print recipe ACUM	Read as <b>0</b> Write <b>100</b> to print the current recip Write <b>1-20</b> , print the correspondin ACUM Write <b>101</b> to Print All Recipe ACU	ng formula
1802	41803	Print user ACUM	Read as <b>0</b> Write <b>100</b> to Print Choose User A0 Write <b>0-9</b> , print the corresponding ACUM Write <b>101</b> , Print All User ACUM	
1803	41804	reset	<ul> <li>8800 Reset All(Including Calibration</li> <li>8801 Reset All(Except Calibration</li> <li>8802 Reset Recipe Parameter</li> <li>8803 Reset Sys&amp;Com Paramter</li> <li>8804 Reset Peripherals Parameter</li> <li>8805 Reset Motor Parameter</li> <li>8806 Reset Calibration Parameter</li> <li>8807 Reset I/O Module</li> <li>8808 Reset User Logic Parameter</li> </ul>	)
1804	41805	backup	read: 0: No Backup Data; 1: Have Backup Data. write: Write <b>9900</b> to Execute Parameter I Write <b>9901 to</b> Execute Recovery F Write <b>9902 to</b> p Execute Delete Ba	From Backup
1805	41806	Backup date		
1806	41807	Dackup uaic		Read only
1807	41808	Backup time		iceua onny
1808	41809	Euckup 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 All Recipes ACUM	Write 1 clear total accumulation	

1816	41817	Clear recipe ACUM	Write <b>1-20 to</b> clear the Recipe ID ACUM; Write <b>100 to</b> Clear Choose Recipe ACUM; Write <b>10</b> 1 to Clear All Recipe ACUM .
1817	41818	Clear user ACUM	Read as <b>0</b> . Write <b>0-9 to</b> clear the user ID ACUM ; Write <b>100 to</b> clear choose user ACUM ; Write <b>101</b> to clears all user ACUM .
1818	41819	User ID	Read out current ID, parameter ready only
1819  1949	41820  41950	Reserved	
Batch setting		<u>.</u>	
1950	41951	Batch	Initial value: <b>0</b> ; range: <b>0</b> ~ <b>50000</b> .
1951	41952	Remain PCS	Read only
1952~1999	41953~42000	Reserved	
Formula targe	et value (reserved 200	0~2300)	
2000	42001	Recipe 1 target	Initial value : 0.
2001	42002	Recipe i target	
2002	42003	Recipe <b>2</b> target	Initial value : 0.
2003	42004	Recipezaiger	
		•••••	
2038	42039	Recipe 20 target	Initial value : 0.
2039	42040	F	
Cumulative	weight		
2040		<b>T</b>	
	42041	Total cumulative	
2041	42041 42042	Total cumulative weight is <b>6</b> digits	Read only
		weight is <b>6</b> digits The total cumulative	Read only
2041	42042	weight is 6digits	Read only
2041 2042	42042 42043	weight is 6digits The total cumulative weight low 9 Total accumulated	
2041 2042 2043	42042 42043 42044	weight is 6digits The total cumulative weight low 9	Read only Read only
2041 2042 2043 2044	42042 42043 42044 42045	<ul> <li>weight is 6digits</li> <li>The total cumulative weight low 9</li> <li>Total accumulated number of packets</li> <li>Formula 1cumulativ</li> </ul>	
2041 2042 2043 2044 2045	42042 42043 42044 42045 42046	weight is 6digits The total cumulative weight low 9 Total accumulated number of packets	
2041         2042         2043         2044         2045         2046	42042 42043 42044 42045 42045 42046 42047	weight is 6digits The total cumulative weight low 9 Total accumulated number of packets Formula 1cumulativ e weight	Read only
2041         2042         2043         2044         2045         2046         2047	42042 42043 42044 42045 42045 42046 42047 42048	<ul> <li>weight is 6digits</li> <li>The total cumulative weight low 9</li> <li>Total accumulated number of packets</li> <li>Formula 1cumulativ e weight is 6digits high</li> </ul>	
2041         2042         2043         2044         2045         2046         2047         2048	42042 42043 42044 42045 42045 42046 42047 42048 42049	<ul> <li>weight is 6digits</li> <li>The total cumulative weight low 9</li> <li>Total accumulated number of packets</li> <li>Formula 1cumulativ e weight is 6digits high</li> <li>Formulation 1cumul</li> </ul>	Read only
2041         2042         2043         2043         2044         2045         2046         2047         2048         2049	42042 42043 42044 42045 42045 42046 42047 42048 42049 42050	<ul> <li>weight is 6digits</li> <li>The total cumulative weight low 9</li> <li>Total accumulated number of packets</li> <li>Formula 1cumulativ e weight is 6digits high</li> <li>Formulation 1cumul ative weight low 9</li> </ul>	Read only

31(0	40171		
2160	42161	Formulation 6High	
2161	42162	<b>20</b> cumulative weight	
2162	42163	Formulation20 cumu	
2163	42164	lative weight low 9	
2164	42165	Formula <b>20</b> cumulati	
2165	42166	ve times	
User cumu	lative weight and n	umber of times	
2166	42167	User <b>0</b> cumulative	
2167	42168	weight is <b>6</b> digits high	
2168	42169	User <b>0</b> cumulative	
		weight	
2169	42170	is 9digits lower	Read only
2170	42171	User <b>0</b> cumulative	
2171	42172	times	
2172	42173	User 1 has	
2173	42174	acumulative weight of 6digits	
2174	42175	1 usercumulative	
2175	42176	weight low 9	
2176	42177	User 1cumulative	
2177	42178	count	
2178	42179	User 2cumulative	
2179	42180	weight is <b>6</b> digits high	
2180	42181	2 usersaccumulated	
2181	42182	weight low 9	
2182	42183	User 2cumulative	
2183	42184	times	
2184	42185	User <b>3</b> cumulative	
2185	42186	weight is 6digits	
2186	42187	Usercumulative	
2187	42188	weight low 93	
2188	42189	User <b>3</b> cumulative	
2189	42190	times	
2190	42191	User 4cumulative	
2191	42192	weight is 6digits	
2192	42193	4 usersaccumulated	
2193	42194	weight low 9	
2194	42195	User 4cumulative	
2195	42196	times	
2196	42197		
	1		

9008~9099	49009~49100	Reserved (reserved 91	00~9200 )
9007	49008	IO Board Version	For example : 100
9006	49007		
9005	49006	Logic Compile Time	For example : <b>130805</b>
9004	49005		
9002	49004	Logic Compile Date	For example : <b>161201</b>
9002	49003		
9000	49002	Logic Version	For example : 0 1000 0
9000	49001		
	prmation ( reserved 9		
2226~2299	42227~42300	Reserved	1
2224	42226	times	
2223	42225	User 9cumulative	
2223	42224	weight low <b>99</b>	
2222	42223	Usercumulative	
2221	42222	weight is <b>6</b> digits	
2220	42221	User 9cumulative	1
2219	42220	times	
2218	42219	User 8cumulative	
2217	42218	weight low 9	
2215	42217	8 userscumulative	
2215	42216	weight is <b>6</b> digits	
2213	42215	User 8cumulative	
2212	42214	times	
2211	42212	User 7cumulative	
2210	42212	weight low <b>97</b>	
2210	42211	Usercumulative	
2200	42210	weight is <b>6</b> digits	
2207	42209	User 7cumulative	
2200	42208	times	
2205	42207	User 6cumulative	
2204	42203	weight low 9	
2203	42205	6 usersaccumulated	
2202	42203	weight is <b>6</b> digits	
2201	42202	User 6cumulative	
2200	42201	times	
2200	42200	User 5cumulative	
2199	42200	weight low <b>95</b>	
2198	42199	Usercumulative	
2197	42198	User 5cumulative weight is 6digits	

0	00001	Start		
1	00002	Emergency stop	-	
2	00003	stop	_	
3	00004	Pause		
4	00005	Zeroing	_	
5	00006	Clear Alarm	_	
6	00007	Lock/Unlock Request		
7	00008	Change Recipe	_	
8	00009	Manual Fine Flow		
9	00010	Manual Coarse Flow		
10	00011	Manual Discharge	=	
11	00012	Manual Empty Material	Write: FF00H =Valid (Only	
12	00013	Hanging bag	write <b>FF00H</b> );	
13	00014	Sewing Input		
14	00015	Sewing Emergency Stop	Read: $0001H = On$	
15	00016	Auxiliary PU Input 1	= 0000 H = Off	
16	00017	Auxiliary PU Input <b>2</b>		
17	00018	Auxiliary PU Input <b>3</b>		
18	00019	Auxiliary PU Input14	=	
19	00020	Clear For Adaptive		
20	00021	Manual Medium Flow	This address can only be written to 1. Read 1 is valid, 0 is invalid.	
			This address can only be written	
21	00022	Manual Flow(Only for material Calibration)	to 1. Read 1 is valid, 0 is invalid.	
22	00023	Manual Discharge(Only for material Calibration)	This address can only be written to 1. Read 1 is valid, 0 is invalid.	
•••				
80	00081	Clear Choose user ACUM		
81	00082	Clear all users ACUM		
82	00083	Clear Choose Repice ACUM	Write: <b>FF00H</b> = valid; read <b>0000H</b> .	
83	00084	Clear all Repice ACUM	1cau 000011.	
84	00085	Clear Total ACUM		
•••				
100	00101	Reset All		
101	00102	Reset Calibration	Write: <b>FF00H</b> = valid;	
		Reset Sys&Com Parameter (not read 0000H.		
102		including communication Run time can write but no		
	00103	parameters)	effective, need stop run then	
103	00104	Reset Recipe Parameter	write valid	
104	00105	Reset Peripherals Parameter		

