# GMC-P7(F8)

## Touch Screen Weighing Controller

— Manual Batching & Formulation

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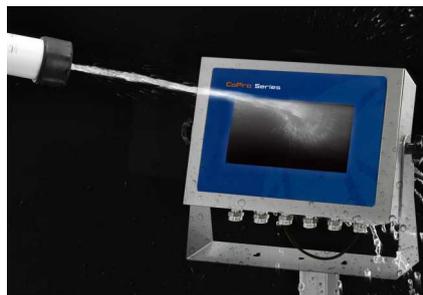
(Manual Batching & Formulation)

## High-efficient, competitive
## Easy operation, user-friendly

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.

## 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.

www.gmweighing.com

# Manual Batching & Formulation

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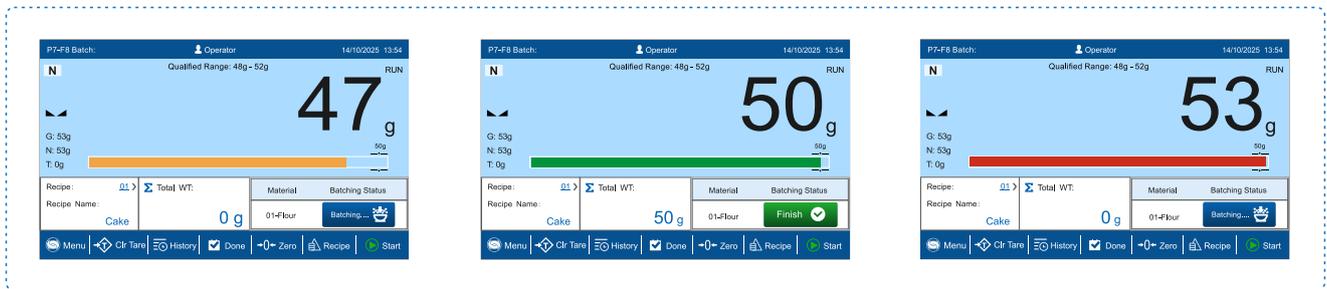
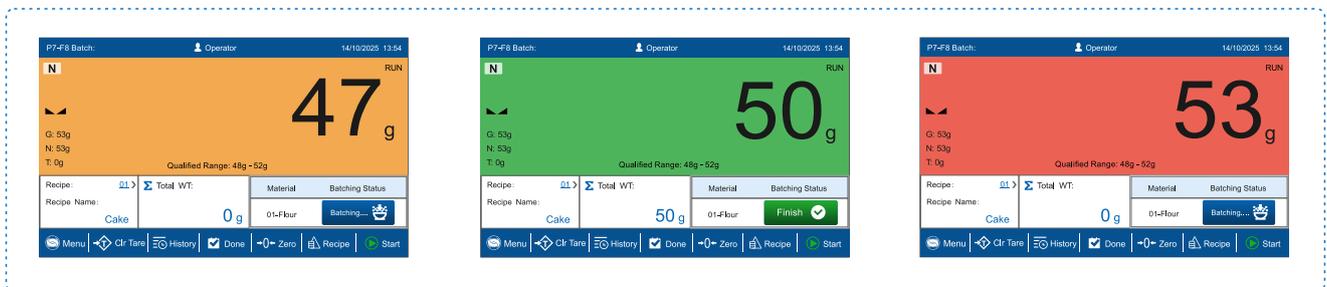**Underweight**  **Qualified weight**  **Overweight**

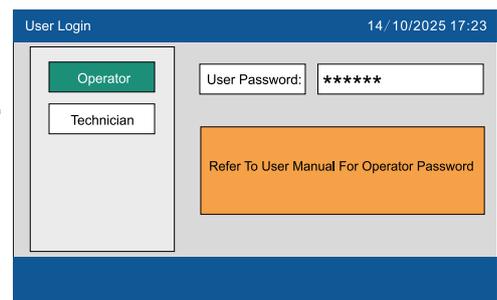- **Style 1**: progress bar indicates batching process



