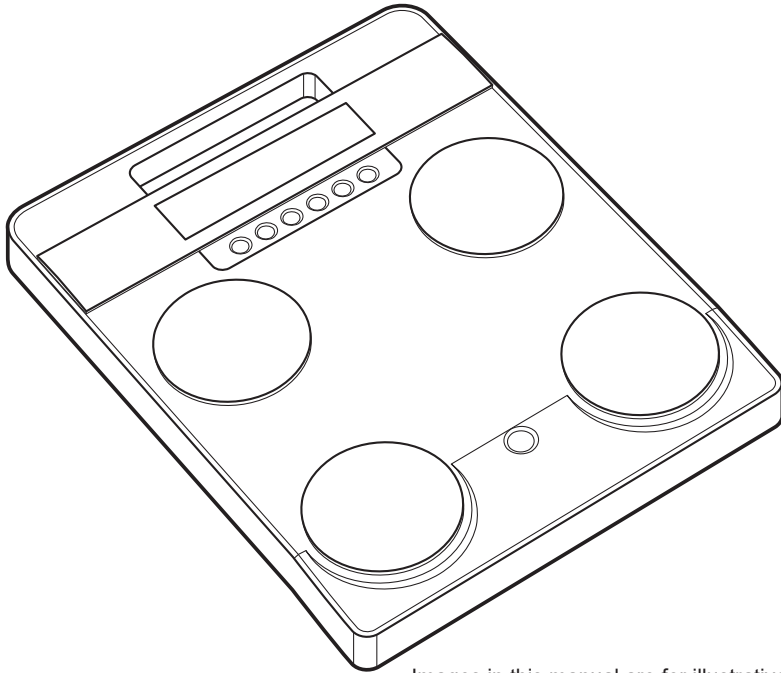


## Instruction manual

### BODY COMPOSITION ANALYZER

# DC-240MA



Images in this manual are for illustrative purposes only.

#### <Usage Conditions>

Temperature Range : **5 to 35°C/41 to 95°F**  
Relative Humidity Range : **30 to 80%**  
(without condensation)  
Maximum Altitude : **2,000m ASL/6,500ft ASL**  
Atmospheric Pressure Range : **86 to 106kPa**

#### <Storage/Transport Conditions>

Temperature Range : **-10 to 60°C/14 to 140°F**  
Relative Humidity Range : **10 to 90%** (without condensation)  
Atmospheric Pressure Range : **70 to 106kPa**  
To avoid malfunctions, avoid storing the equipment in a location that is subject to direct sunlight, significant temperature changes, dampness, large amounts of dust, the risk of vibration or impact, or near naked flames.



Please read this Instruction Manual carefully and keep it handy for future reference.

# Intended use

- This product can be used in the screening of certain adult diseases and conditions related to body weight and composition.
- It can be used in the monitoring and prevention of conditions caused by excessive deposits of fat tissue such as diabetes, hyperlipidemia, cholelithiasis and fatty liver.
- It can be used in the monitoring of changes in individuals' body composition related to differences in the ratio of fat tissue to lean.
- It can be used to assess the effectiveness of individuals' nutrition and exercise programs, both for health and physical fitness.

## Efficacy

1. This product is simple to use, and requires no specialized facilities or expertise to take measurements.
2. Measurements can be taken quickly and easily, causing minimal inconvenience to the patient during measurements.





# Contents

en

## Before use

<b>For Your Safety</b> .....	<b>4</b>
<b>Part Names &amp; Accessories</b> .....	<b>8</b>
<b>Names and Functions of Display Panel &amp; Operation Keys</b> .....	<b>9</b>
<b>Preparation</b> .....	<b>10</b>
<b>Power supply</b> .....	<b>11</b>
<b>Various setting</b> .....	<b>12</b>

## How to use

<b>How to use</b> .....	<b>13</b>
• Mode selection .....	13
• Body composition analyzer.....	14
• Scale .....	17
• Scale • Weight Lock Mode.....	18
• BMI Mode .....	19

## When necessary

<b>Various criteria</b> .....	<b>20</b>
<b>Troubleshooting</b> .....	<b>22</b>
<b>Specifications</b> .....	<b>24</b>

# For Your Safety

This section explains precautionary measures to be taken to avoid injury to the patients and operators of this product, and to prevent damage to property. Please familiarise yourself with this information to ensure safe operation of this product.

The DC-240MA is not diagnostic product. In order to make an accurate diagnosis, in addition to the result of DC-240MA, the doctor in charge should conduct appropriate examinations and consider the results.

## ⚠️ Contraindication



Prohibited

**This product must not be used on subjects with pacemakers or other mechanical implants.**

This product passes a weak electrical current through the body which could interfere with and cause the malfunction of electrical medical implants, resulting in serious repercussions.



**Warning**

Failure to follow instructions highlighted with this mark could result in death or severe injury.



**Caution**

Failure to follow instructions highlighted with this mark could result in injury or damage to property.



Prohibited

This mark indicates actions that are prohibited.



Required

This mark indicates instructions that must always be followed.

## ⚠️ Warning



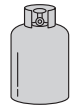
Prohibited

**Do not handle the plug with a wet hand.**

Such action may result in electric shock, fire, or leakage.



**Keep this product away from flammable gas and oxygen rich environment.**



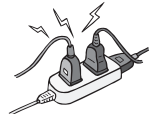
**No modification of this product is allowed.**

There is a risk of electrocution or injury. Nor can precise analysis be guaranteed.



**Do not use double adapters.**

May result in fire.