105	00106	Reset I/O Module					
106	00107	Reset Motor Parameter					
107	00108	Reset User Logic Parameter					
108	00109	Execute Parameter Backup					
109	00110	Execute Recovery From Backup					
110	00111	Execute Delete Backup	Write: <b>FF00H</b> = delet back up parameter read: <b>0001H=</b> have back up parameter; <b>0000H=</b> no back up parameter.				
Coil ON/	OFF test ( reserved	200~250)	-				
150	00151	IO test ON/OFF: writing 1 into the IO test; <b>0</b> is exit. N	lot writable at runtime				
151	00152	When input port 1 is valid, it reads 1	; if it is invalid, it is <b>0</b> .				
152	00153	When input port <b>2</b> is valid, it reads <b>0</b>	; if it is invalid, it is <b>0</b> .				
153	00154	When input port <b>3</b> is valid, it is read is <b>0</b> .					
154	00155	When input port <b>4</b> is valid, it reads <b>1</b>					
155	00156	When input port <b>5</b> is valid, it reads <b>1</b>	; if it is invalid, it is <b>0</b> . not				
156	00157	When input port 6 is valid, it reads 1	; if it is invalid, it is <b>0</b> .				
157	00158	When input port 7 is valid, it reads 1	When input port 7 is valid, it reads 1 ; if it is invalid, it is 0.       effect				
158	00159	When input port 8 is valid, it reads 1	When input port <b>8</b> is valid, it reads <b>1</b> ; if it is invalid, it is <b>0</b> . writing				
159	00160	When input port 9 is valid, it reads 1	When input port <b>9</b> is valid, it reads <b>1</b> ; if it is invalid, it is <b>0</b> .				
160	00161	When input port <b>10 is</b> valid, it is read is <b>0</b> .	When input port <b>10 is</b> valid, it is read as <b>1</b> ; if it is invalid, it is <b>0</b> .				
161	00162	When input port <b>11 is</b> valid, it is read is <b>0</b> .					
162	00163	When input port <b>12 is</b> valid, it reads	When input port <b>12</b> is valid, it reads <b>1</b> ; if it is invalid, it is <b>0</b> .				
163	00164	When writing <b>1</b> , output port <b>1</b> is val is invalid.	id; when writing $oldsymbol{0}$ , output port $oldsymbol{1}$				
164	00165	When writing <b>1</b> , output port <b>2</b> is val is invalid.	When writing 1, output port 2 is valid; when writing 0, output port 2 is invalid.				
165	00166	When writing <b>1</b> , the output port <b>3</b> is port <b>3</b> is invalid.	When writing $1$ , the output port $3$ is valid; when writing $0$ , the output				
166	0016 7	When writing 1, the output port 4 is port 4 is invalid.	When writing 1, the output port 4 is valid; when writing 0, the output				
167	00168	When writing 1, output port 5 is val is invalid.	When writing 1, output port 5 is valid; when writing 0, output port 5				
168	00169	When writing <b>1</b> , the output port <b>6</b> is port <b>6</b> is invalid.	valid; when writing $0$ , the output				
169	00170	When writing 1, the output port 7 is port 7 is invalid.	valid; when writing $0$ , the output				

170	00171	When writing <b>1</b> , output port <b>8</b> is valid; when writing <b>0</b> , output port <b>8</b> is invalid.	
171	00172	When writing <b>1</b> , the output port <b>9</b> is valid; when writing <b>0</b> , the output port <b>9</b> is invalid.	
172	00173	When writing 1, the output port 10 is valid; when writing 0, the output port 10 is invalid.	
173	00174	When writing $1$ , the output port $11$ is valid; when writing $0$ , the output port $11$ is invalid.	
174	00175	When writing 1, the output port 12 is valid; when writing 0, the output port 12 is invalid.	
175	00176	When writing <b>1</b> , the output port <b>13 is</b> valid; when writing <b>0</b> , the output port <b>13 is</b> invalid.	
176	00177	When writing 1, the output port 14 is valid; when writing 0, the output port 14 is invalid.	
177	00178	When writing 1, the output port 15 is valid; when writing 0, the output port 15 is invalid.	
178	00179	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.

PLC address	Functional address	meaning	Description		
The following	The following is a read-only register (function code 0x03 )				
Read-only par	ameter item				
40001	00000	Controller current	Bit	Description	
40001	<b>00000</b> status 1	.0	Reserved		

M ODBUS communication address table:

			.1~1 4	Reserved	1
			. 15	Lock sta	tus: 1 lock machine
			.0	Unstable weight : 0 ; stable : 1	
			.1	Non-zero	o : <b>0</b> ; zero : <b>1</b>
			.2	symbol -	y showing the weight of the ⊦/- sign : <b>0</b> ; minus sign : <b>1</b>
40002	00001	Controller current	.3	Weight o	overflow
		status 2	.4	Negative	e weight overflow
			.5	Sensor is	soverflowing
			.6	Sensor n	egative overflow
			.7	Millivolt	s stable : 1unstable : 0
			. 8 ~ 15	Reserved	1
40003	00002	ļ	•	•	per ( display weight ) . Note:
40004	00003	Weight	When the weight overflows, that is, when the meter displays <b>OFL</b> , the weight value is fixed to return <b>0xFFFFFFFF</b> .		
40005	00004	Total	4 bytes, unsigned, indicating the cumulative package		
40006	00005	cumulative weight	weight.		
40007	00006	Total cumulative count	4 bytes, u	nsigned, in	dicating the cumulative number
40008	00007	Total cumulative count	of packages. The cumulative number of historical tolerances ,range: <b>0~9999</b>		
40009	00008	The total number			ber
40010	00009	of ultra-poor			
40011	00010	Total number of	Cumulativ	ve number	
40012	00011	underruns	of historic	al deficits	, range: <b>0~9999</b>
40013	00012	Before a fast packet	4 bytes, in millisec apid		The previous pack of historical data isupdated when" thispack age is completed ".
40014	00013		addition with t pper bag		
40015	00014		4 bytes,		
40016	00015	Add time in the previous package	in milliseconds . M ediumspeed feeding time		
40017	00016	Previous package plus	4 bytes,		l I
40018	00017	slowtime	in millisec When the	conds .	

			packet wit	th the	
			slow addit	tion	
40019	00018		4 bytes,	ĺ	
40020	00019	Previous package settingtime	in millisec me for set value		
40021	00020		4 bytes, si	gned	
40022	00021	Previous bag weight	number, indicating weight of the previo package.		
40023	00022		4 bytes,		
40024	00023	Previous package time	in millisec dicates the the previo package.	e time of	
40025	00024	Remaining batches	Remaining	g batches	
40026	00025	Packing speed	Updated o	once every half minute	
40027	00026				
 40041	 00040	Reserved			
			Bit	Description	
			.0	Run : 1 stop : 0	
			.1	Before feeding : 1	
			.2	Coarse Flow: 1	
			.3	Medium Flow : 1	
			.4	Fine Flow : 1	
			.5	S Result Checking : 1	
4 0042	0041	Operating status	.6	OVER/UNDER Pause : 1	
			.7	Over : 1	
			.8	Under : 1	
			.9	Due to poor feeding: 1	
			.10	Ready: 1	
			.11	Discharge : 1	
			.1 2	(-NZ-):1	
			.13	Bag Lock	

			.14	Pat Bag	
			.15	Reserved	
			.0	Gross : <b>0</b> ; net : <b>1</b>	
			.1	Reserved	
			.2	Batch complete : 1	
			.3	FILL : 1	
			.4	EMPT : 1	
			.5	Supplement Full : 1	
40043	0042	Conditional state	.6	Reserved	
			.7	Supplement Empty : 1	
			.8	The discharge door is closed : 1	
			.9	Reserved	
			. 10	Coding : 1	
			<b>. 1 1</b> ~ 15	Reserved	
40044	00043	General alarm information ( need to be manually cleared )	<ul> <li>0- No alarm;</li> <li>1- Batch Completed!d;</li> <li>2- Over/Under Pause</li> </ul>		
40045	00044	Calibration alarm information ( Automatically cleared after 3 seconds )	1-       Ca         2-       Ca         3-       Za         4-       Za         5-       In         6-       Ga         7-       Ga         8-       St         9-       Wa	o alarm apacity Low apacity Over ero Voltage Over ero Voltage Low put Unstable ain Voltage Over ain Voltage Low able Veight input error er Resolution ( not enough accuracy )	
40046	00045				
 40093	 00092	Reserved			
40094	00093	Actual sampling Rate (SPS)	The numb second .	er of times AD actually samples per	
4009 5	0009 4		4-byte, un	signed number is converted to decimal	
4009 6	00095	System Version	value such as 10,000, it is 01.00.00.		

		1	
40097	00096	Compile Date	4-byte, unsigned number is converted to decimal
40098	00097	-	as 150,611, as the June 11, 2015.
40099	00098	Compile time	4-byte, unsigned number is converted to decimal
40100	00099	1	as 150,611, as is 15:06:11.
e	e register fun	adable and writable ction code is 0x06 , write	multiple register function code is 0 x10 , read
System param	neter item (tra	ansmission part)	
40101	00100	Compile Date	Initial value: off, range : 0-1 (0: off; 1: on)
40102	00101	Zero Track Range	Initial value: <b>0</b> ; range : <b>0-9 .</b> Unit d
40103	00102	Zero Track Timer	Initial value: 2.0 ; range: 0.1~99.9 . (unit s )
40104	00103	Stable Range	Initial value : 2; Range : $0 \sim 99$ (d). When set to 0, the steady state is always valid.
40105	00104	Stable Timer	Initial value: <b>0.3</b> ; range: <b>0.1~9.9</b> . (unit <b>s</b> )
40106	00105	Zero Range	Initial value: <b>50</b> ; range : <b>1 -99 . (</b> Unit: % )
40107	00106	Filter series	Initial value: 7 ; Range : 0-9.
40108	00107	Advance Filter ON/OFF	Initial value : <b>1</b> ; Range : <b>0-1</b> ( <b>0 :</b> Off ; <b>1 :</b> On)
401 09	001 08	Sampling Rate (SPS)	Initial value: 2 ; Optional: 0: 120 times / sec; 1 : 24 0 times / sec; 2 : 480 times / sec; 3 : 960 times / sec.
4 0 1 10	00109		
		Reserved	
40120	00119		
Calibration pa	001 2 0	unit	Initial value : 1 ;
			<b>0:</b> g; 1: kg; 2: t; 3:lb(lbs)
401 2 2	001 2 1	Decimal point	Initial value : <b>3</b> ; <b>0</b> : <b>0</b> ; <b>1</b> : <b>0.1</b> ; <b>2</b> : <b>0.00</b> ; <b>3</b> : 0.000; <b>4</b> : 0.0000
401 23	001 22	Sensor sensitivity	(fixed 3 read only) ( unit: mv/v)
401 24	001 23	Resolution	Initial value: 0; 0: 1; 1:2; 2: 5; 3: 10; 4: 20; 5: 50.
401 25	001 24		Initial value: 10000 ;
401 26	001 25	Full Scale	Write range (maximum range value minimum scale $\leq \times$ 10 0000, and not more than 999,999).
401 27	001 26		

