

GMC-P7(F8)

Touch Screen Weighing Controller

(Manual Batching & Formulation)



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

HARDWARE CONFIGURATION

Standard:

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



Options:

- 4 relay output;

FEATURES & FUNCTIONS

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



Manual Batching & Formulation



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



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

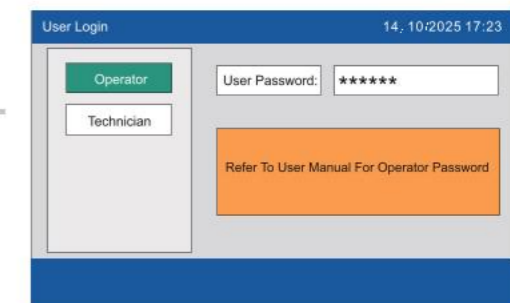


- **Style 2**: background color indicates results



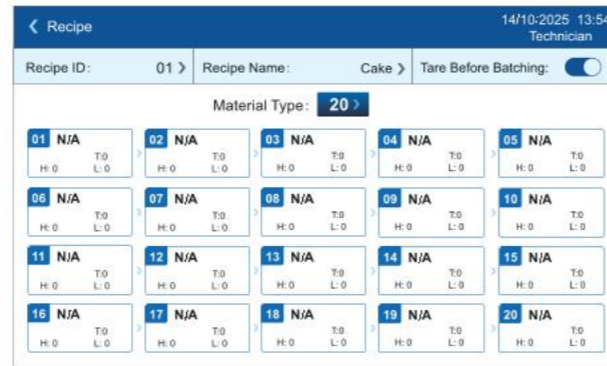
User Management

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



Recipe Function

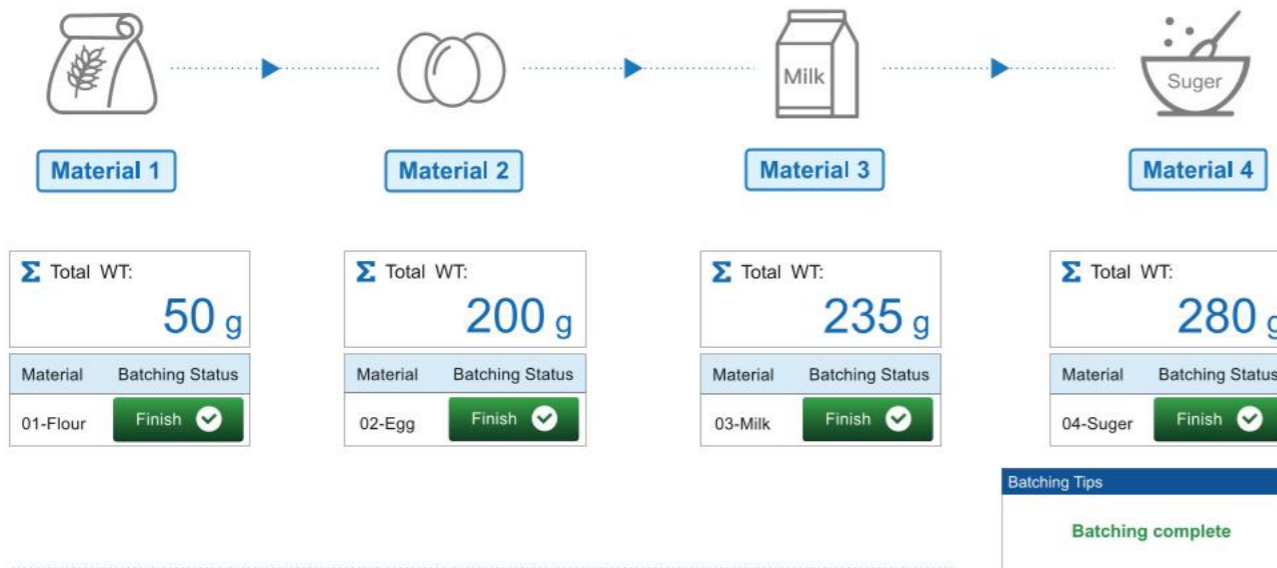
- 10 recipes, each recipe contains 20 materials, including target weight and tolerance.



