

# GC series

GC-3K  
GC-6K  
GC-15K  
GC-30K

Quick Start Guide included with product  
Counting scale

Original

**English (EN)**

Guide de démarrage rapide inclus dans l'emballage  
Échelle de comptage

Traduction

**Français (FR)**

Kurzanleitung im Produkt enthalten  
Zählwaage

Übersetzung

**Deutsch (DE)**

Guía de inicio rápido incluido en el producto  
Escala de conteo

traducción

**Español (ES)**

Guida introduttiva incluso con il prodotto  
Bilancia contapezzi

traduzione

**Italiano (IT)**

快速入門指南 包含在產品中  
計數秤

翻譯

**中文 (CT)**

# AND

1WMPD4004626

A&D Company, Ltd.



# 1. Introduction

Thank you for purchasing this GC series A&D counting scale.

Please read this quick start guide for the GC series thoroughly before using the scale and keep it at hand for future reference.

This manual describes the installation and basic operations.

For further information about the scale, please refer to the separate instruction manual listed in "[1.1. Detailed manual](#)".

## 1.1. Detailed manual

Detailed functions and operations of the GC series are described in the separate instruction manual. It is available for download from the A&D website

<https://www.aandd.jp> :

### Instruction manual for the GC series

This manual helps you to understand the functions and operations of the GC series in detail and make full use of them.

## 1.2. Warning definitions

The warnings described in this manual have the following meanings:



### **DANGER**

An imminently hazardous situation which, if not avoided, will result in death or serious injury.

### **NOTE**

Important information that helps users operate the instrument.

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# 2. Precautions before use

## 2.1. Precautions when Installing the Scale

### **DANGER**

- ❑ Do not touch the AC adaptor with wet hands. Doing so may cause electric shock.
- ❑ Do not install the scale in the location where corrosive gas and flammable gas are present.
- ❑ The scale is heavy. Use caution when lifting, moving and carrying the scale.  
Do not lift the scale by holding the display unit or weighing pan. Doing so may cause

## DANGER

the product to fall and be damaged. Hold the bottom side of the base unit when lifting, moving and carrying the scale.

- ❑ Use the scale indoors. If used outdoors, the scale may be subjected to lightning surges that exceed the discharge capacity. It may not be able to withstand the energy of the lightning and may be damaged.

### Consider the following installation conditions in order to obtain the proper performance.

- ❑ The ideal conditions for installation are stable temperature and humidity, solid and level surface, location with no draft or vibration, indoors out of direct sunlight and a stable power supply.
- ❑ Do not install the scale on a soft floor or where there is vibration.
- ❑ Do not install the scale in location where breezes or large fluctuations in temperature occur.
- ❑ Avoid locations in direct sunlight.
- ❑ Do not install in a location with strong magnetic fields or strong radio signals.
- ❑ Do not install the scale in a location where static electricity is likely to occur. When humidity is 45% R.H. or less, plastic and insulating materials are susceptible to being charged with static electricity due to friction, etc.
- ❑ The scale is not dustproof and waterproof. Install the scale in a location that will not become wet.
- ❑ When the AC adapter is connected to an unstable AC power supply, it may malfunction.
- ❑ Turn on the scale using the **ON/OFF** key and keep the weighing display on for at least 30 minutes before use.

## 2.2. Precautions when weighing

- ❑ Do not place a load exceeding the weighing capacity on the weighing pan.
- ❑ Do not apply shock to or drop anything on the weighing pan.
- ❑ Do not use a sharp instrument such as a pencil or pen to press keys or switches.
- ❑ Press the **ZERO** key before each weighing to reduce weighing errors.
- ❑ Periodically confirm that weighing values are correct. Periodic sensitivity adjustment is recommended in order to maintain accurate weighing.