401 28	001 27	Calibrati on with weights	Zero Calibration	Write <b>1</b> to treat the current weight as zero, and allow the writing when the weight of the weighing platform is stable; Returns the absolute millivolts of thecalibration when reading .
401 29 401 30	001 28 001 29	weights	Weight calibration	Enter the standard weight weight ( ≤ maximum range ); Read as the current sensor relative zero millivolts
401 31	001 30			Enter zero millivolts;
401 32	001 31		Zero Calibration	Write range: The sensor is <b>3mV/V</b> : <b>5V</b> bridge <b>0.002-15.625mV</b> Read as current sensor zero millivolts
401 33	001 32	Calibrati		Write range: sensor is
401 34	001 33	on without weights	Weight Voltage	$\label{eq:model} \begin{array}{l} 3mV/V:\\ \textbf{0.000} < \text{millivolts} \leq 15.624mV \ .\\ \\ \text{The controller is temporarily stored after}\\ \\ \text{beingwritten ;}\\ \\ \text{Read as the current sensor relative zero millivolts} \end{array}$
401 35 401 36	001 34 001 35		weight calibration	Input gain weight value ( ≤maximum range ) ; must write the gain millivolts before writing this value, use both to perform gain calibration when writing this register; Read out as the weight of the gain calibration
4 0 137  40 16 0	0 0 1 36  001 5 9	Reserved		
40151	00150	Reset		Read : 0 Write : 8800: Reset All(Including Calibration) 8801: Reset All(Except Calibration) 8802: Reset All(Except Calibration) 8803: Reset Recipe Parameter 8803: Reset System Parameter 8804: Reset System parameters 8805: Reset Calibration Parameter 8806: Reset I/O Module Not writable at runtime
40152	00151	Backup		Read : <b>0:</b> No Backup Data <b>1:</b> Have Backup Data Write :

			8800: Execute Parameter Backup ( including recipe
			parameters, system and communication
			parameters ,peripheral parameters, motor
			parameters, ON/OFF parameters , auxiliary logic
			parameters, shortcut key definitions )
			8801: Execute Recovery From Backup
			8802: Execute Delete Backup
			Not writable at runtime
40153	00152		<b>4-byte,</b> unsigned number is converted to decimal
40154	00153	Backed up Date	as <b>150,611</b> , as the <b>June 11, 2015</b> (read-only, no backup returns <b>0</b> )
4015 5	00154		4-byte, unsigned number, is converted to a decimal
40156	00155	backed up Time	value such as <b>150611</b> , for the <b>June 11</b> , <b>2015</b> (read- only, no backup returns <b>0</b> )
40157  40160	00156  00159	Reserved	

Mode para	umeter (structu	re)	
40161	00160	Weigher Structure	Initial value: 0; 0: With Hopper; 1: No Hopper; 2: PLC mode; 3: Ton Scale; 4: valve Scale
40162	00161	Working Mode	Initial value: 0 ; 0 : single scale; 1 : Dual Scale: Master; 2 : iDual Scale: Slave
40 163	00 162	Filling Mode	Initial value : 0 ; 0 : Solo Filling; 1 : Combination filling
40164	00163	Dual Scale Unlock Bag Mode	Initial value : 0 ; 0 : Asynchro Unlock; 1 : Synchro Unlock1 ; 2 : Synchro Unlock2
40165	00164	Conveyor Running Timer <b>t13</b>	Initial value : 0 ; range: 0~99.9 . (unit s )
40166	00165	Conveyor running time <b>t 14</b>	Initial value : 0 ; range: 0~99.9 . (unit s )
40167	00166	Next Lock Bag Start Delay Time <b>t 15</b>	The initial value is : 0 ; A weighing scale B the front end of the conveyorin the rear end of the conveyor, the bag and simultaneously release ON/OFF is <b>not</b> <b>simultaneously loose bags.</b> If the addition is complete loose bags B scale, the scale is not loose bags A, B scale case again a bag

			clip, etc. <b>A</b> scale to loose the bag after the addition was completed, the conveyor and the start delay time <b>t15</b> after <b>B</b> Scale It is the feeding.
40168  40200	00167  00199	Reserved	
Product par	ameter item		
Recipe para	meters ( non- j	public parameters)	
40201	00200	, Target	
40202	00201	Turget	
40203	00202	Coarse Flow Remains	
40204	00203		
40205	00204	, Medium Flow Remains	
40206	00205	Wedduin Flow Remains	
40207	00206	- Free Fall	
40208	00207		Weight value writing range : $\leq$ maximum range
40209	00208	Over Limit Velue	weight value writing lange . < maximum lange
40210	00209	Over Limit Value	-
40211	00210	TT 1 T' '2 X7 1	
40212	00211	- Under Limit Value	
40213	00212	Noor Zoro Dond	
40214	00213	- Near Zero Band	
40215	00214	Start-Up Weight(patting	
40216	00215	start weight)	
402 17	002 16	Filling Start Delay	Initial value: <b>0.5</b> ; range: <b>0</b> to <b>9 9 .9</b> . (unit <b>s</b> )
402 18	002 17	COMP.Inhibit Timer(Co-F)	Initial value: <b>0.9</b> ; range: <b>0</b> to <b>99.9</b> . (unit s)
402 19	002 18	COMP.Inhibit Timer(Me-F)	Initial value: <b>0.9</b> ; range: <b>0</b> to <b>99.9</b> . (unit s)
402 20	002 19	COMP.Inhibit Timer(Fi-F)	Initial value: <b>0.9</b> ; range: <b>0</b> to <b>99.9</b> . (unit s)
402 21	002 20	OVER/UNDER Alarm Timer	. Initial value: 10; range: 0 to 9. 9.9. (unit s )
402 22	002 21	Result Waiting Timer	Initial value: <b>0. 5</b> ; range: <b>0 to 9 9 .9</b> . (unit <b>s</b> )
402 23	002 22	Discharge duration <b>t</b> 7	Initial value: <b>0.5</b> ; range: <b>0 to 9 9 .9</b> . (unit <b>s</b> )

402 24	002 23	Unlock Bag Pre-Delay	Initial value: <b>0.5</b> ; range: <b>0 to 9 9 .9</b> . (unit <b>s</b> )	
		Timer		
40225	00224	Unlock Bag Pre-Delay Timer	Initial value: <b>0.5</b> ; range: <b>0 to 9 9 .9</b> . (unit <b>s</b> )	
40226	00225	Jog Flow ON/OFF	Initial value: <b>0</b> ; Range : <b>0~ 1</b> ( <b>0 :</b> Off ; <b>1 :</b> On).	
40 227	00 226	Jog Flow-ON Timer	Initial value: <b>0.5</b> ; range: <b>0</b> ~ <b>9 9 .9 .</b> (unit <b>s</b> )	
40228	00227	Jog Flow-OFF Timer	Initial value: <b>0.5</b> ; range: <b>0</b> ~ <b>9 9 .9 .</b> (unit <b>s</b> )	
40229	00228	Compensation Times	Initial value: 1 ; Range: 1~99.	
40230	00229	Flow-ON Times	Initial value: <b>0.5</b> ; range: <b>0</b> ~ <b>9 9 .9</b> . (unit s )	
402 31	00230	Flow-OFF Times	Initial value: <b>0.5</b> ; range: <b>0 ~ 9 9 .9</b> . (unit <b>s</b> )	
402 32	00231	Reference Samples PCS	Initial value: 1 ; Range: 1~99	
40233	00232	Correction Effective Range	Initial value: <b>2.0</b> ; range: <b>0 ~ 9.9 .</b> (Unit: %)	
402 34	002 33	Correction Percentage	Initial value: 2; Optional: 0100%; corrected correction 150%; 2- 25%correction.	
402 35	002 34	Patting Mode	Initial value: 0 0 : Disable; 1 : After Waiting ; 2 : When Filling ; 3 : All time	
40236	00235	Patting Times(Filling)	Initial value: <b>0</b> ; range: <b>0</b> ~ <b>9 9</b> .	
40237	00236	Patting Times(Waiting)	Initial value: <b>4</b> ; Range: <b>0</b> ~ <b>9 9</b> .	
40238	00237	Patting Start Delay Timer	Initial value: <b>0.5</b> ; range: <b>0 ~ 9 9 .9</b> . (unit <b>s</b> )	
402 39	0023 8	Patting ON Timer(Level Signal)	Initial value: <b>0.5</b> ; range : <b>0</b> ~ <b>9 9 .9 .</b> (unit <b>s</b> ) The effective time of each shot of the bag during the bag	
40240	00239	Patting OFF Timer(Level Signal)	Initial value: <b>0.5</b> ; range : <b>0</b> ~ <b>9 9 .9</b> . (unit <b>s</b> ) Invalid time for each shot of the bag during the bag	
40241	00240	Extra ON Timer	Initial value: <b>0</b> ; range: <b>0</b> ~ <b>9 9</b> . <b>9</b> . (unit <b>s</b> )	
40242	00241	Continuous discharge times(Time of single scale/combinations)	Initial value: 1; Range: $0 \sim 99$ . That is: in the metering bucket mode, the loose 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.	

