M04 SERIES
WEIGHING CONTROLLER

CE OIML

Making the World Measurable Linking Your Smart Life

It can be widely used in food, feed, seed, chemrical, building materials, other industries.

A/D Max. 960t/s
Display Accuracy 1/100000

Advanced New Algorithm,
Optimised Hardware,
Faster and More Accurate
Weighing Control.

1

5-inch Screen

Easy Operation
Elegant Appearance

2

Administrator	
1.Recipe	Indicator has 40 recipe memories from 01 to 40.
2.Working Parameter	Each recipe includes many parameters. User can according set and edit this value.
3.Peripherals	
4.Motor Parameter	
5.Calibration	Recipe ID
6.ACUM And Batch	01
7.I/O Module	Target
8.Serial Port	0.00kg
9.User Management	
10.System Info.	Button : 1-Choose Recipe

3

USB Port

Easy to Import and Export Data
Upgraded Software
User-friendly Boot Screen

▶ Standard RS485+RS23（ModbusTCP）
Easier for System Interaction

System Info

USB Data Import	USB Data Export	Shortcut Setting	Other Setting

1.All Parameter
2.Working Parameter
3.Recipe Parameter
4.Peripherals Parameter
5.Motor Parameter
6.Calibration Parameter

Standard I/O

Active Low-Level for Input
Low-Level Effective
500mA for Single Drive Current
User-defined I/O

▶ M04 with Single Hopper: 8 Input/12 Output
M04 with Double Hopper: 12 Input/17 Output
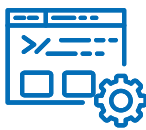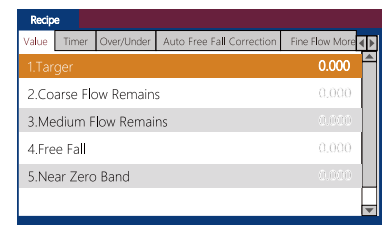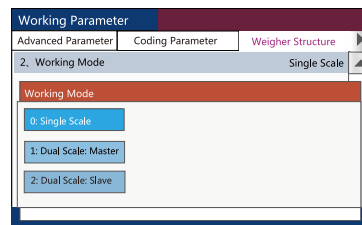
4

M04-2
Bagging Scale Controller

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

Version Features

MULTI-MODE

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

Supporting I/O tests, easy for products debugging.

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

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

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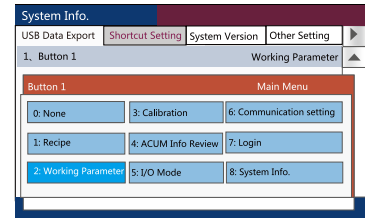

Feed control function, convenient for controlling the connection between packaging scale and feeding equipment.

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

Button Functions

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

System Info.
USB Data Export | Shortcut Setting | System Version | Other Setting ▶
1、Button 1   Working Parameter ▲

Button 1   Main Menu
0: None   3: Calibration   6: Communication setting
1: Recipe   4: ACUM Info Review   7: Login
2: Working Parameter 5: I/O Mode   8: System Info.

Administrator
1.Recipe
2.Working Parameter
3.Peripherals
4.Motor Parameter
5.Calibration
6.ACUM And Batch
7.I/O Module
8.Serial Port
9.User Management
10.System Info.

Indicator has 40 recipe memories from 01 to 40.
Each recipe includes many parameters.
User can according set and edit this value.

Recipe ID
01

Target
0.00kg

Button : 1-Choose Recipe

Database

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

I/O Port

8 Input/12 Output

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

RS485+RS232

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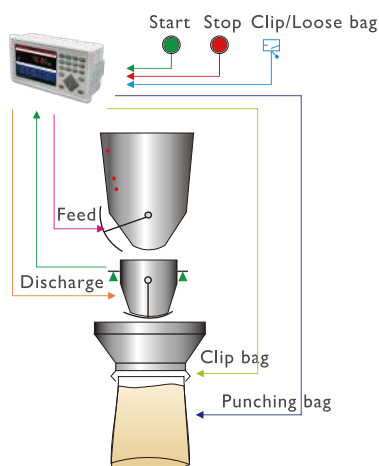
USB

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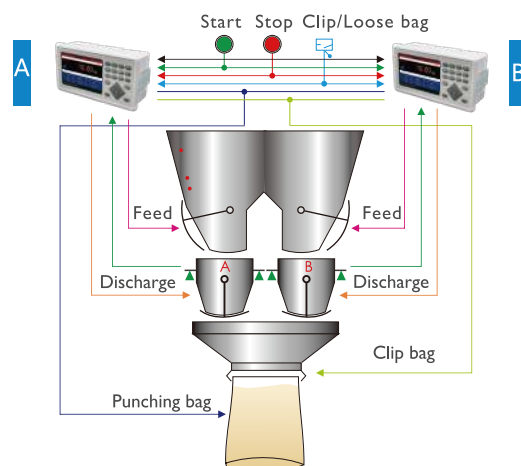
ModbusTCP