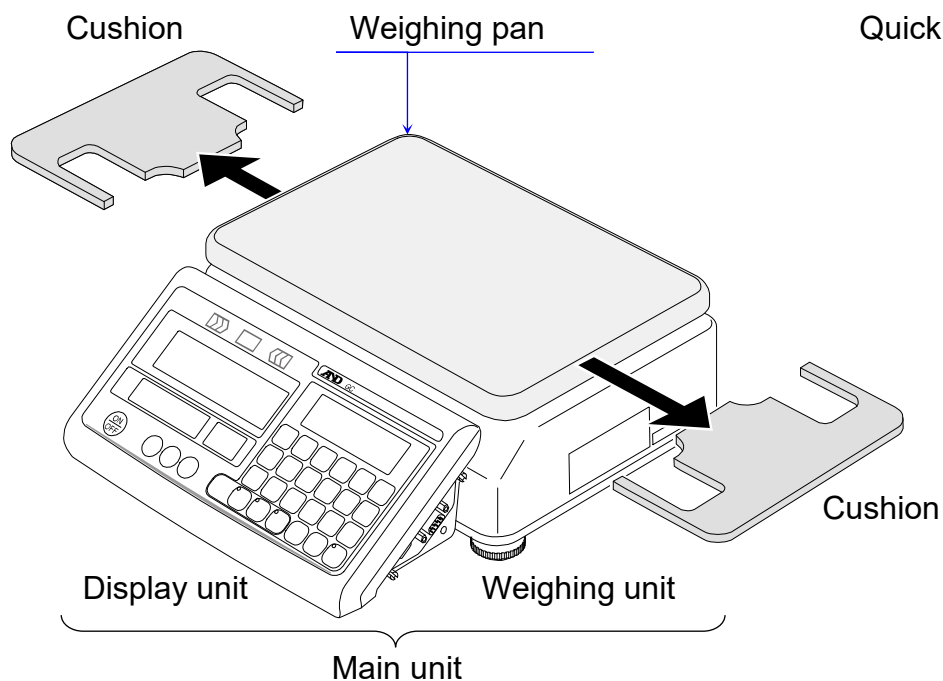
## 2.3. Precautions for storing

- ❑ Do not disassemble and remodel the scale.
- ❑ Wipe using a lint-free soft cloth slightly moistened with a mild detergent when cleaning the scale. Do not use organic solvents.
- ❑ Prevent water, dust and other foreign materials from getting into the scale.
- ❑ Do not scrub with a brush or the like.

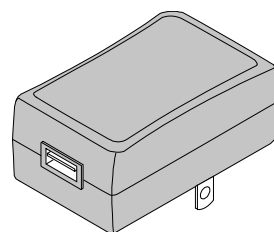
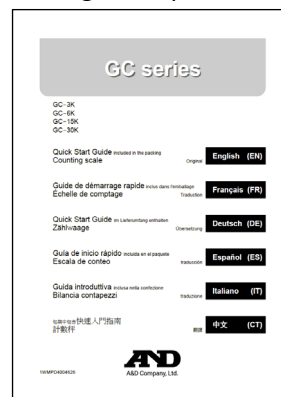


### 3. Unpacking


The following items are included in the package.

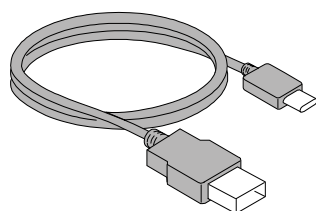


Quick start guide (this manual)



AC adapter

 Please confirm that the AC adapter is correct for your local voltage and type of power plug.



USB cable (approximately 1.5 m)

- ❑ Remove the cushions between the weighing unit and weighing pan. Keep the cushions and the packing material to use when transporting the scale in the future.



## 4. Part names

Weighing pan

Front panel (Refer to next page)

Power panel

Power input terminal

RS-232C terminal

External input terminal (e.g. foot switch)

Leveling feet

(Turn so as to center the bubble in the bubble spirit level.)

Serial number

Grounding terminal  $\perp$

Bubble spirit level



The scale is horizontal.



Correct weighing.



The scale is tilted.