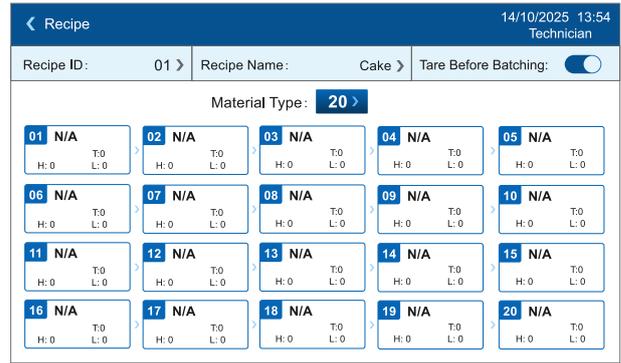- **Style 2**: background color indicates results



# User Management

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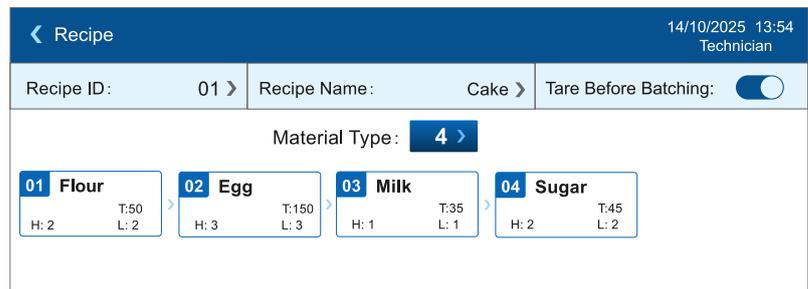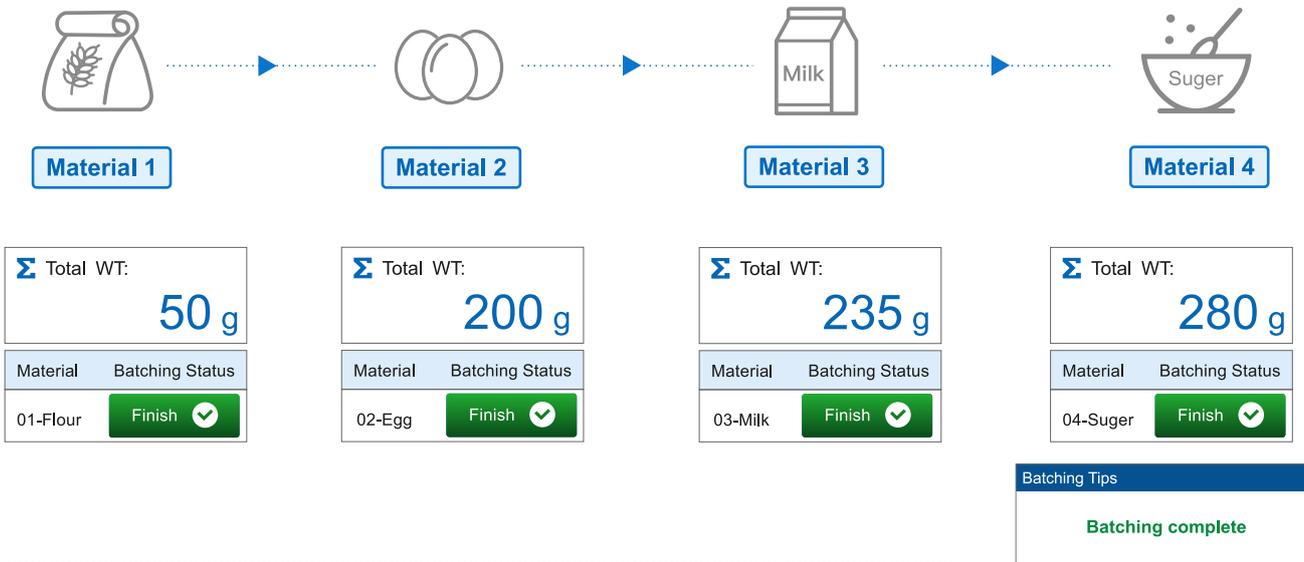  Prevent operators from modifying parameters.