- E.g. cake material:
 1. Flour 50g
 2. Egg 150g
 3. Milk 35g
 4. Sugar 45g



Manual Batching Process

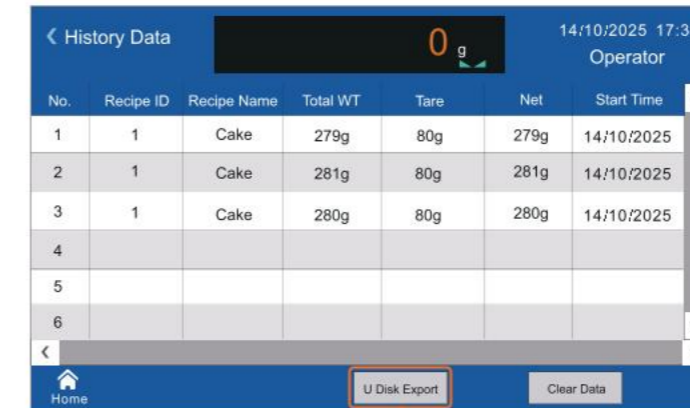


- User-friendly batching process display and prompts.



Report Function

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



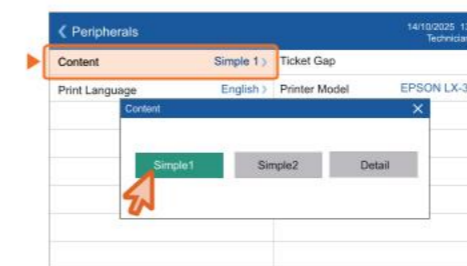
- USB for exporting the history data.



NO.	TIME	RECIPE	RECIPE NAME	TOTAL WT	TARE	NET	START TIME	END TIME	TOTAL TIME	UPPER LIMIT	LOWER LIMIT	NO.	NAME	TGT.	ACT.	UNIT	NO.	NAME	TGT.	ACT.	UNIT	NO.	NAME	TGT.	ACT.	UNIT	NO.	NAME	TGT.	ACT.	UNIT
2023-12-18	17:17	007	Cake	279 g	80 g	279 g	17:17:18	17:17:33	15 s	300 g	200 g	01	Flour	50 g	50 g	g	02	Egg	150 g	150 g	g	03	Milk	35 g	35 g	g	04	Sugar	45 g	45 g	g
2023-12-18	17:26	011	Cake	281 g	80 g	281 g	17:26:15	17:26:32	17 s	300 g	200 g	01	Flour	51 g	50 g	g	02	Egg	150 g	150 g	g	03	Milk	35 g	35 g	g	04	Sugar	45 g	45 g	g
2023-12-18	17:34	006	Cake	280 g	80 g	280 g	17:33:54	17:34:21	27 s	300 g	200 g	01	Flour	50 g	50 g	g	02	Egg	150 g	150 g	g	03	Milk	35 g	35 g	g	04	Sugar	45 g	45 g	g

Printing Function

- Support micro printer and EPSON serial printer;
 - Available for Chinese/English printing;
 - standard / simple1 / simple2
- 3 different formats of printing contents;