Required

**Use only a correctly wired (230VAC) outlet.**

Only genuine cables and equipment are allowed.

**⚠ Caution**



Prohibited

- Keep off wet circumstance.**
- Avoid using on subjects with allergies to metals.**  
Allergic reactions may be caused by the stainless steel used in the electrodes of this product.
- Do not jump on the product.**
- Do not use this product near other products that emit electromagnetic waves.**
- Do not insert fingers into gaps and holes.**
- Do not apply force to the display.**  
The screen panel may break and cause injury.
- Do not place items sensitive to magnetic forces near the product.**  
The magnet of the impedance meter may cause corruption of data on devices such as USB memory sticks if these are placed near the product.
- Assist persons with disabilities.**  
Another person should assist persons with disabilities who may not be able to take a measurement alone.



Required

- Be sure to clean the scale platform with appropriate disinfectant after each use.**
- For your safety to avoid the risk of electric shock and to secure the accuracy, keep a clearance with patients during measuring.**
- Continually monitor both the subject and the product for anomalies.**  
Should an anomaly with the subject or the product be discovered, take appropriate action, such as stopping the product, while ensuring the safety of the subject.
- Be sure to use the designated AC adapter.**
- Unplug the AC cable from the product when moving it.**
- Do not interpret analysis results yourself (including evaluating measurements and formulating exercise programmes based on results, etc.).**  
Weight loss and exercise based on self-analysis could be detrimental to your health. Always follow the advice of a qualified professional.
- This product is designated a Class B IT device (mainly for systems intended to be used in domestic environments) and CE (EMC), but weak product may be affected.**  
If you connect your computer or peripherals, please use the compliance with IEC60601-1 (EN60601-1). Or if using the compliance with IEC60950 (EN60950), power must be supplied from the medical isolating transformer. Keep at a distance of 1.5m between each product during operation. If you ignore this requirement, may cause electrical shock of patients or operation. The connection cable to the PC must be used less than 3m.
- This product may only be operated by healthcare professionals.**

# For Your Safety (Continue)

## For Accurate Measurements

en  
Before use  
(For Your Safety)



Prohibited

### Avoid measuring after hard exercise.

May result in measurement errors. Please take measurements after sufficient rest.



### Avoid measuring after over-eating or over-drinking, and when severely dehydrated.

May result in measurement errors. For greater accuracy, avoid using directly after waking up. Use at the same time on each occasion, at least three hours after eating.



**Do not take measurements while using transmitters, such as mobile phones, which may affect readings.**



Required

### Use the product under the same conditions and in the same position as much as possible to track changes.

Readings are greatly affected by the level of hydration and position of the body. Please use at the same time each day, under the same conditions and in the same body position.



### Avoid measuring in multiple locations with greatly differing temperatures.

This may cause inaccurate measurements. Allow the product to stand for at least 2 hours before using if it is moved to a new location with a temperature difference of 20 /36°F or more.



**Always hold both arms straight down when taking measurements to prevent measurement errors such as undermeasurement of body fat.**

**Bare feet should be placed correctly on the electrode platform.  
Place arms straight down during measurement.**

### Use in a stable location.

Errors in measurements may occur when the product is used in an unstable location.

## Scheduled Maintenance

en

Before use  
(For Your Safety)



Required

**TANITA recommends that each facility conduct periodic checks of each unit.**

1. Check the following at least daily:
  - The unit is on a stable and level surface i.e. on a firm flooring, not on a thick carpet
2. Visually inspect the following at least weekly:
  - The display for any damage or contamination
  - All cables, cords, and connector ends for damage or contamination
  - All safety-related labeling for legibility
  - All accessories (sensors, electrodes, etc.) for wear or damage
3. Visually inspect the following at least monthly:

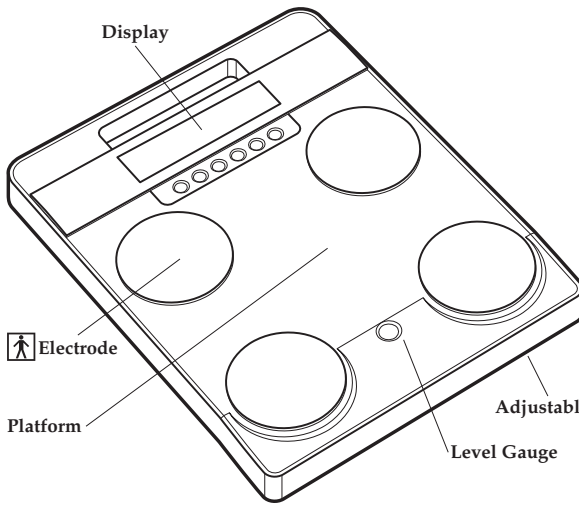
**Update settings, replace items, or call for service as necessary according to the results of the visual inspections. Do not use the unit if you see any signs of damage. Product that has been damaged must be checked for proper operation by qualified personnel before using again.**

# Part Names & Accessories

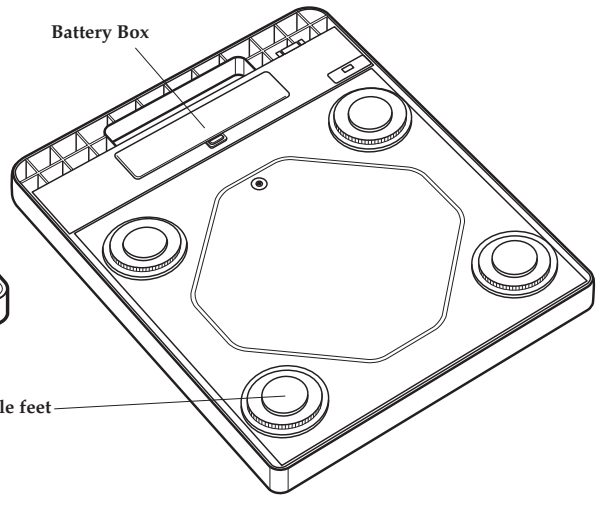
en

Before use  
(Part Names & Accessories)