# Recipe Function

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

**Recipe** — 14/10/2025 13:54 Technician

| Recipe ID: 01 | Recipe Name: Cake | Tare Before Batching: |

Material Type: **20**

| 01 N/A T:0 H:0 L:0 | 02 N/A T:0 H:0 L:0 | 03 N/A T:0 H:0 L:0 | 04 N/A T:0 H:0 L:0 | 05 N/A T:0 H:0 L:0 |
| 06 N/A | 07 N/A | 08 N/A | 09 N/A | 10 N/A |
| 11 N/A | 12 N/A | 13 N/A | 14 N/A | 15 N/A |
| 16 N/A | 17 N/A | 18 N/A | 19 N/A | 20 N/A |

## E.g. cake material:

1. Flour 50g
2. Egg 150g
3. Milk 35g
4. Sugar 45g

**Recipe** — 14/10/2025 13:54 Technician

Recipe ID: 01  Recipe Name: Cake  Tare Before Batching:

Material Type: **4**

| 01 Flour T:50 H:2 L:2 | 02 Egg T:150 H:3 L:3 | 03 Milk T:35 H:1 L:1 | 04 Sugar T:45 H:2 L:2 |

# Manual Batching Process

Material 1 → Material 2 → Material 3 → Material 4

| Σ Total WT: 50 g | Σ Total WT: 200 g | Σ Total WT: 235 g | Σ Total WT: 280 g |

| Material Batching Status | Material Batching Status | Material Batching Status | Material Batching Status |
| 01-Flour Finish | 02-Egg Finish | 03-Milk Finish | 04-Suger Finish |

Batching Tips — **Batching complete**

- User-friendly batching process display and prompts.

**Wait** | **Batching....** | **Finish**
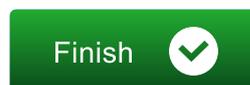
# Report Function



**History Data**

| No. | Recipe ID | Recipe Name | Total WT | Tare | Net | Start Time |
|---|---|---|---|---|---|---|
| 1 | 1 | Cake | 279g | 80g | 279g | 14/10/2025 |
| 2 | 1 | Cake | 281g | 80g | 281g | 14/10/2025 |
| 3 | 1 | Cake | 280g | 80g | 280g | 14/10/2025 |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |

14/10/2025 17:38 Operator

0 g

Home    U Disk Export    Clear Data

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

- USB for exporting the history data.

Tips ✕
Data Export Succeeded
100%
3 Data Exported
Cancel

| MCGS_TIME | MCGS_TIMEMS | Recipe_ID | Recipe_Name | Total_WT | Tare | Net | Start_Time | End_Time | Total_Time | Material_Name | Real_WT1 | Target1 | Up_Limit1 | Low_Limit1 | Material_Name | Real_WT2 | Target2 | Up_Limit2 | Low_Limit2 | Material_Name | Real_WT3 | Target3 | Up_Limit3 | Low_Limit3 | Material_Name | Real_WT4 | Target4 | Up_Limit4 | Low_Limit4 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2025/12/18 17:17 | 297 | 1 | Cake | 279 g | 80 g | 279 g | 17:17:19 | 17:17:53 | 34 s | Flour | 49 g | 50 g | 2 g | 2 g | Egg | 150 g | 150 g | 3 g | 3 g | Milk | 35 g | 35 g | 1 g | 0 g | Super | 45 g | 45 g | 2 g | 2 g |
| 2025/12/18 17:26 | 617 | 1 | Cake | 281 g | 80 g | 281 g | 17:26:15 | 17:26:52 | 37 s | Flour | 51 g | 50 g | 2 g | 2 g | Egg | 150 g | 150 g | 3 g | 3 g | Milk | 35 g | 35 g | 1 g | 1 g | Super | 45 g | 45 g | 2 g | 2 g |
| 2025/12/18 17:38 | 799 | 1 | Cake | 280 g | 80 g | 280 g | 17:37:54 | 17:38:25 | 31 s | Flour | 50 g | 50 g | 2 g | 2 g | Egg | 150 g | 150 g | 3 g | 3 g | Milk | 35 g | 35 g | 1 g | 1 g | Super | 45 g | 45 g | 2 g | 2 g |