40 243	00 242	PLC-OverLimit Value	4 bytes, unsigned number	
40 244	00 243			
40 245	00 244	PLC-UnderLimit Value	4 bytes, unsigned number	
40 246	00 245		4 bytes, unsigned number	
40 247	00 246	PLC-UpperLimit Value	4 bytes, unsigned number	
40 248	00 247	PLC-OpperLinit value	4 bytes, unsigned number	
40 249	00 248	PLC-LowerLimit Value	4 bytes, unsigned number	
40 250	00 249		• bytes, unsigned number	
40 251	00 250	Upper limit output flag	4 bytes, 0 or 1	
40 252	00 251	Opper mint output hag	4 bytes, 0 of 1	
40 253	00 252	Lower limit output flag	4 bytes, 0 or 1	
40 254	00 253	Lower mint output hag	4 bytes, 0 of 1	
40255	00254	Sewing Start Delay Timer	Initial value: <b>0.5</b> ; range: <b>0</b> to <b>99.9</b> . (unit s)	
40256	0 0255	Sewing ON Timer	Initial value: <b>4.0</b> ; range: <b>0</b> to <b>9 9 .9 .</b> (unit <b>s</b> )	
40257	0 0256	Cutter ON Timer	Initial value: <b>0.5</b> ; range: <b>0</b> to <b>99.9</b> . (unit <b>s</b> )	
40258	0 0257	Sewing Stop Delay	Initial value: <b>0.5</b> ; range: <b>0</b> to <b>99.9</b> . (unit s)	
402 59	002 58			
 40300	 00299	Reserved		
System parameter (public pa		Darameter)		
40 301	00 300	Recipe ID	Initial value: 1; Range: 1-20.	
40 302	00301	Filling Filter Level	Initial value: 4 ; Range: 0 to 9.	
40 303	00302	Discharge Process Filter	Initial value: <b>3</b> ; Range: <b>0 to 9</b> .	
40 304	00303	Waiting Process Filter	Initial value: 5 ; Range: 0 to 9.	
40305	00304	Batch	Initial value: <b>0</b> ; Range: <b>0</b> ~ <b>50000</b>	
40 306	00 305	Result Checking Mode	Initial value: 0 ; Range: 0~1. 0 : a stable value ; 1 : Delay Timer .	
40307	00306	Auto Zero Interval	Initial value: <b>0</b> ; range : <b>0-99</b> . The current weight is cleared after several packages have been completed. When set to <b>0</b> , it means that it is not cleared during operation.	

40 308	00307	Running Stable Timeout	Initial value: <b>0</b> ; range : <b>0</b> to <b>9 9 .9</b> . (unit <b>s</b> )	
40 309	00 308	OVER/UNDER ON/OFF	Initial value: <b>0</b> ; <b>1</b> : On ; <b>0</b> : Off .	
40 310	00 309	OVER/UNDER Pause	Initial value: <b>0</b> ; <b>1</b> : On ; <b>0</b> : Off .	
40 311	00 310	Add toTotal When Manual Discharge	Initial value: <b>0</b> ; <b>1</b> : On ; <b>0</b> : Off .	
40 312	00 311	Result Holding	Initial value: <b>0</b> ; <b>1</b> : On ; <b>0</b> : Off .	
40313	00312	Coding Device ON/OFF	Initial value: <b>0</b> ; <b>1 :</b> On ; <b>0 :</b> Off .	
40314	00313	Coding Start Delay Timer	Initial value: <b>0.5</b> ; range: <b>0 to 9 9 .9</b> . (unit <b>s</b> )	
40315	00314	Coding Duration Timer	Initial value: <b>0.5</b> ; range: <b>0 to 9 9 .9</b> . (unit <b>s</b> )	
40316	00315	Not Allow Fill/Discharge When Coding	Initial value: <b>OFF (0)</b> <b>ON</b> : The discharge output or feed output is not allowed to start during the coding process. <b>OFF</b> : Turn off this feature.	
40317	00316	Choice of Gross and Net Packing mode without Hopper	<ul> <li>Initial value: 1 (net weight)</li> <li>0: No bucket scale gross weight bagging mode (start directly after bagging : feeding)</li> <li>1: Net weightless bagging mode without bucket scale (wait for the system to be stable after peeling and then start feeding)</li> </ul>	
40318	00317	Reserved		
40319	00318			
 40400	 00399	Reserved		
Recipe target va	alue parame	ter item		
40501	00500	Recipe 1 target value	Initial value : 0	
40502	00501			
40503	00502	Desing 2 target l	Initial value • 0	
40504	00503	Recipe 2 target value	Initial value : 0	
40505	00504	Design 2 to rest 1	Initial value of	
40506	00505	Recipe 3 target value	Initial value : 0	
40507	00506	Design 4 to rest 1	Initial value of	
		Recipe 4 target value	Initial value : 0	
40508	00507			

40510	00509		
40511	00510		
40512	00511	Recipe 6 target value	Initial value : 0
40513	00512		
40514	00513	Recipe 7 target value	Initial value : 0
40515	00514		Inizial Inches - O
40516	00515	Recipe 8 target value	Initial value : 0
40517	00516	Desire O terrest value	Initial value : 0
40518	00517	Recipe 9 target value	
40519	00518	Recipe 10 target value	Initial value : 0
40520	00519	Keepe to target value	
40521	00520	Recipe 1 1 target value	Initial value : 0
40522	00521	Keepe i i target value	
40523	00522	Recipe 1 2 target value	Initial value : 0
40524	00523	Keepe i 2 target value	
40525	00524	Recipe 1 3 target value	Initial value : 0
40526	00525		
40527	00526	Recipe 1 4 target value	Initial value : 0
40528	00527	Theorpe I Thunger turne	
40529	00528	Recipe 1 5 target value	Initial value : 0
40530	00529		
40531	00530	Recipe 1 6 target value	Initial value : 0
40532	00531		
40533	00532	Recipe 1 7 target value	Initial value : 0
40534	00533		
40535	00534	Recipe 1 8 target value	Initial value : 0
40536	00535	1 - 3	
40537	00536	Recipe 1 9 target value	Initial value : 0
40538	00537	1	
40539	00538	Recipe 20 target value	Initial value : 0
40540	00539	1	
4 0 541	0 0 540	Reserved	
•••••	•••••		

40600	00599		
Historical cu	mulative par	ameter	
40601	00600	Recipe 1 cumulative	Write <b>0</b> to clear the cumulative number and weight
40602	00601	weight	of the formula
40603	00602	Recipe 1 cumulative	Write <b>0</b> to clear the cumulative number and weight
40604	00603	count	of the formula
40605	00604	Recipe 2 cumulative	Write <b>0</b> to clear the cumulative number and weight
40606	00605	weight	of the formula
40607	00606	Recipe 2 cumulative	Write <b>0</b> to clear the cumulative number and weight
40608	00607	times	of the formula
40609	00608	Recipe <b>3</b> cumulative	Write <b>0</b> to clear the cumulative number and weight
40610	00609	weight	of the formula
40611	00610	Recipe <b>3</b> cumulative	Write <b>0</b> to clear the cumulative number and weight
40612	00611	times	of the formula
40613	00612	Recipe 4 cumulative	Write <b>0</b> to clear the cumulative number and weight
40614	00613	weight	of the formula
40615	00614	Recipe 4 cumulative	Write <b>0</b> to clear the cumulative number and weight
40616	00615	times	of the formula
40617	00616	Recipe 5 cumulative	Write <b>0</b> to clear the cumulative number and weight of the formula
40618	00617	weight	
40619	00618	Recipe 5 cumulative	Write <b>0</b> to clear the cumulative number and weight
40620	00619	times	of the formula
40621	00620	Recipe 6 cumulative	Write <b>0</b> to clear the cumulative number and weight
40622	00621	weight	of the formula
40623	00622	Recipe 6 cumulative	Write <b>0</b> to clear the cumulative number and weight
40624	00623	times	of the formula
40625	00624	Recipe 7 cumulative	Write <b>0</b> to clear the cumulative number and weight
40626	00625	weight	of the formula
40627	00626	Recipe 7 cumulative	Write <b>0 to</b> clear the cumulative number and weight
40628	00627	times	of the formula
40629	00628	Recipe 8 cumulative	Write <b>0 to</b> clear the cumulative number and weight
40630	00629	weight	of the formula
40631	00630		

40632	00631	Recipe <b>8</b> cumulative times	Write <b>0 to</b> clear the cumulative number and weight of the formula	
40633	00632	Recipe 9 cumulative	Write <b>0 to</b> clear the cumulative number and weight	
40634	00633	weight of the formula		
40635	00634	Recipe 9 cumulative	Write <b>0</b> to clear the cumulative number and weight	
40636	00635	times	of the formula	
40637	00636	F Recipe <b>10</b> cumulative	Write <b>0</b> to clear the cumulative number and weight	
40638	00637	weight	of the formula	
40639	00638	Recipe <b>10</b> cumulative	Write <b>0</b> to clear the cumulative number and weight	
40640	00639	times	of the formula	
40641	00640	Recipe 11 cumulative	Write <b>0</b> to clear the cumulative number and weight	
40642	00641	weight	of the formula	
40643	00642	Recipe 11 cumulative	Write <b>0</b> to clear the cumulative number and weight	
40644	00643	times	of the formula	
40645	00644	Recipe <b>12</b> cumulative	Write <b>0 to</b> clear the cumulative number and weight of the formula	
40646	00645	weight		
40647	00646	Recipe <b>12</b> cumulative	Write <b>0</b> to clear the cumulative number and weight of the formula	
40648	00647	times		
40649	00648	Recipe 13 cumulative	Write <b>0 to</b> clear the cumulative number and weight	
40650	00649	weight of the formula		
40651	00650	Recipe <b>13</b> cumulative	Write <b>0</b> to clear the cumulative number and weight	
40652	00651	times	of the formula	
40653	00652	Recipe 14 cumulative	Write <b>0</b> to clear the cumulative number and weight	
40654	00653	weight	of the formula	
40655	00654	Recipe 14 cumulative	Write <b>0 to</b> clear the cumulative number and weight	
40656	00655	count	of the formula	
40657	00656	Recipe 15 cumulative	Write <b>0</b> to clear the cumulative number and weight	
40658	00657	weight	of the formula	
40659	00658	Recipe 15 cumulative	Write <b>0</b> to clear the cumulative number and weight	
40660	00659	times	of the formula	
40661	00660	Recipe <b>16</b> cumulative	Write <b>0</b> to clear the cumulative number and weight	
40662	00661	weight	of the formula	
40663	00662			