## Front

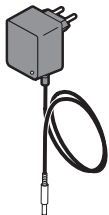


## Back



### Accessories

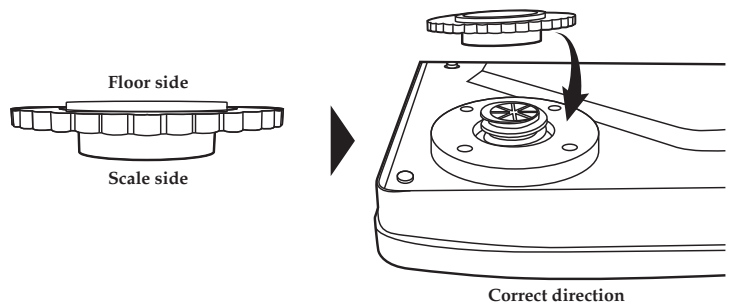
- Instruction manual (this book)
- AC adapter (ATM012T-W090V)



### The correct direction of the adjustable feet

If the adjustable feet came off, attach these in the direction of the following figure.

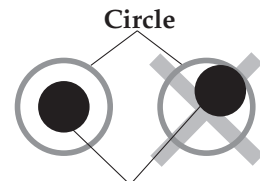
The product will not work if attached incorrectly.



### Level gauge check

\* For accurate measurement, place the machine as level as possible.

\* Rotate the adjustable feet in 4 positions for adjustment so that the bubble of the level gauge reach the centre.



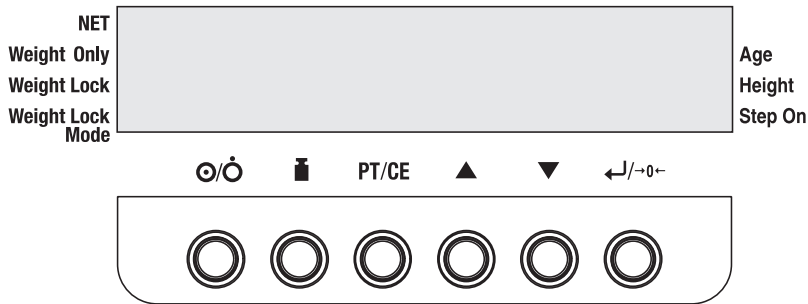
**Air bubble**

In the state that the level gauge is viewed from the top



# Names and Functions of Display Panel & Operation Keys

## Meanings of the Display Panel & Operation Keys



NET	Indicates that the clothes weight is input
Weight Only	Indicates that the Weight Only (Scale) Mode
Weight Lock	Indicates that the Weight is locking
Weight Lock Mode	Indicates that the Weight Lock function is activated
Age	Indicates that the age is input
Height	Indicates that the height is input
Step On	Indicates that the measuring start

	Power ON		Power OFF		Select measurement mode
<b>PT</b>	Set preset tare value (Clothes weight)	<b>CE</b>	Clear input value		Value up
	Value down		Confirm the entered value		Reset zero point
	Male		Female		Athletic mode

## Symbols and their Meanings

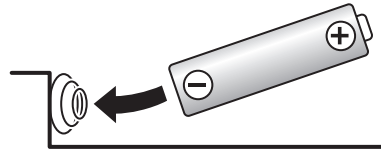
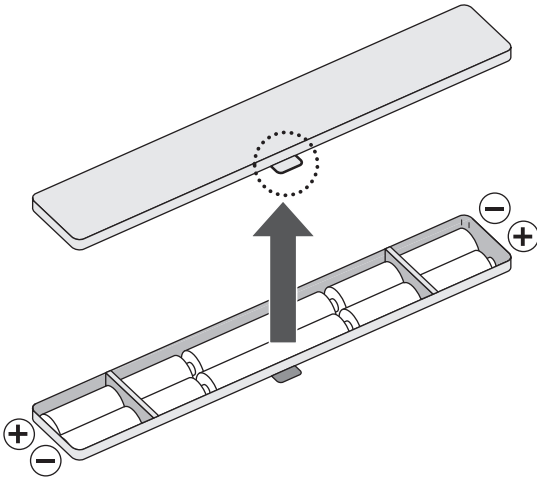
	Conformity with Medical Device Directive 93/42/EEC		Alternating current		NAWI accuracy class III
	Direct current		Class II Equipment		Type BF applied part
	Polarity of DC power connector		Polarity of a battery		Input, Output
	WEEE - Waste Electrical and Electronic Equipment Directives		Manufacturer (Date of manufacture)		For indoor use only
	Caution. Refer to the attached information		See the instructions		Serial number

# Preparation

en

Before use  
(Preparation)

## <Using batteries>



Required

- Please change the batteries LR6 (AA) carefully to avoid dropping them on your feet.
- Ensure that the batteries are inserted with the correct polarity  $\oplus / \ominus$ . If the polarity is incorrect, then the batteries may leak and damage the product.
- When not in use for a long time, remove the batteries before storing the product.
- $\text{L} \square$  is displayed when battery power is running out. Promptly replace with six new batteries.