Incorrect weighing.

Cable panel

## Front panel

### Remote scale mark.

Mark is displayed when a remote scale is used.

### M+ mark.

Mark is displayed when count data has been accumulated.

### Comparator results.

### Unit weight is light.

The unit weight is too light for accurate counting.

### ACAI mark (Automatic Counting Accuracy Improvement).

Mark is displayed when weight is within the range of ACAI. Mark blinks during additional ACAI processing and hides after it.

### Stable mark.

Mark is displayed when the weighing value is stable.

### Net mark.

Mark is displayed when tare weight is subtracted from gross weight.

### Zero mark.

Mark is displayed when the weighing value is at the zero point.

### Mass display.

### ON/OFF key.

The display is turned on or off.

### ZERO key.

The zero point for the scale is set.

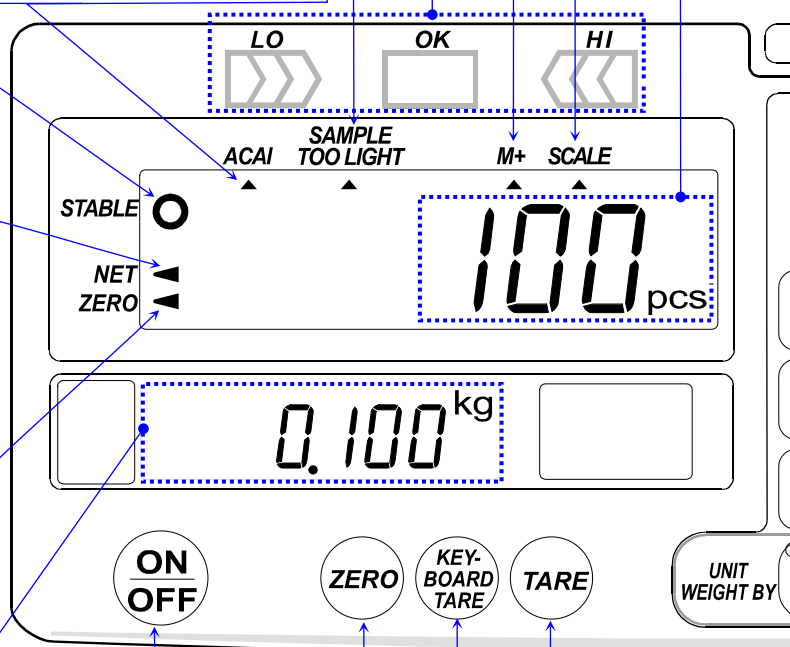
### KEYBOARD TARE key.

The known tare weight using the numeric keys is inputted.

### TARE key.

Net value that subtracts the tare weight from gross weight is displayed.

### Count display.



**PRINT** key.

Data is outputted.

**TOTAL** key.

The total count is displayed.

**M+** key.

The count data to the total is added.

**REMOTE SCALE** key.

The key switches between the GC and remote scale.

**\*** key.

Product name is displayed. Or the **M-** key.

**Unit weight display.**

**RESET** key.

Any previous operations is cleared.

**0** to **9**, **.** key.

Alphanumeric keys, decimal point key.

**C** key.

The value input by numeric keys is cleared.

**ENTER** key.

Sample weight, ID and alphanumeric input are entered.

**STORE UNIT WEIGHT** key.

Unit weight, product name and other data in memory are entered.

**COMP** key.

Upper limit value and lower limit value are displayed.