40664	00663	Recipe <b>16</b> cumulative count	Write <b>0 to</b> clear the cumulative number and weight of the formula	
40665	00664	Recipe 17 cumulative	Write <b>0</b> to clear the cumulative number and weight	
40666	00665	weight	of the formula	
40667	00666	Recipe 17 cumulative	Write <b>0</b> to clear the cumulative number and weight	
40668	00667	count	of the formula	
40669	00668	Recipe 18 cumulative	Write <b>0 to</b> clear the cumulative number and weight	
40670	00669	weight	of the formula	
40671	00670	Recipe 18 cumulative	Write <b>0</b> to clear the cumulative number and weight	
40672	00671	times	of the formula	
40673	00672	Recipe 19 cumulative	Write <b>0</b> to clear the cumulative number and weight	
40674	00673	weight	of the formula	
40675	00674	Recipe 19 cumulative	Write <b>0</b> to clear the cumulative number and weight	
40673	00675	times	of the formula	
40677	00676	Recipe 20 cumulative	Write <b>0 to</b> clear the cumulative number and weight of the formula	
40678	00677	weight		
40679	00678	Recipe 20 cumulative	Write <b>0 to</b> clear the cumulative number and weight of the formula	
40680	00679	times		
40681	00680	User <b>0</b> cumulative	Write <b>0</b> to clear the accumulated number and weight	
40682	00681	weight of the user		
40683	00682	User <b>0</b> cumulative	Write <b>0</b> to clear the accumulated number and weight	
40684	00683	times	of the user	
40685	00684	User 1 cumulative	Write <b>0</b> to clear the accumulated number and weight	
40686	00685	weight	of the user	
40687	00686	User 1 cumulative	Write <b>0 to</b> clear the accumulated number and weight	
40688	00687	count	of the user	
40689	00688	User <b>2</b> cumulative	Write <b>0 to</b> clear the accumulated number and weight	
40690	00689	weight	of the user	
40691	00690	User 2 cumulative	Write <b>0 to</b> clear the accumulated number and weight	
40692	00691	times	of the user	
40693	00692	User <b>3</b> cumulative	Write <b>0 to</b> clear the accumulated number and weight	
40694	00693	weight	of the user	
40695	00694			

40696	00695	User <b>3</b> cumulative times	Write <b>0</b> to clear the accumulated number and weight of the user
40697	00696	User 4 cumulative	Write <b>0 to</b> clear the accumulated number and weight
40698	00697	weight of the user	
40699	00698	User 4 cumulative	Write <b>0</b> to clear the accumulated number and weight
40700	00699	times	of the user
40701	00700	User 5 cumulative	Write <b>0</b> to clear the accumulated number and weight
40702	00701	weight	of the user
40703	00702	User 5 cumulative	Write <b>0</b> to clear the accumulated number and weight
40704	00703	times	of the user
40705	00704	User 6 cumulative	Write <b>0</b> to clear the accumulated number and weight
40706	00705	weight	of the user
40707	00706	User 6 cumulative	Write <b>0</b> to clear the accumulated number and weight
40708	00707	times	of the user
40709	00708	User 7 cumulative	Write <b>0</b> to clear the accumulated number and weight
40710	00709	weight	of the user
40711	00710	User 7 cumulative	Write <b>0</b> to clear the accumulated number and weight
40712	00711	times	of the user
40713	00712	User 8 cumulative	Write <b>0</b> to clear the accumulated number and weight
40714	00713	weight	of the user
40715	00714	User 8 cumulative	Write <b>0</b> to clear the accumulated number and weight
40716	00715	times	of the user
40717	00716	User 9 cumulative	Write <b>0</b> to clear the accumulated number and weight
40718	00717	weight	of the user
40719	00718	User 9 cumulative	Write <b>0</b> to clear the accumulated number and weight
40720	00719	times	of the user
ON/OFFing	g custom parar	neter item	
40801	00800	The digital input port <b>1</b> isdefined .	write: Write function corresponding value . If <b>IN is</b> defined
40802	00801	The digital input port <b>2</b> isdefined .	as running, write <b>1</b> in the corresponding register of <b>IN</b> .
40803	00802	The digital input port <b>3</b> <b>is</b> defined .	read: Returns the current ON/OFF custom state

40804	00803	The digital input port <b>4</b> <b>is</b> defined .	
40805	00804	Digital input port <b>5</b> definition	
40806	00805	Digital input port <b>6</b> definition	
4080 7	0080 6	Digital input port 7definition	
4080 8	0080 7	Digital input port <b>8</b> definition	
408 09	008 08	The digital output port <b>1 is</b> defined.	
408 10	008 09	The digital output port <b>2 is</b> defined.	
408 11	008 10	The digital output port <b>3 is</b> defined.	
4081 2	008 11	The digital output port <b>4 is</b> defined.	
4081 3	0081 2	The digital output port <b>5 is</b> defined.	write:
4081 4	0081 3	The digital output port <b>6 is</b> defined.	Write function corresponding value . If <b>OUT</b> isdefined as running, write 1 in the corresponding
4081 5	0081 4	The digital output port <b>7 is</b> defined.	register of <b>OUT.</b> read:
408 16	0081 5	The digital output port <b>8 is</b> defined.	Returns the current ON/OFF custom state .
408 17	008 16	The digital output port <b>9 is</b> defined.	
408 18	008 17	The digital output port <b>10 is</b> defined.	
408 19	008 18	The digital output port <b>11 is</b> defined.	
408 20	008 19	The digital output port <b>12 is</b> defined.	
40821	00820	Output test	<ul> <li>Note: The ON/OFF can be written only when the ON/OFF test ON/OFF is turned on.</li> <li>Write: The ON/OFF test ON/OFF can be written in the open state, and the output from the low to the high port corresponds to the</li> </ul>

4 0 8 23	008 22	Reserved	invalid for input. (st	arting the ON/OFF test state)		
409 70	00 969					
40971	0970	Dword Format	Set the <b>MODBUS</b> h	igh and low byte order.		
40972	00971	Server Port	Range : 1 - 65535			
40973	00972	IP address 1				
4097 4	00973	IP address 2	Initial value: 107 16	8 101 246		
4097 5	0097 4	IP address 3	Initial value: <b>192.168. 101 . 246</b>			
4097 6	0097 5	IP address 4				
4097 7	0097 6	MAC address 1	BC6641 9* ** **, only the last three digits are			
4097 8	0097 7	MAC address 2				
4097 9	0097 8	MAC address 3				
4098 0	0097 9	MAC address 4	allowed to be modified			
4098 1	0098 0	MAC address 5				
40982	0098 1	MAC address 6				
40983	00982	Additional board type For debugging use only(Reserved)				
The following	content is rea	ad-only (function code: 0	x01)			
00001	0 0000	OFF : Stop; ON : Run				
00002	0 0001	OFF : unstable; ON : sta	OFF : unstable; ON : stable			
00003	0 0002	OFF : Normal; ON : Overflow				
00004	0 0003	<b>OFF</b> : positive sign; <b>ON</b> : negative sign ( symbol of current display weight )				
0 0005	0 0004	<b>OFF</b> : Non-zero; <b>ON</b> : Z	ero			
0000 6	0 000 5	Descent 1				
 00016	 00015	Reserved				
The following	content is rea	adable and writable (read	l function code: 0x01	, write function code: 0x05)		

				Read out astheir respective ON/OFFstates
00018	00017	OVER/UNDER ON/OFF / / runtime write does not take effect		
00019	00018	OVER/UNDER Pause / / runtime write does not take effect		
00020	00019	Jog Flow ON/OFF		
00021	00020	Auto Print // runtime write does not take effect		
00022	00021			
 00031	 00030	Reserved		
00032	00031	Reset all ( excluding calibration )		<ul> <li>Write ON isvalid andOFF</li> <li>isinvalid .</li> <li>Read as OFF .</li> <li>It can be written at runtime but does not take effect. It needs to stop running and write is valid.</li> </ul>
00033	00032	Reset all		
00034	00033	Reset Calibration Parameter		
00035	00034	Reset Sys&Com Paramter t (System)		
00036	00035	Reset Recipe Parameter		
00037	00036	Reset I/O Module		_
00038	00037	System parameter reset (advanced)		
00039	00038	Execute Recovery From Backup		
00040	00039	Execute Delete Backup		
00041  000 45	0 0040  0 0044	Reserved		
0 00 4 6	0 00 4 5	start		Pulse input type . Write <b>ON is</b> valid and <b>OFF</b> isinvalid . Read out as <b>OFF</b>
0 00 4 7	0 00 4 6	stop		
0 00 4 8	0 00 4 7	Emergency stop		
0 00 4 9	0 00 4 8	Zeroing	Runtime write does not take effect	