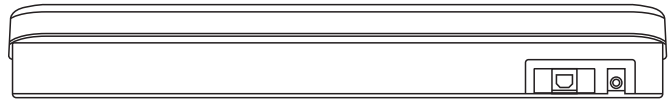


Prohibited

- Do not use old batteries together with new batteries, or a mix of different types of batteries at the same time.
- Do not replace with wet hands. Do not allow water to contact or spill on the battery box.

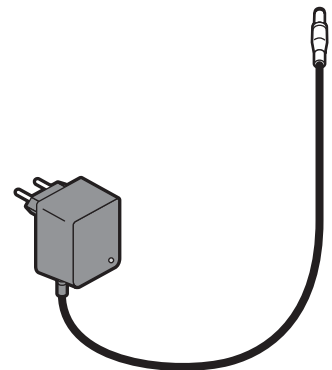
## <Using the AC adapter>

- (1) Insert the AC adapter jack into the AC adapter inlet on the right side of the main unit.
- (2) Plug the AC adapter into the power outlet.



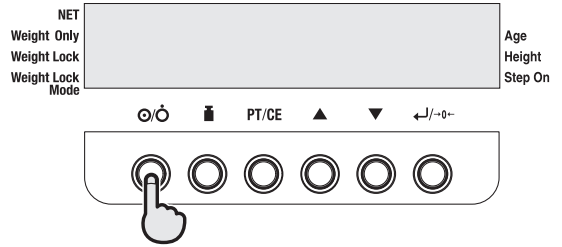
Required

- This product must be used with the designated AC adapter (model: ATM012T-W090V)
- Please observe the following instructions for accurate measurement. Measurement may not be possible on the unstable environment. During weight measurement, please don't touch any connecting cable such as an AC Adapter cable and PC communication cable to avoid causing unstable scale installation.



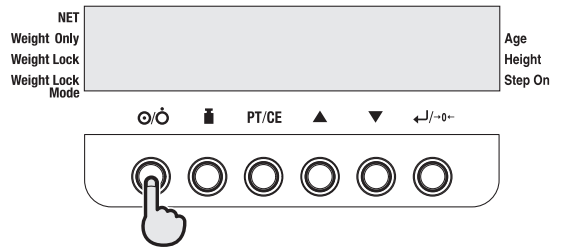
## When turn on the power;

Press  to turn on the power.



## When turn off the power;

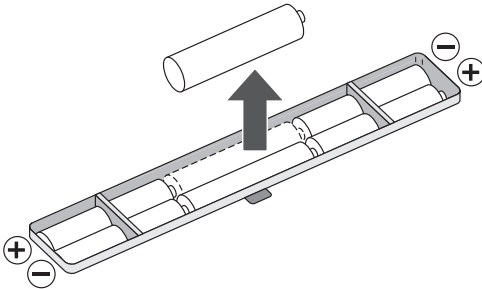
Press  to turn off the power.



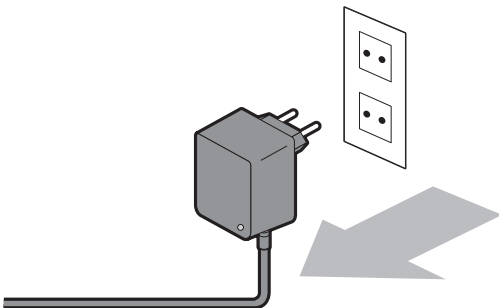
## Emergency Shutdown

Pull out the batteries or AC adapter in case of an emergency.

### <When using the batteries>



### <When using the AC Adapter>



For emergency, keep clear around the outlet during operating this product.

# Various setting

Call up the setting mode.

**1** Press  $\odot/\odot$  to turn on the power.

**2** Press  $\leftarrow/J/-0\leftarrow$  for 1 second.

SET 0 is displayed.

**3** Select the setting items.

- 1) by  $\blacktriangle$  or  $\blacktriangledown$ ,
- 2) and  $\leftarrow/J/-0\leftarrow$  key.

**SET0** Check the software version.

**SET1** Set ON / OFF of the beep sound.  
(0.off or 1.on)

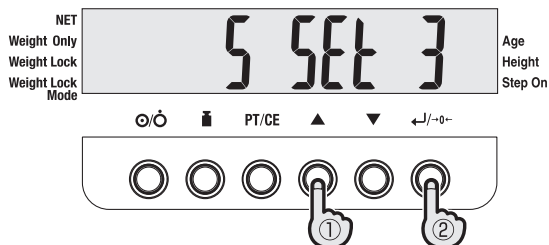
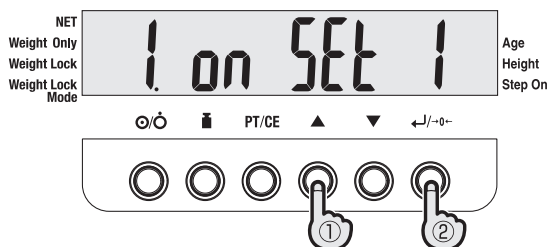
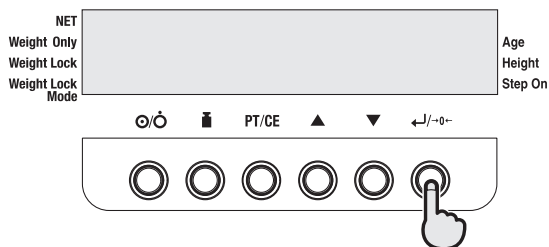
**SET2** Set ON / OFF of the athlete selection.  
(0.off or 1.on)

**SET3** Set the automatic determination time when inputting.  
(input range 0-9 seconds)  
\* "0" automatic determination function deactivate.