**SAMPLE** key.

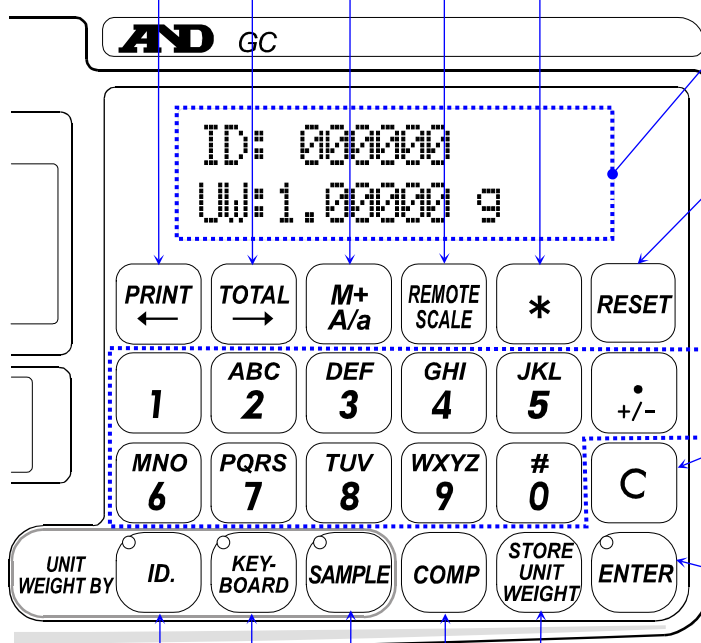
Unit weight using samples is entered .

**KEY BOARD** key.

Unit weight using numeric keys is entered .

**ID.** key.

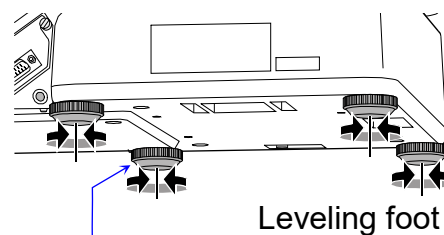
Unit weight and other data from memory are recalled.





## 5. Installation

- Step 1. Adjust the horizontal level of the product using the four leveling feet and bubble spirit level. Confirm that the scale is seated firmly and does not rattle. Refer to "[2.1. Precautions when Installing the Scale](#)".



### Bubble spirit level



The scale is horizontal.



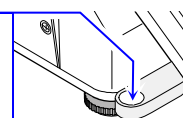
Correct weighing.



The scale is tilted.



Incorrect weighing.



- Step 2. Connect the AC adapter to an outlet and the USB cable to the power input terminal.



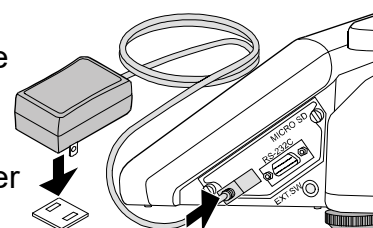
Please confirm that the AC adapter is correct for your local voltage and type of power plug.

USB cable

AC adapter

Outlet

Power input terminal



### Cautions

- Perform sensitivity adjustment when the scale is installed at a new location or is moved to a different location. Refer to "[1.1. Detailed manual](#)".
- The power input terminal cannot perform data communication.
- The power input terminal cannot output power.
- Do not connect any device other than the specified AC adapter to the power input terminal.



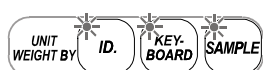


## 6. Counting mode

### 6.1. Preparing counting mode

- Enter the mass value (unit weight) per product before using counting mode.

- Step 1. Turn on the display using the **ON/OFF** key.  
Or, press the **RESET** key to clear unit weight after turning on the display.
- Step 2. The three LEDs blink. The method to enter unit weight can be selected. The counting mode becomes the initial state.
- Step 3. Press one of the keys below to select the method to enter unit weight or recall it from memory.



Unit weight by weighing a sample is entered.

Unit weight by using numeric key is entered.

Unit weight from memory is recalled.

#### NOTE

If you lose your place during operations or want to stop the current operation, press the **RESET** key. Tare and total values, comparator settings are kept.

RESET

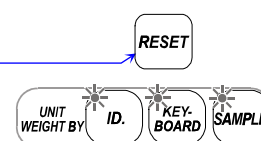
- Refer to "1.1. Detailed manual" for methods of setting the unit weight other than from a sample.