# Printing Function

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

**Peripherals**    14/10/2025  13:54
Technician
Content            Simple 1 ›    Ticket Gap           0 ›
Print Language    English ›    Printer Model    EPSON LX-310 ›

Content ✕
Simple1    Simple2    Detail

**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 | Suger |
| 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 | 17:37:54 |
| Final time | 17:38:25 |
| 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 | Suger |
| Tgt. value | +45 g |
| Act. value | +45 g |
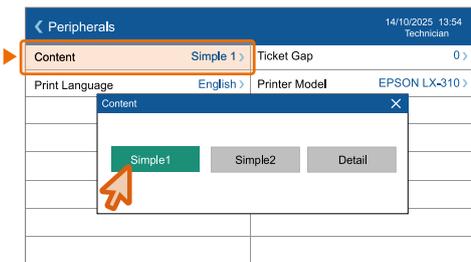
# I/O Function

| I/O | | | | 14/10/2025 13:54 Technician |
|---|---|---|---|---|
| Input > | IN1 | Zero > | Low_Level > | 5ms > |
| | IN2 | Print > | Low_Level > | 5ms > |
| | IN3 | Feed Paper > | Low_Level > | 5ms > |
| Output | IN4 | Start > | Low_Level > | 5ms > |
| | IN5 | Stop > | Low_Level > | 5ms > |
| I/O Test | | | | |

| I/O | | | 14/10/2025 13:54 Technician |
|---|---|---|---|
| Input | OUT1 | Stable > | Low_Level > |
| | OUT2 | Zero > | Low_Level > |
| | OUT3 | Net > | Low_Level > |
| Output > | OUT4 | Batching > | Low_Level > |
| | OUT5 | Over > | Low_Level > |
| | OUT6(R) | Pass > | |
| I/O Test | OUT7(R) | Under > | |
| | OUT8(R) | Material Done > | |
| | OUT9(R) | | |

| I/O | | | | 14/10/2025 13:54 Technician |
|---|---|---|---|---|
| Input | OUT1 | ⬤ | IN1 | ◉ |
| | OUT2 | ⬤ | IN2 | ◉ |
| | OUT3 | ⬤ | IN3 | ◉ |
| Output | OUT4 | ⬤ | IN4 | ◉ |
| | OUT5 | ⬤ | IN5 | ◉ |
| | OUT6(R) | ⬤ | | |
| I/O Test > | OUT7(R) | ⬤ | | |
| | OUT8(R) | ⬤ | | |
| | OUT9(R) | ⬤ | Test Switch | ⬤ |

- 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.

**Your logo**
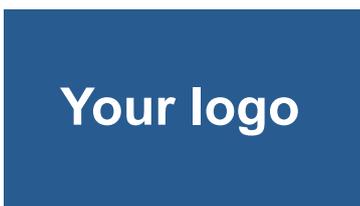
# HARDWARE CONFIGURATION

**Modbus**
**TCP/IP**

## Standard:

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

## Options:

- 4 relay output;