**SET4** Set the automatic power off time.  
(0, 5, 10, 30, 60 minutes)  
\* "0" automatic power off function deactivate.

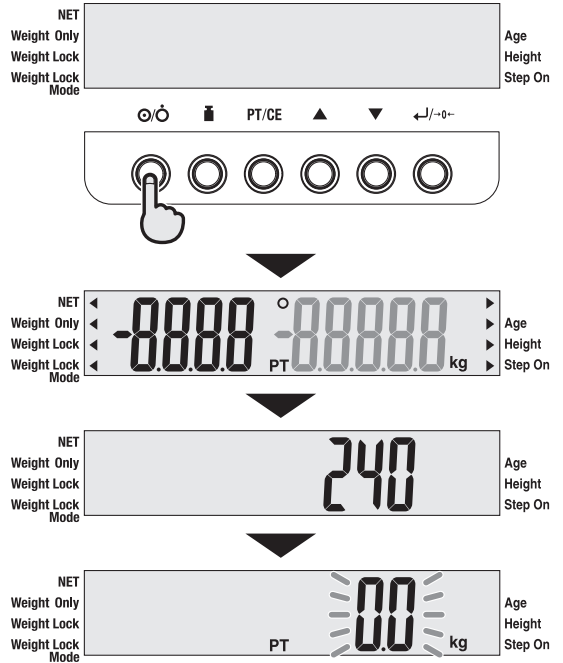
**4** Input the setting value.

- 1) by  $\blacktriangle$  or  $\blacktriangledown$ ,
- 2) and  $\leftarrow/J/-0\leftarrow$  key.



# How to use (Mode selection)

1 Press to turn on the power.

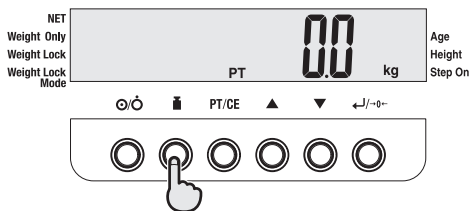


Model name is displayed.

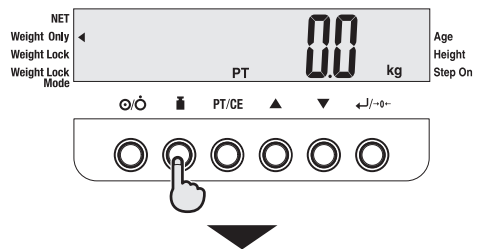
is displayed (Body composition analyzer).

Mode is selected by key.

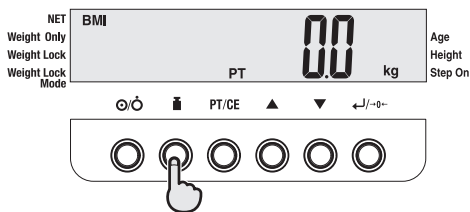
Body composition ( P.14)



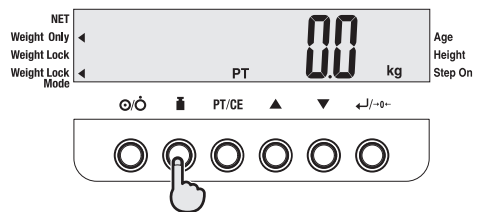
Scale ( P.17)



Scale (BMI Mode) ( P.19)



Scale (Weight lock) ( P.18)



en

How to use  
(Mode selection)

# How to use (Body composition analyzer)

en

How to use  
(Body composition analyzer)

**1** Press  $\odot/\odot$  to turn on the power.

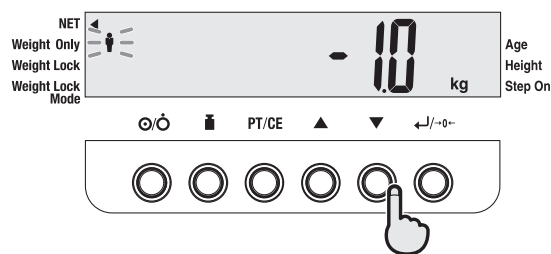
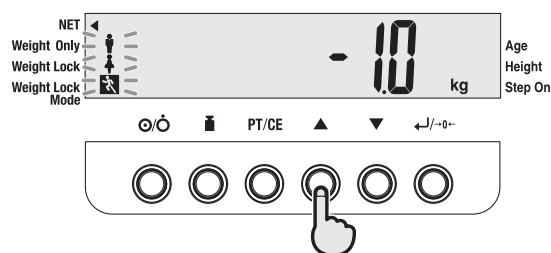
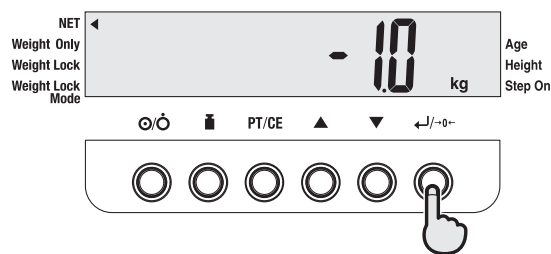
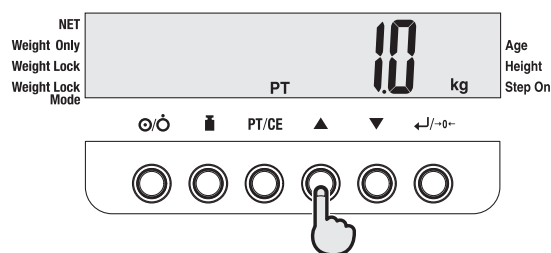
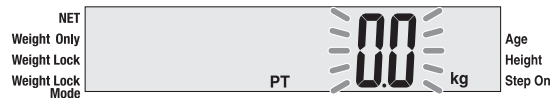
**2** Check that the Body composition analyzer mode is selected (☞ P.13).