0 0050	0 00 4 9	Clear alarm				
0 0051	0 0050	Manual Discharge				
0 0052	0 0051	Manual Fine Flow Runtim				
00053	00052	Manual Coarse Flow e writed				
0 00 54	00053	manual feeding once oes not				
0 00 55	0 00 54	Clear All Recipes ACUM effect				
000 56	0 00 55	Clear Choose Recipes ACUM				
0 00 57	0 00 56	Gross / net weight mode ON/OFFing		<b>ON</b> is thenet weight , <b>OFF</b> is thegross weight		
00058	0 00 5 7	Bag Lock/Unlock Request				
00059	00058	Clear All User ACUM				
00060	00059	Clear Choose User ACUM				
00061  000 80	0 0060  0 0079	Reserved				
00081	00080	ON/OFFing test ON/OFF : Enter the ON/OFF test when writing <b>ON</b> ; exit when writing <b>OFF</b> . Not writable at runtime				
0 0082	00081	When IN 1 is valid, read is ON ; if it invalid, it is OFF .	Does not take effect when writing.			
0 0083	0 0082	When IN <b>2 is</b> valid, read is <b>ON</b> ; if it invalid, it is <b>OFF</b> .				
000 84	0 0083	When IN <b>3 is</b> valid, read is <b>ON</b> ; if it invalid, it is <b>OFF</b> .				
00085	000 84	When IN <b>4 is</b> valid, read is <b>ON</b> ; if it invalid, it is <b>OFF</b> .				
00086	00085	When IN <b>5 is</b> valid, read is <b>ON</b> ; if it invalid, it is <b>OFF</b> .				
00087	000 86	When IN <b>6 is</b> valid, read is <b>ON</b> ; if it invalid, it is <b>OFF</b> .				
0 0 0 88	00087	When IN <b>7 is</b> valid, read is <b>ON</b> ; if it is invalid, it is <b>OFF</b> .				
0 0089	00088	When IN <b>8 is</b> valid, read is <b>ON</b> ; if it is invalid, it is <b>OFF</b> .				
0 0090	0 0089	Write <b>ON</b> , Out <b>1</b> is valid; when the write is <b>OFF</b> , is invalid.				
000 91	0 0090	Write <b>ON</b> , Out <b>2</b> is valid; when the write is <b>OFF</b> , is invalid.				
00092	000 91	Write ON, Out 3 is valid; when the write is OFF, is invalid.				

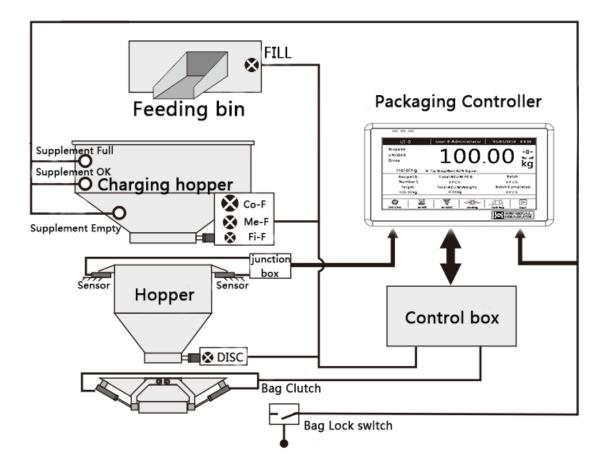
000 93	0 0092	Write <b>ON</b> , Out <b>4</b> is valid; when the write is <b>OFF</b> , is invalid.
00094	000 93	Write ON, Out 5 is valid; when the write is OFF, is invalid.
00095	00094	Write ON, Out 6 is valid; when the write is OFF, is invalid.
00096	00095	Write ON, Out 7 is valid; when the write is OFF, is invalid.
000 97	0 0096	Write ON, Out 8 is valid; when the write is OFF, is invalid.
00098	000 97	Write ON, Out 9 is valid; when the write is OFF, is invalid.
00099	00098	Write ON, Out 10 is valid; when the write is OFF, is invalid.
00100	00099	Write ON, Out 11 is valid; when the write is OFF, is invalid.
00101	00100	Write ON, Out 12 is valid; when the write is OFF, is invalid.

## 6. Automatic bagging process

The GM9907 bagging controller automatically controls the entire bagging process of fast, medium and slow feeding and unloading in the automatic bagging state. Supports a variety of modes including bucket, bucketless scale, ton pack scale, valve port scale and PLC. The scale structure and working mode are selected in the system and communication parameters.

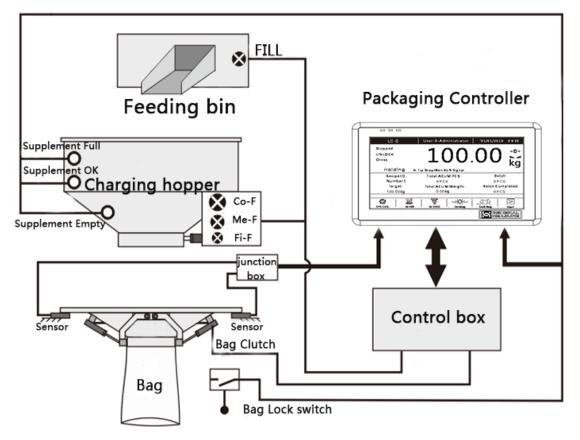
### 6.1 with a single scale hopper

In this mode, the material is fed from the preparation hopper to the measuring hopper through the feeding mechanism (fast, medium and slow), and the weight sampling of the metering control process is completed in the measuring hopper (the weighing sensor is mounted on the measuring hopper). After the metering is completed, the material is discharged into the package through the unloading mechanism on the measuring hopper. Its structure is shown in the following figure:



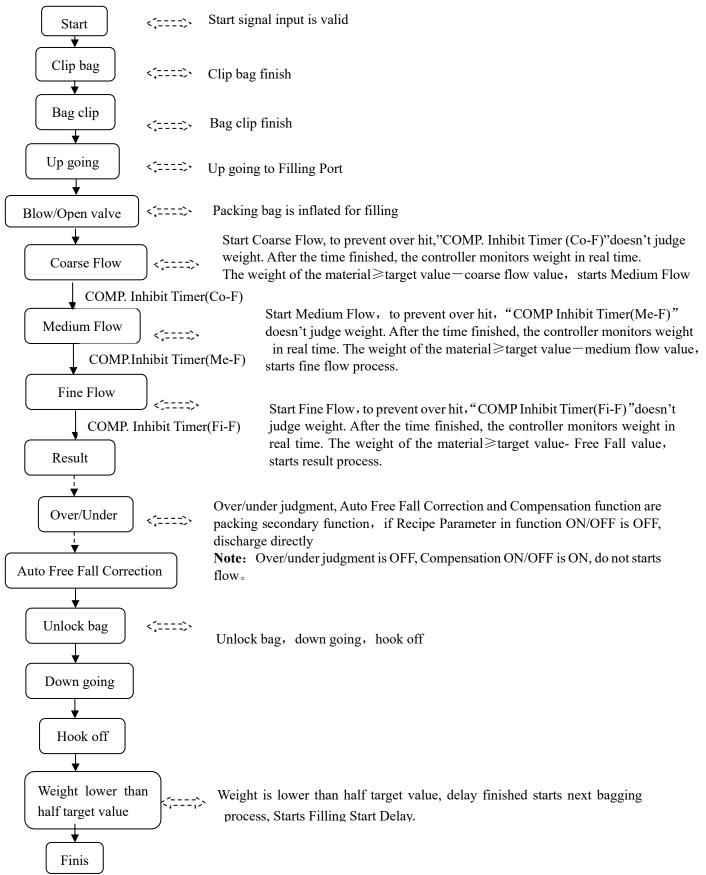
## 6.2 No metering hopper

In this mode, the material is directly fed into the package from the hopper through the feeding mechanism (fast, medium, and slow), and the weight sampling of the metering control process is completed in the package (the weighing sensor is mounted on the hopper). After the metering is completed, the meter controls the loose bag directly. Its structure is shown in the following figure:



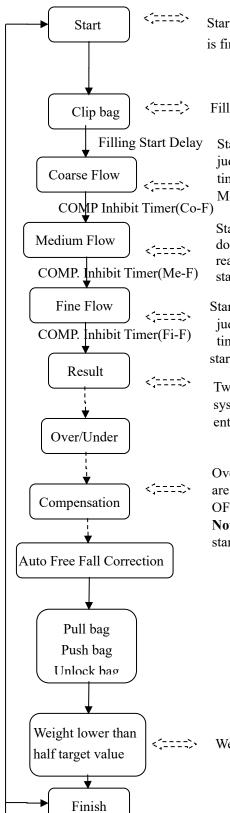
## 6.3 Tons of package scale

#### **Process Description:**



#### 6.4 Valve port scale

### **Process Description:**



Start signal input is valid, controller starts Filling Start Delay. When delay time is finished, starts coarse flow.

Filling after clip bag finished

Start Coarse Flow, to prevent over hit, "COMP. Inhibit Timer (Co-F)"doesn't judge weight. After the time finished, the controller monitors weight in real time. The weight of the material≥target value−coarse flow value, starts Medium Flow process.

Start Medium Flow, to prevent over hit, "COMP Inhibit Timer(Me-F)" doesn't judge weight. After the time finished, the controller monitors weight in real time. The weight of the material≥target value−medium flow value, starts fine flow process.

Start Fine Flow, to prevent over hit, "COMP Inhibit Timer(Fi-F)" doesn't judge weight. After the time finished, the controller monitors weight in real time. The weight of the material≥target value- Free Fall value, starts result process.

Two ways of Result Checking Mode: Stable Status and Delay Timer (select in system and communication), according to selected mode finish result process enters to Over/Under and Auto Free Fall Correction process.

Over/under judgment, Auto Free Fall Correction and Compensation function are packing secondary function, if Recipe Parameter in function ON/OFF is OFF, discharge directly

Note: Over/under judgment is OFF, Compensation ON/OFF is ON, do not starts flow  $_{\circ}$ 

Weight is lower than half target value, packing is finished

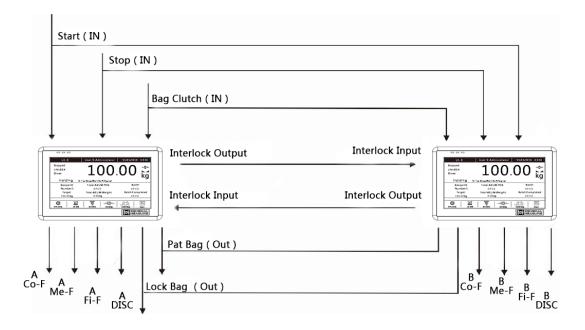
## 6.5 PLC mode

In the PLC mode, the status displayed on the main page of the meter is changed to: fast add, medium add, slow add, over tolerance, undershoot, upper limit, lower limit, zero zone. When the weighing process starts , the quick addition, medium addition, and slow addition output are effective, and the main interface displays the fast addition, medium addition, and slow addition in sequence. When the weighing value > target value + excess value, the out-of-tolerance output is valid. The under output is valid when the weighing value < target value - underbalance value. 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. When the weighing value < zero zone value, the zero zone output is valid.