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

Application Schematic Diagram

Start Stop Clip/Loose bag

Feed

Discharge

Clip bag

Punching bag

Single Channel Packaging Controller with Hopper

Start Stop Clip/Loose bag

A   B

Feed   Feed

Discharge   A   B   Discharge

Clip bag

Punching bag

Double Channel Packaging Controller with Hopper

M04-D
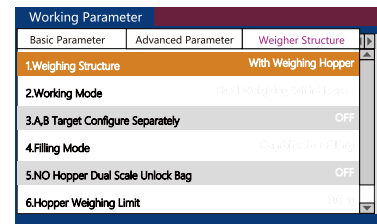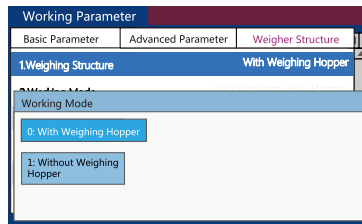
Bagging Scale Controller with Double Hopper

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

Version Features

MULTI-MODE

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

Supporting I/O tests, easy for products debugging.

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

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

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

Feed control function, conveni-ent for controlling the connection between packaging scale and feeding equipment.

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

Button Functions

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

System Info.			
USB Data Export	Shortcut Setting	Other Setting	◀▶
1.Button 1			Working
2.Button 2			Calibration
3.Button 3			Batch
4.Button <-			Target
5.Button 4			System Info
6.Button 5			Recipe ID

Database

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

Administrator	
1.Recipe	Indicator has 40 recipe memories from 01 to 40. Each recipe includes many parameters. User can according set and edit this value.
2.Working Parameter	
3.Peripherals	
4.Motor Parameter	
5.Calibration	Recipe ID
6.ACUM And Batch	02
7.I/O Module	Target
8.Serial Port	0.0kg
9.User Management	
10.System Info.	Button : 1-Choose Recipe

I/O Port

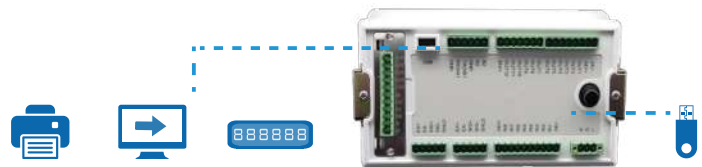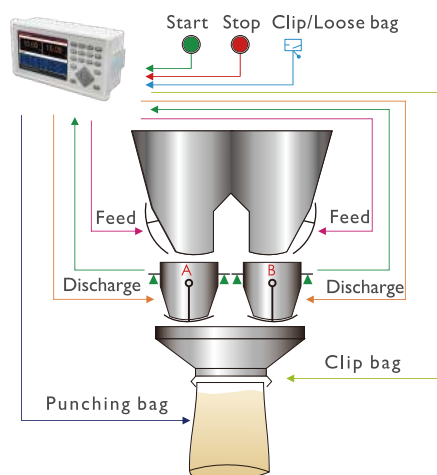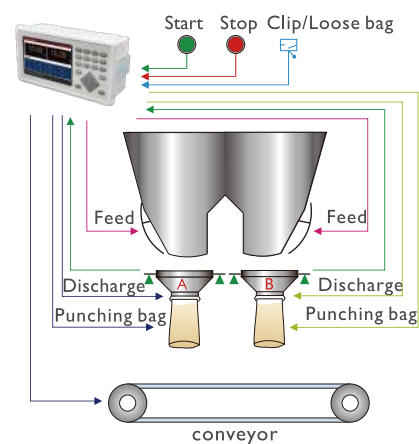| USB	RS485+RS232	12 Input/17 Output
For importing and exporting formula, working, I/O function, communication and other parameters, also for upgrading system/software, and customizing boot screen.	For connecting PC, PLC, printer, label printer, remote display, coding machine or other external equipment, which can be used for remote reading and setting.	For starting , and stopping, and carrying out A/B scale feeding, A/B scale unloading and other operations.

Application Schematic Diagram

Double Channel Packaging Controller with Hopper

Double Channel Packaging Controller without Hopper

M04-6/6D

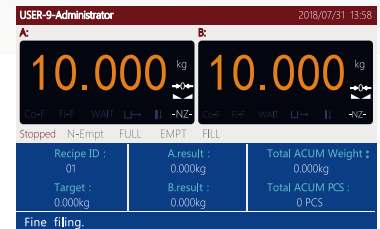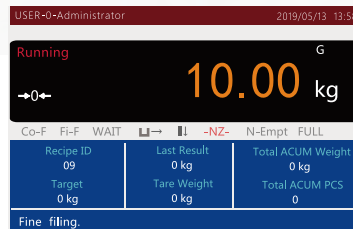## Single/Double Nozzle for Liquid Filling Application

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

Version Features

M04-6/M04-6D

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

Supporting I/O tests, easy for products debugging.