**3** Input the clothes weight.

- 1) by ▲ or ▼,
- 2) and ←/→ key
- \* PT/CE → clear the input.

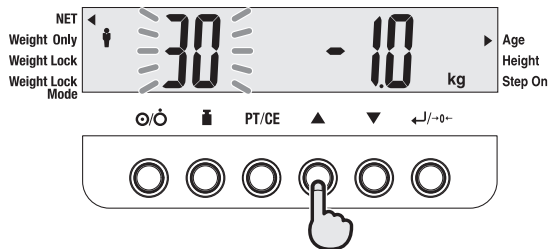
**4** Select the Body type and Gender.

- 1) by ▲ or ▼,
- 2) and ←/→ key
- \* PT/CE → return to previous status.



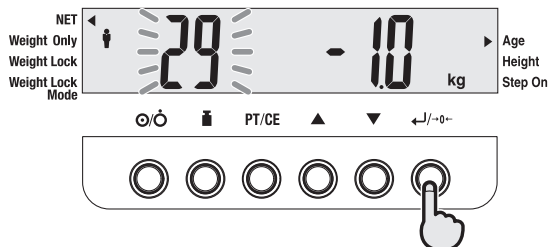
## 5 Input the age

1) by ▲ or ▼,



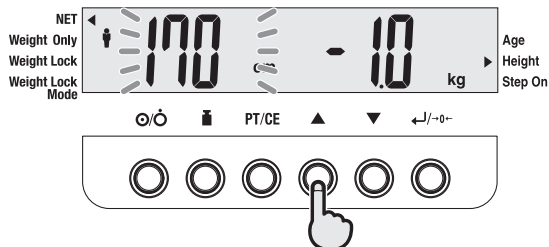
2) and ←J/-0- key

\* PT/CE → return to previous status



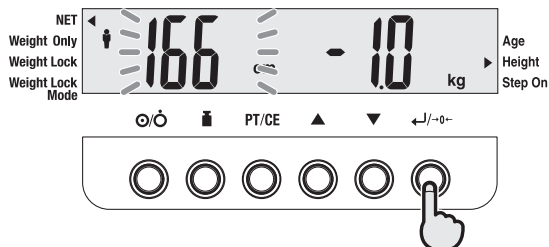
## 6 Input the height

1) by ▲ or ▼,



2) and ←J/-0- key

\* PT/CE → return to previous status



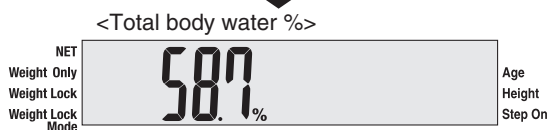
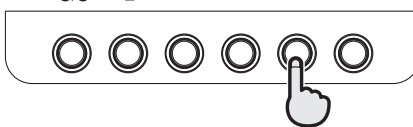
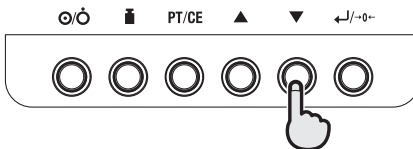
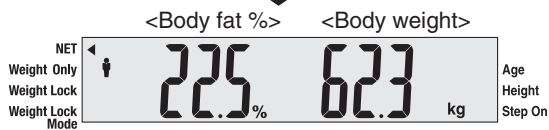
# How to use (Body composition analyzer) (Continue)

en

**7** Step on the platform with bare feet, after "Step on" flashing.



**8** Measurement completion.



\* PT/CE, ←/→ → Clear the displayed result

How to use  
(Body composition analyzer)



# How to use (Scale)

en

How to use  
(Scale)

**1** Press  $\odot/\odot$  to turn on the power.

**2** Check that the Weight only mode is selected (☞ P.13).

**3** Input the clothes weight.

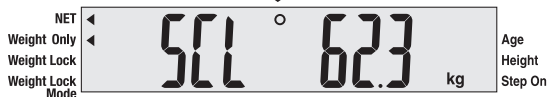
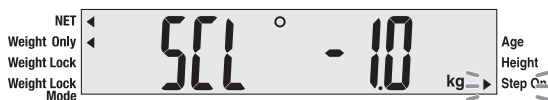
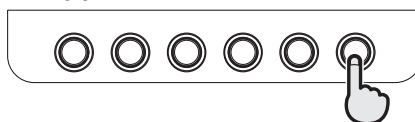
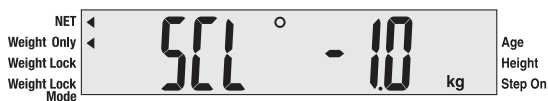
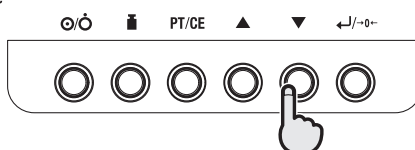
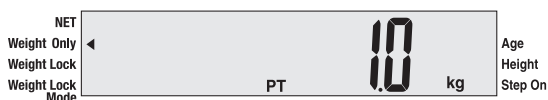
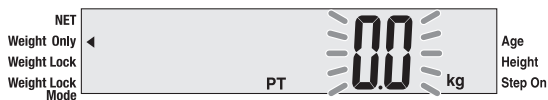
1) by  $\blacktriangle$  or  $\blacktriangledown$ ,

2) and  $\leftarrow/0-$  key

\* PT/CE  $\rightarrow$  clear the input.