### 6.2. Unit weight by samples

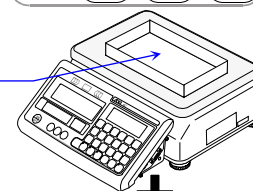
#### Counting mode with using 10 samples

- Step 1. Press the **RESET** key to clear unit weight.  
The three LEDs of "UNIT WEIGHT BY" blink.  
Place a tare (container) on the center of weighing pan.

Clear unit weight



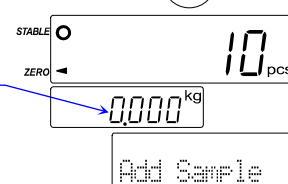
Tare (container)



- Step 2. Press the **SAMPLE** key.  
The scale subtracts tare weight (container weight) from weighing value and displays **Add Sample** and **10 pcs** automatically.  
If zero is not displayed, press the **TARE** key.

(If zero is not displayed **TARE**)

Zero display



Step 3. Place 10 samples on the weighing pan (or on container).

- The total weight of the samples is displayed.

- The number of samples changes in the order 5, 25, 50, 100, 10, 5 pieces when the **[SAMPLE]** key is pressed.

**NOTE** The larger the number of samples, the more accurate the unit weight will be.

Step 4. Press the **[ENTER]** key. Samples counted, total weight and unit weight are displayed after **-----** is displayed.

- If the unit weight is too light, **[Add]** and the required number to be added are displayed. Add additional number of the samples displayed. Press the **[ENTER]** key to update it.
- You can ignore the **[Add]** message for additional samples. However, counting accuracy may not be sufficient.

Example: Add samples of 15 pieces.

Step 5. You may begin counting operations using the unit weight entered.

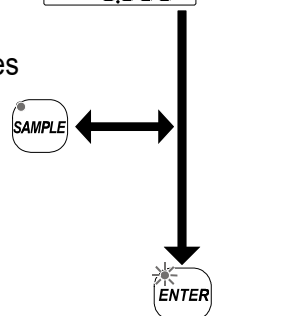
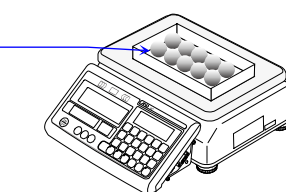
10 samples

Samples counted

Total weight

Number of samples

5 → 25 → 50  
↑ pcs ↓  
10 ← 100

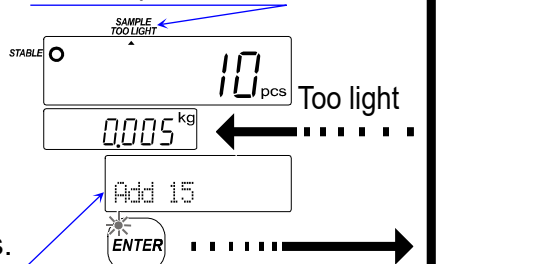


Samples counted

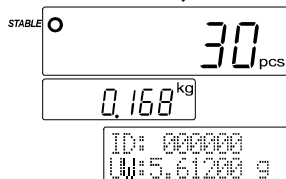
Total weight

Unit weight

Add sample mark



Example for 30 pieces





## 7. Maintenance

- Take into account the content of "[2.1. Precautions when installing the scale](#)".
- Confirm periodically that weighing value are correct.  
Adjust the scale if necessary.  
Refer to "[1.1. Detailed manual](#)" for "**sensitivity adjustment**" and "**sensitivity adjustment of zero point**".