## 6.6 double scale interlocking bagging mode

The two controllers can be combined into two pairs of buckets and double bucketless scales by setting and wiring. The two measuring buckets can be weighed at the same time and connected to the same pocket mechanism. The two scales can be fed at the same time to improve the bagging speed. Setting 2 aspects, the working mode of the controller system and the communication parameter scale body structure are two controllers: interlocking **A** scale and interlocking **B** scale. **Note: The pockets are delayed by two meters to be set the same**. Its structure is shown in the following figure:

Refer to the following figure for ON/OFFing wiring:



If the scale body mode selects the double bucket scale interlock mode, the target values of the **A** scale and the **B** scale should be set separately, the quick addition, the medium addition value, and the drop value, and the materials are separately measured from the storage hopper through the two feeding mechanisms. Feeding in the bucket (fast, medium and slow feeding), under the operating state, it can independently control the feeding speed of **A** scale and **B** scale, the whole bagging process of unloading and automatic loose bag. **The A** and **B** scales are first quantitatively completed before the unloading process.

Pocket

**There are buckets:** A scale or **B** scale, first judge the pocket signal before unloading, start the pocket delay when the pocket signal is valid, the mechanism clamps the bag after the delay is over , and then starts the unloading

action, who is **A** and **B** scale First, quantify who will discharge first. If one is discharging scale, the other scale even quantitatively complete, also need to wait for the next bag-scale signal is valid before unloading. **No bucket** : judge the pocket signal before feeding. When the pocket signal is valid, both scalesstart the pocket delay. After the delay , the mechanism clamps the bag. After the bag is completed, the delay before feeding is started to avoid leakage of materials. After the delay time of the bag is reached, the meter judges the stability, peels after stabilization, and the weight of the bag is used as the tare weight. Then the meter changes from the gross weight state to the net weight state and starts the feeding process.

#### • Loose bag

There is a bucket : the meter judges whether the material in the A scale or the B scale hopper is lower than the near zero value . If it is lower, the timer discharge delay is started . After the delay time is reached, the meter closes the unloading and starts the loose bag delay. The loose bag is automatically released after the delay of the loose bag.

**No bucket:** Start the loose bag start delay after the setting , and automatically release the bag after the delay . (If there is a bag patting function, start the loose bag start delay after the bag is finished ). The meter controls the conveyor signal output and starts the conveyor.

## 7. Motor working process

#### 7.1 Motor feeding section

#### 7.1.1 Stepper motor feeding

Stepper motor mode control feed door ON/OFF: The ON/OFF quantity involved is: (feed pulse output) / (feed direction signal), (feed gate closes in place), (signal in-position signal type determines). Take the process of fast feeding and slow adding as an example:

• Fast addition process: controller control (motor rotation direction signal) output, to ensure that the motor rotation direction is the door opening direction, then (feed pulse output) according to the set feeding motor frequency to output pulses, control the feeding stepper motor to turn in the door opening direction, (When the number of feeding pulse output reaches the set value, the output pulse signal is stopped, and the feeding door stops rotating. At this time, it is in the fast-adding state. Then the meter changes (motor rotation direction signal) output to the door closing direction.

• In the process of adding: (feed pulse output) according to the set feeding motor frequency to output pulses, control the feeding stepper motor to turn in the closing direction, (the feeding pulse output) reaches the set value and stops outputting the pulse signal, the feeding gate Stop turning, this time is in the middle state.

• Slow addition process: (feed pulse output) according to the set feed motor frequency to output pulses, control feeding stepper motor continues to turn in the closing direction, (feed pulse output) number reaches the set value and then stop output pulse signal, feeding door stops rotating, in this case the slow feed state.

• Feeding off: (feeding pulse output) According to the set feeding motor frequency, the pulse is output, and the feeding stepping motor continues to rotate in the closing direction until the detection (feeding door closes in place). The input pulse is stopped after the input is valid, and the feeding gate stops. Rotate, at this point the feed is completely closed.

• Note: If the closing process time exceeds the **feeding door closing timeout time** set by the feeding closing timeout time, the meter has not detected **(the feeding door is closed in place)**, then the meter will stop **(feed pulse output)**, and the alarm **feeding will close the timeout**.

#### 7.1.2 Ordinary motor feeding

Ordinary motor mode control feed door ON/OFF: The I/O Module involved is: (adding material to open the door) / (adding material to close the door), (the feeding door is closed in place).

Take the process of fast feeding and slow adding as an example:

• Coarse feeding process: The feeding process starts after the delay time. The controller first makes the (feeding and opening) signal output valid, the effective time is the coarse opening time , and the coarse feeding process begins.

• In the process of medium feeding: When the weight of the material in the hopper  $\geq$  the single scale target value - fast increase the advance amount, the signal output (feeding closes) is valid, and the effective time is "coarse opening time - medium opening time".

• Fine feeding process: When the material weight in the hopper ≥ single scale target value - medium advance amount, the (feeding closes) signal output is valid, the effective time is "medium plus door opening time - fine plus door opening time"

• Feeding off: When the material weight in the hopper  $\geq$  single scale target value - slow plus advance, the (feed closing) signal output is valid until the feed door in-position signal is detected (the feed door is closed).

• Note: If the process of closing the door closing time exceeds the timeout addition, the controller has not been detected (entry doors closed in place), then the meter will stop (closed feed), addition and closing alarm timeout.

• Note: When the controller is started, it is necessary to check whether the feeding door and the discharging door are in the limit position. If it is not in the limit position, it will alarm and it will not start.

#### 7.2 motor pocket part

#### 7.2.1 stepper motor clip loose bag

Stepper motor mode control clip loose bag: The ON/OFF quantity involved is: (clip bag pulse output) / (clip bag direction signal) / (loose bag in place), ( signal is determined by the type of in-position signal ). Take the process of clamping the loose bag in the measuring bucket mode as an example:

• The bagging process: the controller control (clip bag direction signal) output, to ensure that the motor rotation direction is the bag direction, and then (clip bag pulse output) according to the set bag motor frequency to output pulses, control clip loose bag stepping The motor rotates in the direction of the pocket, and the number of pulses required to set the pocket is stopped after the number of pulses required to set the pocket mechanism is in the pocket state. Then the meter changes (the signal of the pinch pocket direction) and the output is in the direction of the loose bag.

• The loose bag process: (pinch bag pulse output) according to the set loose bag motor frequencyto output pulses, control the loose bag stepper motor to the direction of the loose bag, until the detection (loose bag in place) input is valid, stop output pulse signal In this case the bag is loose state. Note: If the loose bag process time exceeds the set loose bag process timeout period, the meter has not detected (the loose bag is in place), then the meter will stop output (clip bag pulse output), and the alarm will call the loose bag timeout.

#### 7.2.2 Motor double limit clip loose bag

Ordinary motor double limit control clip loose bag: The ON/OFF quantity involved is: (clip bag) / (loose bag), (clip bag in place) / (loose bag in place) . (The signal is determined by the type of signal in place) . Take the process of adding a loose bag in the measuring bucket mode as an example:

• Process folder bags: a signal meter output control clip folder bag to bag-bulk bags motor rotational direction, until a bag-detected signal and outputs the stop bit input signal is active folder bag, the bag clamp mechanism is in this case the bag sandwiched state. Note: If the bagging process time exceeds the set **bagging process timeout period**, the meter has not detected the bag in place signal, then the meter will stop outputting the bagging signal and the alarm **bagging process will time out**.

• Process loose bags: loose bags signal meter output control clip loose bulk bags of rotation of the motor direction of the bag, the bag in place until detecting loose bulk bags stops outputting the signal after the input signal is active, whereupon the bag-state mechanism is loose bags. Note: If the loose bag process time exceeds the set **loose bag process timeout period** and the meter hasnot detected the loose bag in-position signal, the meter will stop outputting the loose bag signaland the alarm **loose bag process will time out**.

#### 7.2.3 Motor single limit clip loose bag

Ordinary motor dual output control control clip loose bag: the amount of ON/OFF involved is: (clip bag) / (loose bag), (clip bag in place).

Take the process of adding a loose bag in the measuring bucket mode as an example:

• The bagging process: the meter controls the ON/OFF output signal, and the output signal until the detection of the pocket in-position signal input is valid, the output signal output is invalid, and the device pocket is realized.

• The loose bag process: the meter controls the ON/OFF output signal to realize the loose bag of the device, and the output signal duration is the loose bag output, and the output signal output is invalid.

• Note: If the bagging process time exceeds the set **bagging process timeout period** and the meter hasnot detected the bag in place signal, the meter will stop outputting and the alarm **bagging process will time out**.

### 7.3 Motor discharge part

#### 7.3.1 Stepper motor discharge

Stepper motor control discharge: The ON/OFF quantity involved is: (discharge pulse output), (discharge direction signal), (discharge opening door is in place).

Take the unloading as an example:

• Discharge opening process: controller control (discharge direction signal) output, to ensure that the motor rotation direction is the door opening direction, and then (discharge pulse output)according to the set discharge door motor frequency to output pulses, control the discharge stepper motor to the direction of rotation of the discharge door, stops outputting a pulse signal(output pulse discharge) the value of the number reaches the number of pulses required to set the discharge, the discharge mechanism is in the open state at this time

• Discharge closing process: After the discharge door is opened, if the weight of the controllerdetection hopper is lower than the **near zero value**, the **discharge delay time** will be started . After the discharge delay time is over, the controller change (discharge direction signal) output is closed. Direction, (discharge pulse output) according to the set discharge motor frequency to output the pulse, control the discharge stepper motor to rotate in the closing direction, until the detection (discharge door open in place) input is valid, stop output pulse signal, this The time is closed. Note: If the door closing process time exceeds the set **discharge closing timeout time**, themeter has not detected the door closing in-position signal (the discharge door is in place), then the meter will stop output (discharge pulse output), and the alarm unloading closes the door timeout .