**4** Step on the platform, after "Step on" flashing.

**5** Measurement completion.



# How to use (Scale • Weight Lock Mode)

Activation of Weight lock function.

en

**1** Press  $\odot/\odot$  to turn on the power.

**2** Check that the Weight only mode (Weight lock mode) is selected (P.13).

**3** Input the clothes weight.

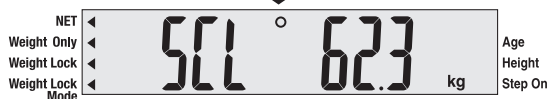
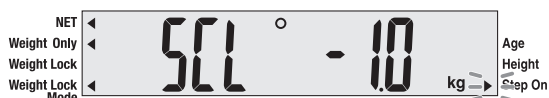
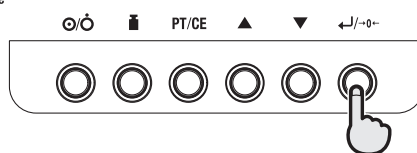
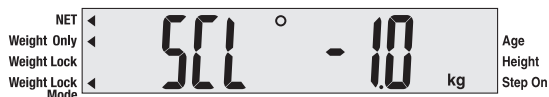
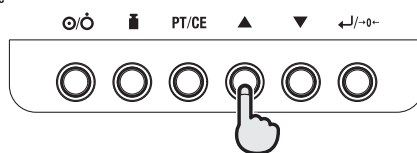
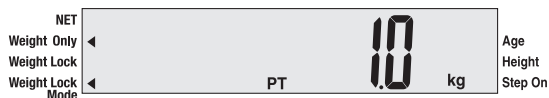
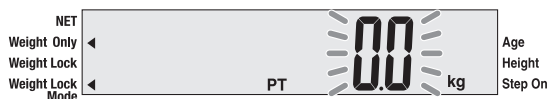
1) by  $\blacktriangle$  or  $\blacktriangledown$ ,

2) and  $\leftarrow/\rightarrow$  key

\* PT/CE  $\rightarrow$  clear the input.

**4** Step on the platform, after "Step on" flashing.

**5** Measurement completion.  
\*  $\leftarrow/\rightarrow$   $\rightarrow$  Clear the displayed result



How to use  
(Scale • Weight Lock Mode)

# How to use (BMI Mode)

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How to use  
(BMI Mode)

**1** Press  $\odot/\odot$  to turn on the power.

**2** Check that the BMI mode is selected (☞ P.13).

**3** Input the clothes weight.

1) by  $\blacktriangle$  or  $\blacktriangledown$ ,

2) and  $\leftarrow/0-$  key

\* PT/CE  $\rightarrow$  clear the input.

**4** Input the height

1) by  $\blacktriangle$  or  $\blacktriangledown$ ,

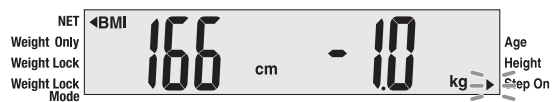
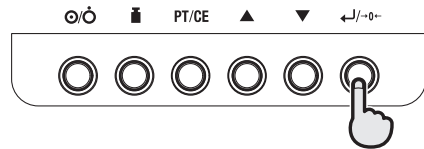
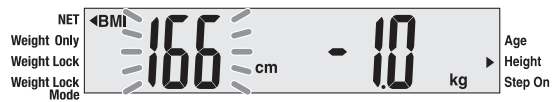
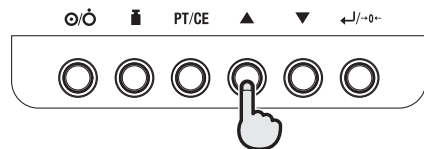
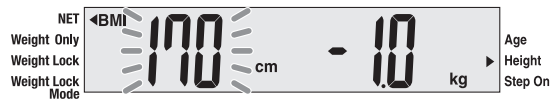
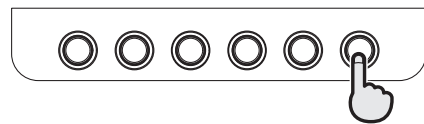
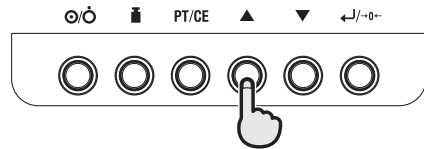
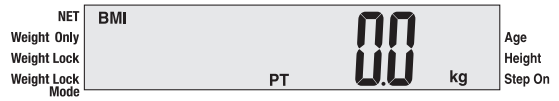
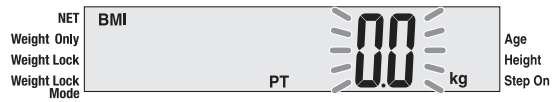
2) and  $\leftarrow/0-$  key

\* PT/CE  $\rightarrow$  return to previous status

**5** Step on the platform, after "Step on" flashing.

**6** Measurement completion.

\* PT/CE,  $\leftarrow/0-$   $\rightarrow$  Clear the displayed result





## What is total body water percentage?

**Total Body Water Percentage is the total amount of fluid in a person's body expressed as a percentage of their total weight.** Water plays a vital role in many of the body's processes and is found in every cell, tissue and organ. Maintaining a healthy total body water percentage will ensure the body functions efficiently and will reduce the risk of developing associated health problems.