### 7.1. Troubleshooting checklist and solutions

Problem	Check items and solutions
The power does not turn on. Nothing is displayed.	<ul style="list-style-type: none"><li>□ Confirm that the AC adapter is connected correctly.</li></ul>
Zero is not displayed when the display is turned on.	<ul style="list-style-type: none"><li>□ Confirm that nothing is touching to the weighing pan.</li><li>□ Remove anything on the weighing pan.</li><li>□ Perform sensitivity adjustment of zero point.</li></ul>
The display does not respond.	<ul style="list-style-type: none"><li>□ Turn off the display and then turn it back on.</li></ul>
Counting mode cannot be used.	<ul style="list-style-type: none"><li>□ Confirm that unit weight has been entered. Refer to "<a href="#">4. Counting mode</a>".</li></ul>

### 7.2. Error codes

Error codes	Descriptions and solutions
	<b>Unstable weighing value</b> "Zero display" and "sensitivity adjustment" cannot be performed. <ul style="list-style-type: none"><li>□ Confirm that nothing is touching to the weighing pan.</li><li>□ Avoid breezes and vibration.</li><li>□ Perform "sensitivity adjustment of zero point".</li><li>□ Press the  key to return to weighing display.</li></ul>
	<b>Input error</b> The value input for unit weight or tare value is out of range. Input a value within the range.
	The memory (circuit) has malfunctioned.
	The voltage sensor has malfunctioned.
	<b>Weighing sensor error</b> <ul style="list-style-type: none"><li>□ Confirm that cable between display unit and weighing unit is connected correctly.</li><li>□ The weighing sensor has malfunctioned.</li></ul>
	<b>Sensitivity adjustment error</b> The sensitivity adjustment has been stopped because the sensitivity adjustment weight is too heavy or too light. Use a proper sensitivity adjustment weight and adjust the scale.

Error codes	Descriptions and solutions
$\overline{E}$	<b>The load is too heavy</b> The weighing value exceeds the weighing range. Remove anything on the weighing pan.
$-\overline{E}$	<b>The load is too light</b> The weighing value is too light. Confirm that the load is placed correctly on the weighing pan.
$Lb$	<b>Power voltage is too low</b> The power supply voltage is too low. Use the correct AC adapter and a proper power source.
$Hb$	<b>Power voltage is too high</b> The power supply voltage is too high. Use the correct AC adapter and the proper power source.



## 8. Specifications

### 8.1. Specifications

Model		GC-3K	GC-6K	GC-15K	GC-30K
Capacity [kg]		3	6	15	30
Readability	[kg]	0.0005	0.001	0.002	0.005
	[g]	0.5	1	2	5
Unit		kg, g, pcs, lb, oz, toz			
Number of samples		10 pieces (5, 25, 50, 100 pieces or arbitrary quantity)			
Minimum unit weight [g] <sup>*1</sup>		0.1 / 0.005	0.2 / 0.01	0.4 / 0.02	1 / 0.05
Repeatability (standard deviation) [kg]		0.0005	0.001	0.002	0.005
Linearity [kg]		±0.0005	±0.001	±0.002	±0.005
Span drift		±20 ppm/°C typ. (5 °C to 35 °C)			
Operating conditions		0 °C to 40 °C, less than 85 % RH (No Condensation)			
Display	Counting	7 segment LCD, Character height 22.0 [mm]			
	Weighing	7 segment LCD, Character height 12.5 [mm]			
	Unit weight	5 × 7 dot LCD, Character height 6.7 [mm]			
	Icons	128 × 64 dot OLED			
Display refresh rate		Weighing value, counting display : Approximately 10 times per seconds			
Interface		RS-232C, microSD <sup>*2</sup>			
Power		AC adapter, Supply from USB port or mobile battery is available. <sup>*2</sup>			
Size of weighing pan [mm]		300 × 210			
Dimensions [mm]		315(W) × 355(D) × 121(H)			
Mass [kg]		Approx. 4.9		Approx. 4.8	Approx. 5.5
Weight of sensitivity adjustment		3 kg ±0.1 g	6 kg ±0.2 g	15 kg ±0.5 g	30 kg ±1 kg
Accessories		Quick start guide (this manual), AC adapter, USB cable			

<sup>\*1</sup> Minimum value of unit weight can be selected in the function table.

<sup>\*2</sup> Performance cannot be guaranteed for all devices.

# MEMO

[illegible]

# MEMO

[illegible]

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