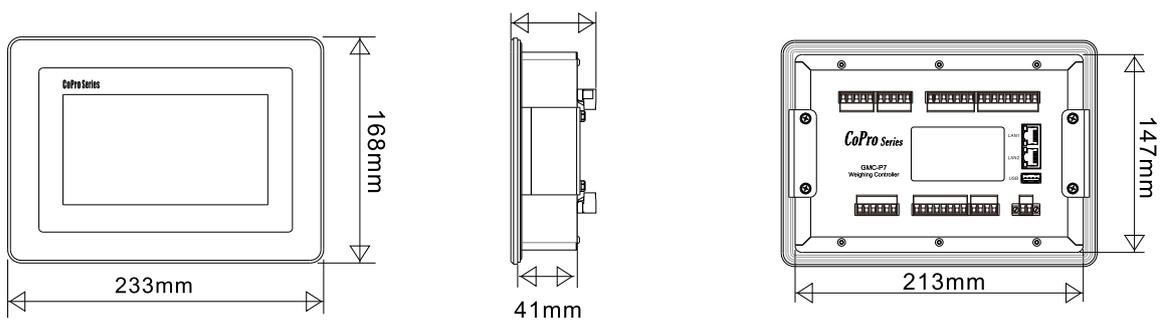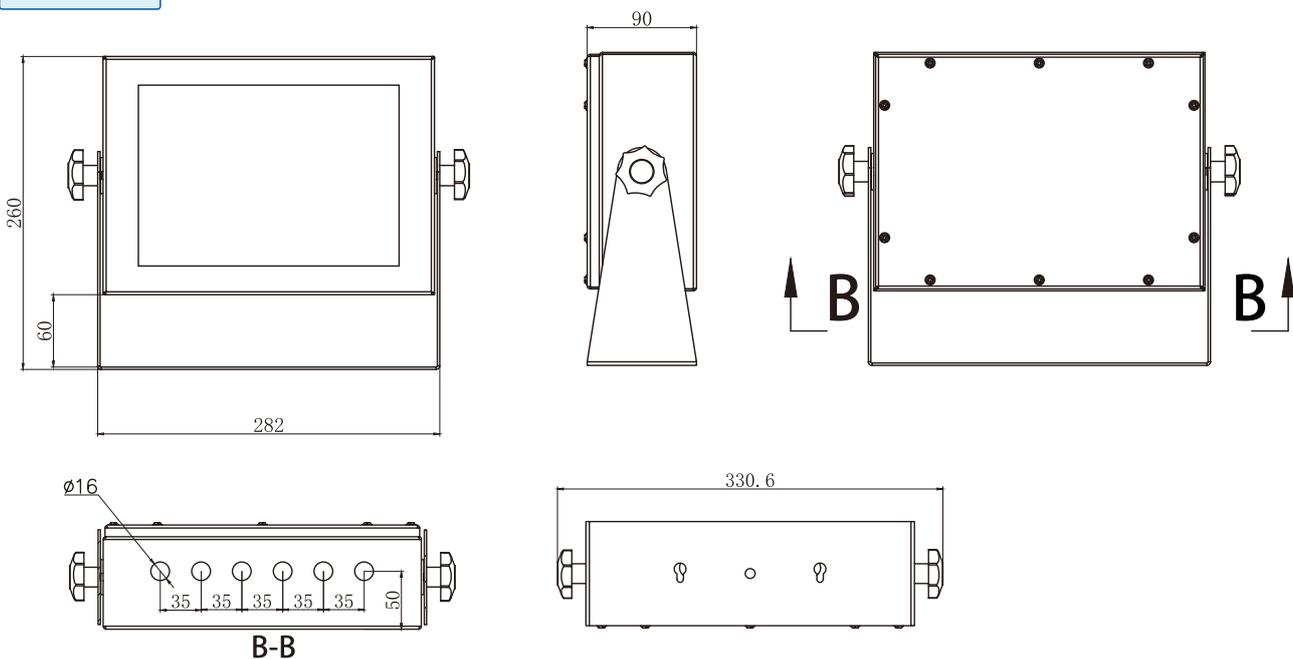## Dimension

Unit:mm

**Panel Enclosure**



168mm

233mm

41mm

147mm

213mm

**Harsh Enclosure**



90

260

60

282

B

B

Ø16

35 35 35 35 35 50

B-B

330.6

## Standard Specification

| 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 |
| | Power consumption | About 15W |
| Measurement Parameters | 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**

**General Measure Technology Co.,Ltd.**

Linkedin    Facebook    Wechat