Simple 1

Recipe name Cake

Tgt. value +280 g

Act. value +280 g

Net weight +280 g

Gross weight +360 g

Date 14/10/2025

Simple 2

Recipe name Cake

Tgt. value +280 g

Act. value +280 g

Net weight +280 g

Gross weight +360 g

Date 14, 10, 2025

Material1 Flour

Tgt. value +50 g

Act. value +50 g

Material2 Egg

Tgt. value +150 g

Act. value +150 g

Material3 Milk

Tgt. value +35 g

Act. value +35 g

Material4 Sugar

Tgt. value +45 g

Act. value +45 g

Standard

Recipe name Cake

Tgt. value +280 g

Act. value +280 g

Net weight +280 g

Gross weight +360 g

Date 14/10/2025

Start time 17:57:54

Final time 17:58:25

Spent 31s

Material1 Flour

Tgt. value +50 g

Act. value +50 g

Material2 Egg

Tgt. value +150 g

Act. value +150 g

Material3 Milk

Tgt. value +35 g

Act. value +35 g

Material4 Sugar

Tgt. value +45 g

Act. value +45 g

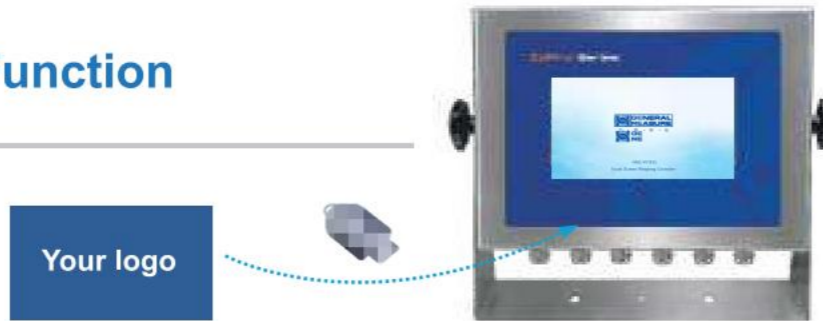
I/O Function



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

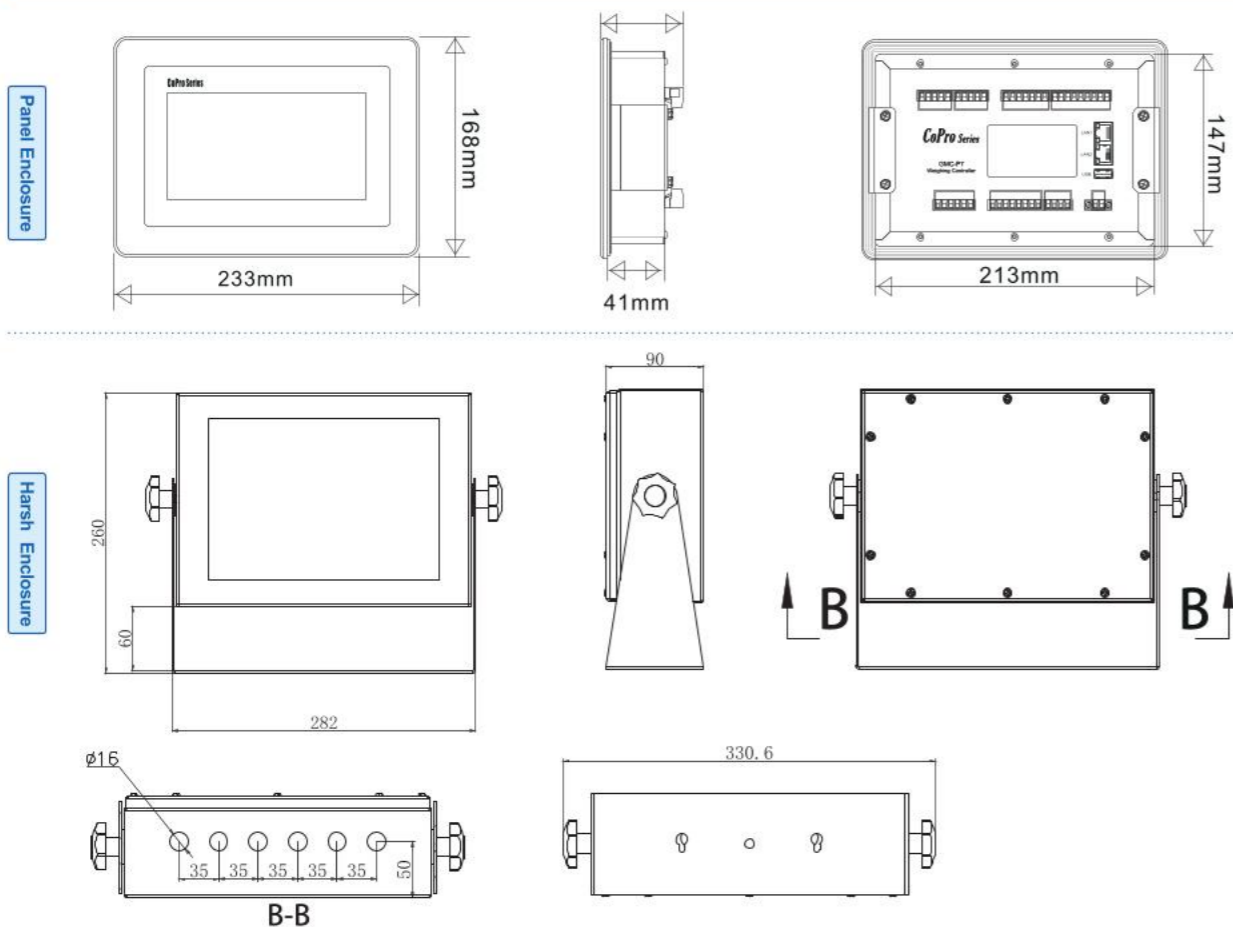
Boot Screen Function

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



Dimension

Unit:mm



Standard Specification

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

Application



Weighing scale



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

Printer