Your body water levels naturally fluctuate throughout the day and night. Your body tends to be dehydrated after a long night and there are differences in fluid distribution between day and night. Eating large meals, drinking alcohol, menstruation, illness, exercising, and bathing may cause variations in your hydration levels.

Your body water percentage reading should act as a guide and should not be used to specifically determine your absolute recommended total body water percentage. It is important to look for long-term changes in total body water percentage and maintain a consistent, healthy total body water percentage.

Drinking a large quantity of water in one sitting will not instantly change your water level. In fact, it will increase your body fat reading due to the additional weight gain. Please monitor all readings over time to track the relative change.

Every individual varies but as a guide the average total body water percentage ranges for a healthy adult are:

**Female:** 45 to 60%

**Male :** 50 to 65%

**Source :** Based on Tanita's Internal Research

**Note:** The total body water percentage will tend to decrease as the percentage of body fat increases. A person with a high percentage of body fat may fall below the average body water percentage. As you lose body fat the total body water percentage should gradually move towards the typical range given above.

## Explanation of terminology

This product and the attached instruction manual use expressions including terminology sited in the NAWI directive. Please review the following terminology explanations before use.

- **Max (Maximum capacity)**

This shows the maximum weight that can be measured by the scale.

**[Example]** In the case of "Max = 200kg", it can be used to measure an individual up to 200kg.

\* Individuals exceeding the weight capacity cannot be measured.

- **e (Minimum graduation)**

This shows the amount of one scale mark (graduation). In the case of a digital display, this shows the numeric interval value.

**[Example]** In the case of e = 0.1kg", the display increases or decreases in intervals of 0.1kg.

- **PT**

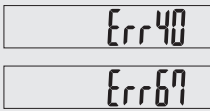


To measure the body weight more accurately, the "Preset Tare Deduction" function automatically subtracts the pre-input weight of the clothes (TARE). The pre-input weight of the clothes is called "Preset Tare" (PT).

# Troubleshooting

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- Please check the following before asking for repair.

When necessary  
(Troubleshooting)

	Symptom	Please check
How to measure	<b>Impedance measurement error</b> 	<ul style="list-style-type: none"> <li>• Measure with bare feet.</li> <li>• If the soles of the feet are dry, use a dropper to apply about 0.5 mL of water before measurement.</li> <li>• Check the input information.</li> </ul>
	<b>Zero point error</b> 	<ul style="list-style-type: none"> <li>• Turn off the power, and remove the items on the platform and turn on the power again, and then redo the measurement.</li> </ul>
	<b>The measured weight is not stable.</b>	<ul style="list-style-type: none"> <li>• Is it installed at a place with vibrations?</li> <li>• Is the platform inclined? ⇒ Keep the platform horizontal. (☞ P.8)</li> <li>• Is anything caught in the gaps of the platform? ⇒ Remove anything caught in the gaps.</li> </ul>
Display part	<b>Nothing is displayed even after turning on the power.</b>	<ul style="list-style-type: none"> <li>• Check that the power supply is connected correctly.</li> </ul>
	 is displayed.	<ul style="list-style-type: none"> <li>• The weight to measure exceeds the measurement range.</li> </ul>



# Specifications

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<b>Model</b>		DC-240MA
<b>Classification</b>	MDD	Class IIa
<b>Accuracy class</b>	NAWI	Class III
<b>Power source</b>	AC adapter (ATM012T-W090V Class II)	CONTINUOUS OPERATION Input: 100-240V AC 50-60Hz 0.32-0.19A Output: 9V DC 1.2A
	Battery	9V DC LR6 (AA alkaline battery)×6 (Not included)
<b>Electric current range</b>		10.8VA
<b>Power Consumption</b>		0.5W
<b>Impedance Measurement</b>	<b>Measurement System</b>	Dual-frequency 4 electrode
	<b>Measurement Frequency</b>	5 kHz / 50 kHz
	<b>Measurement Current</b>	90μA or less
	<b>Measurement Range</b>	150-1000Ω
<b>Weight Measurement</b>	<b>Measurement System</b>	Strain Gauge Load Cell
	<b>Maximum Capacity</b>	200kg
	<b>Minimum Graduation</b>	0.1kg
<b>Input Items</b>	<b>Clothes Weight</b>	0-10kg/0.1kg increments
	<b>Gender</b>	Female/Male
	<b>Body Type</b>	Standard / Athletic
	<b>Age</b>	5-99 years (Standard)/18-99 years (Athletic)
	<b>Height</b>	90-249cm/1cm increments
<b>Output Items</b>	<b>Weight</b>	0-200.0kg/0.1kg increments
	<b>Body Fat %</b>	3-75%/0.1% increments
	<b>BMI</b>	0.1 increments
	<b>Total body water %</b>	15 - 85%/0.1% increments
<b>Interface Connections</b>		USB
<b>Product Weight</b>		4.7kg
<b>Size</b>		341x437x54mm

The product design and specifications may be changed at any time without prior notice.



This product meets the following requirements;

1. Medical Device Directive (93/42/EEC)
2. Non-Automatic Weighing Instruments (2014/31/EU)
3. RoHS Directive (2011/65/EU)

## Disposal



This equipment is electronic device. Please dispose of this equipment appropriately as not the general household waste but electronic equipment. Please follow a regional regulation when you dispose of this.

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