Automatic two material speed feeding control.

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

Batch setting function.

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

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

Button Functions

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

▶ Database

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

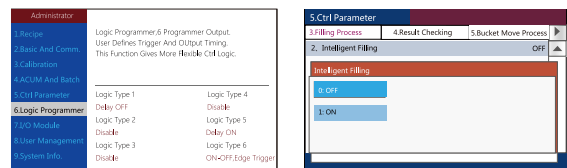## Auxiliary logic programming function

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

▶ Intelligent feeding control

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

I/O Port

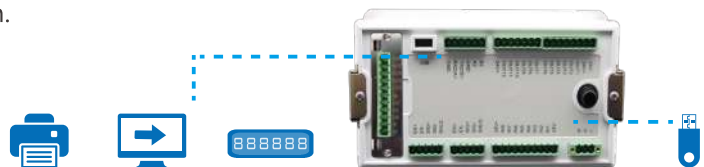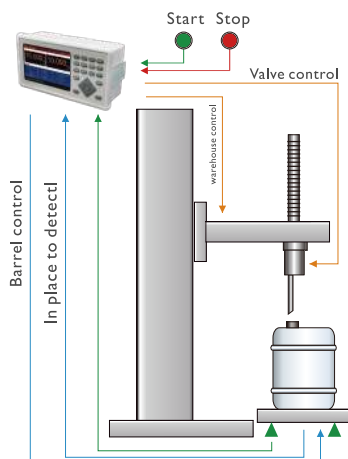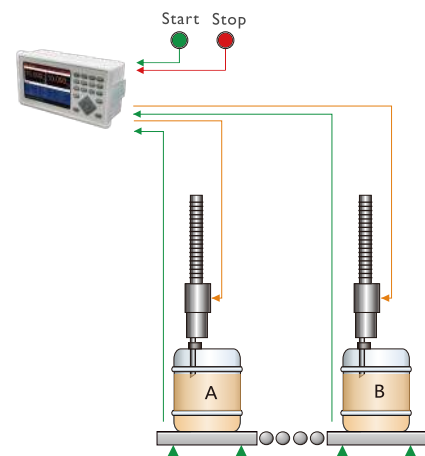| RS485+RS232	USB	8 Input/12 Output
For connecting PC, PLC, printer, label printer, remote display, coding machine or other external equipment, which can be used for remote reading and setting.	For importing and exporting formula, working, I/O function, communication and other parameters, also for upgrading system software, and customizing boot screen.	For starting, stopping, feeding, unloading, clamping/loosening, etc.

Application Schematic Diagram
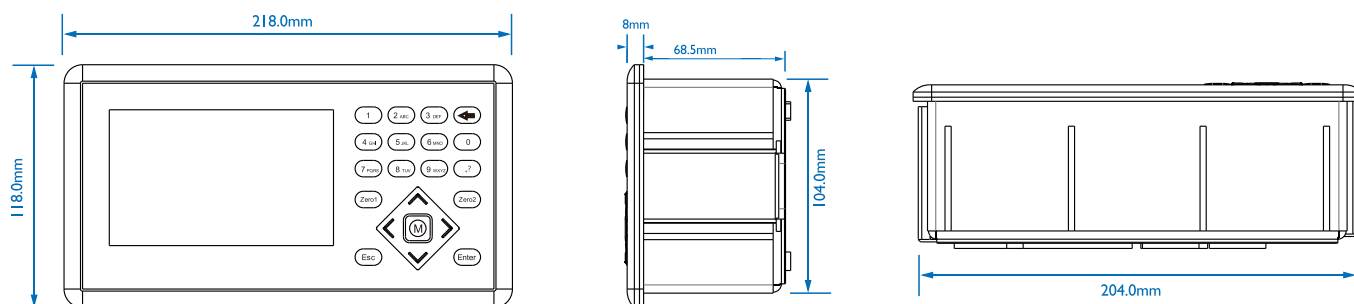

Single Nozzle for Liquid Filling Application

Double Nozzle for Liquid Filling Application

Specification

Model		M04
General Specification	Power Supply	AC90~260V 50Hz(or 60Hz) ±2%
	Operating Temperature	-10 to 40℃
	Maximum Humidity	90% R.H without dew
	OIML Standard	OIML R76: Class III 6000 divis. 1µV/d
	Power Consume	About 15W
	IP Level	Front panel IP65
A/D Converter	Type	24-bit Sigma-Delta
	Conversion Rate	120/240/480/960 SPS
	Non-Linear	0.01% F.S
	Gain Drifting	10PPM/℃
	Minimum Sensitivity	0.02 uV/d
	Analog Input Range	0.02mV -15mV
	Display Accuracy	1/100000
	Power Source for Load Cell	DC5V 125mA (MAX)
	Input Resistance	10MΩ
	Zero Point Adjustment Range	0.02~8mV (When the transducer is 2mV/V.)

Dimensions

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