#### 7.3.2 Motor single limit discharge

Ordinary motor forward and reverse single limit mode to control unloading: the ON/OFF quantity involved is: (unloading to open the door), (unloading to close the door in place).

Take the unloading process as an example:

• Discharge opening process: At the beginning of the unloading process, the controller output discharge signal controls the unloading motor to rotate in the direction of the discharge opening, and continuously **discharges the door opening output effective time** set discharge motor door opening signal output time, and then closes the unloading signal Output.

• Closing the discharge process: After the discharge door is opened, the controlleration near the hopper weight is less than zero, then the discharge start delay time, delay time after the discharge, the discharge door closing output signal, to control the discharge motor closing the discharge direction of rotation until the sensed discharge doors close off the discharge stops outputting the input signal is position signal active, whereupon the discharge door in a closed state. **Note** : If the discharge door closing process time exceeds the set **discharge closing timeout time**, the meter has not detected the discharge door closing in-position signal, then the meter will stop output and the alarm **discharge closes the timeout**.

#### 7.3.3 Motor double limit discharge

Ordinary motor forward and reverse double limit mode control discharge: the ON/OFF quantity involved is: (unloading) (unloading closes the door), (unloading closes the door) / (unloading opens the door in place).

Take the unloading process as an example:

• Discharge opening process: At the beginning of the unloading process, the controller output discharge signal controls the unloading motor to rotate in the direction of the unloading door opening, until the discharge door in-position signal input is detected to stop outputting the discharge signal, and the discharge door is discharged. Is open. Note: If the discharge door opening process time exceeds the set **discharge opening timeout** 

**time**, the meter has not detected the discharge door open door in-position signal, then the meter will stop output, and the alarm**unloading will open the door timeout**.

• Discharge closing process: After the discharge door is opened, The controlleration near the hopper weight is less than zero, then the discharge start delay time, delay time after the discharge, the discharge output closing signals to control the discharge motor is rotated in the closing direction of the discharge until the sensed discharge Close door input valid signal in place to close the discharge stop signal is output, when the discharge doors in a closed state.Note: If the discharge door closing process time exceeds the set **discharge closing timeout time**, the meter has not detected the discharge door closing in-position signal, then the meter will stop output and the alarm **discharge closes the timeout**.

#### 7.3.4 Motor one-way rotary discharge

Ordinary motor one-way rotation one-week single limit mode control discharge: the ON/OFF quantity involved is: **(unloading), (unloading closes the door in place)**.

Take the unloading process as an example:

• Discharge opening process: At the beginning of the unloading process, the controller output discharge signal controls the unloading motor to rotate in the direction of the discharge opening, and continuously sets the **discharge motor to open the door signal output time**, and then closes the discharge signal output.

• Discharging and closing process: After the unloading door is opened, if the controller detects that the weight in the hopper is lower than the near zero value, the discharge delay time isstarted. After the discharge delay time is over, the discharge signal is output, and the unloading motor continues to be controlled. closing the discharge direction of rotation until the sensed discharge doors closing the discharge stops outputting the input signal is position signal active, whereupon the discharge door in a closed state.

• Note : If the discharge door closing process time exceeds the **discharge closing timeout time**, the meter has not detected the discharge door closing in-position signal, then the meter will stop output and the alarm **discharge closes the timeout**.

#### 7.3.5 Motor debug function

- Motor debug function is for the convenience of users quickly determine the door size of coarse, medium, fine flow. Take door size of debug fine flow for example as below.
   Steps as below:
- 1: The left side of the interface is the current coarse, medium, fine pulse count. You can modify the data in fine flow pulse input box.
- 2: Click "Open fine flow" buttom, then controller ouput fine flow signal. User can determine whether the current pulse is appropriate by checking the opening size of the charging door. (Note: click "close fine flow" again to close fine flow.Controller can only be in a state, can not be in the state of coarse flow or medium flow at the same time),
- 3: If the pulse number has been modified, press the "save" button to save the modified pulse number, If do not want to save the modified pulse number, exit the motor debugging interface to restore the previous coarse ,medium , fine pulse number.

# 8. Peripheral workflow

## 8.1 patting bag

The amount of ON/OFF involved in the bag making function is: "patting bag".

The bag-making function consists of three optional processes: "Bag in the feeding", "Bag after setting", "and extra bag".

(Note: The extra bag function is not available in PLC mode).

If you want to use the bag making function, first set the bag shooting function in the bag parameters under the peripheral parameters. Different scale body structures are different depending on the optional bag mode.

In the feeding bag:

During the feeding process, if the bag in the feeding is set, when the current weight is greater than the starting weight of the bag, the bag in the feeding starts, and the output of the bag effective time and the bag invalid time are regarded as one bag at a time. After the "number of shots in the feeding" is reached, the output of the shot bag in the feeding is stopped.

After the value is taken, the bag is:

After the fixed value is over, if the set value is set and the bag is taken, the bag will be taken directly after the fixed value is set, and the output of the "bag valid time" and the "bag invalid time" will be regarded as one shot at a time, after reaching the "set value". After the number of times the bag is taken, the bag output is stopped after the fixed value is stopped.

Extra patting bag:

After all the bags are output, an additional bag output is performed. The effective time is the effective time of the extra bag output, and the invalid time is the bag invalid time. End the extra shot output after the bag is taken once.

## 8.2 coding

The amount of ON/OFFing involved in the coding function is: "code".

After the pocket is completed, if the code ON/OFF is turned on and the "code valid time" is not 0, the "code start delay" will be started. After the delay is over, the code delay will be started. The time is "coded effectively". Time", after the time is up, the coding process ends.

(Note: If "Do not allow unloading ON/OFF when coding" is turned on, the loading and unloading function is prohibited during the code process)

## 8.3 conveyor

The amount of ON/OFF involved in the conveyor function is: "conveyor output".

After the fixed value is over, check whether the "conveyor ON/OFF" is turned on. When it is turned on, run the "conveyor start delay time". After the delay time, the conveyor starts to run, and the "conveyor running time" is counted. Stop running.

Under the bucket scale structure, if the previous scale conveyor is still running, stop the conveyor before unloading.

Under the structure without bucket scale, if the conveyor of the previous scale is still running, stop the conveyor before the loose bag.

#### 8.4 printing

After connecting the printer, you need to set the communication parameters of the meter and select the communication method as the printing method. The print format is available in 24 columns and 32 columns. The language is available in both English and Chinese, and the number of lines to be printed can be set.

#### 8.5 sewing machine

The number of ON/OFFes involved in the sewing machine function is: "sewing machine output", "cutting machine output", "sewing machine start", "sewing machine emergency stop".

When the sewing machine ON/OFF is effective, the sewing machine starts to delay. When the delay time reaches, the sewing machine starts to work. The continuous output time is the output time of the sewing machine. After the output time of the sewing machine arrives, the delay time before the sewing machine is started and the delay time of the cutting machine is started. Sewing machine continues to work output, the duration of the sewing machine shutdown delay time. Tangent machine start delay time, when the tangent machine start delay time arrives, the tangent machine begins to work, the working time is the output time of the tangent machine, the tangent machine stops working after the output time arrives.

## 8.6 Unloading rapping

The ON/OFF quantity involved in the unloading rapping function is: "unloading rapping". When the discharge rapping ON/OFF is turned on, if the current discharge time is greater than the set discharge effective time, the discharge rapping output is started, and the unloading rapping effective time and the unloading rapping invalid time are combined as one unloading. When the material is rapping, when the number of unloading rapping reaches the set number of unloading rapping, the unloading rapping process ends and the alarm is stopped.

## 8.7 Loading / discharge timeout judgment

If the "loading and discharging timeout detection ON/OFF" is turned on, in the running state, during the fast, medium and slow loading and unloading process, the current process delay is greater than the set fast, medium and slow loading and discharging timeout time, then the timeout alarm is output and the machine is stopped.

## 8.8 auxiliary pulse

The amount of ON/OFFing involved in the auxiliary pulse function is: "auxiliary pulse input  $1\sim4$  ", "auxiliary pulse output  $1\sim4$  ".

Take auxiliary pulse 1 as an example:

#### **Pulse Mode**

When the meter input is stopped or running, when the digital input " auxiliary pulse input 1 " is valid, the digital output " auxiliary pulse output 1 " starts to output, and the output " set pulse 1 valid time" is continuously output. **After the** time is up, stop. Output, wait for the set "Auxiliary Pulse1 Invalid Time" to arrive, and start output again. The output is stopped until the "Auxiliary Pulse 1Execution Total Time" arrives, and the auxiliary pulse ON/OFF is turned off.

If the "Auxiliary Pulse 1 Execution Total Time" is set to 0, the output process will continue to execute.

If the digital input auxiliary pulse input 1 is valid during the auxiliary pulse execution, the auxiliary pulse 1 output will stop output.

## Level Mode

1. Set parameters and I/O Module: on the interface of [Peripherals Parameter] of [Auxiliary Pulse Parameter], select [level mode] type, set [Auxiliary Pulse valid time] for 2 seconds, set [auxiliary pulse invalid time] for 2 seconds, set the required input and output as [auxiliary pulse input] and [auxiliary pulse output] on the [ I/O Module] interface.

2. Perform the operation: select [level mode], and continue to give the high level at the set input. Give the high level and start the effective time of the auxiliary pulse until the end of the effective time 2s of the auxiliary pulse. At this point, the output of the trigger signal becomes invalid until the auxiliary pulse's invalid time 2s ends. After the invalid time of the auxiliary pulse is over, the output end is valid again, and the effective time of the auxiliary pulse is resumed, so as to cycle. Until the input end no longer input high level, output signal port no longer output high and low level.

# 9. Meter size (mm)

