

# Mitsukota Instrument Co. Ltd.



*Colours may vary*

## 40kg Digital Commercial Kitchen Scales

### User Manual

[Revision 1.0 May 2019]

---

READ THIS MANUAL CAREFULLY BEFORE USE – FAILURE TO DO SO MAY RESULT IN INJURY, PROPERTY DAMAGE AND MAY VOID WARRANTY. • KEEP THIS MANUAL FOR FUTURE REFERENCE. • Products covered by this manual may vary in appearance, assembly, inclusions, specifications, description and packaging.

---

# Safety

Safety messages are designed to alert you to possible dangers or hazards that could cause death, injury or equipment or property damage if not understood or followed. Safety messages have the following symbols:



You **WILL** be KILLED or SERIOUSLY INJURED if you do not follow instructions.



You **CAN** be KILLED or SERIOUSLY INJURED if you do not follow instructions.



You **CAN** be INJURED if you do not follow instructions or equipment damage may occur.

It is vital that you read and understand this user manual before using the product, including safety warnings, and any assembly and operating instructions. Keep the manual for future reference.

Safety precautions and recommendations detailed here must be fully understood and followed to reduce the risk of injury, fire, explosion, electrical hazard, and/or property damage.

Safety information presented here is generic in nature – some advice may not be applicable to every product. The term "equipment" refers to the product, be it electrical mains powered, battery powered or combustion engine powered.

- Before Use** - If you are not familiar with the safe operation/handling of the equipment or are in any way unsure of any aspect of suitability or correct use for your application, you should complete training conducted by a person or organization qualified in safe use and operation of this equipment, including fuel/electrical handling and safety.
- Do NOT operate the equipment in flammable or explosive environments, such as in the presence of flammable liquids, gases or dust. The equipment may create sparks or heat that may ignite flammable substances.
- Keep clear of moving parts.
- Equipment may be a potential source of electric shock or injury if misused.
- Do NOT operate the equipment if it is damaged, malfunctioning or is in an excessively worn state.
- Do NOT allow others to use the equipment unless they have read this manual and are adequately trained.
- Keep packaging away from children - risk of suffocation! Operators must use the equipment correctly. When using the equipment, consider conditions and pay due care to persons and property.

## General Work Area Safety

- Work areas should be clean and well lit.
- Do not operate the equipment if bystanders, animals etc are within operating range of the equipment or the general work area.
- If devices are provided for connecting dust extraction / collection facilities, ensure these are connected and used properly. Dust collection can reduce dust-related hazards.

## General Personal Safety

- Wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect from eye and ear injury, poisoning, burns, cutting and crush injuries. Protective equipment such as safety goggles, respirators, non-slip safety footwear, hard hat, hearing protection etc should be used for appropriate equipment / conditions. Other people nearby should also wear appropriate personal protective equipment. Do not wear loose clothing or jewellery, which can be caught in moving parts. Keep hair and clothing away from the equipment.
- Stay alert and use common sense when operating the equipment. Do not over-reach. Always maintain secure footing and balance.
- Do not use the equipment if tired or under the influence of drugs, alcohol or medication.
- This equipment is not intended for use by persons with reduced physical, sensory or mental capabilities.

## General Fuel Safety

- Petrol/fuel/gasoline is extremely flammable – keep clear of naked flames or other ignition sources.
- Do not spill fuel. If you spill fuel, wipe it off the equipment immediately – if fuel gets on your clothing, change clothing.
- Do NOT smoke near fuel or when refuelling.
- Always shut off the engine before refuelling.
- Do NOT refuel a hot engine.
- Open the fuel cap carefully to allow any pressure build-up in the tank to release slowly.
- Always refuel in well ventilated areas.
- Always check for fuel leakage. If fuel leakage is found, do not start or run the engine until all leaks are fixed.

## General Carbon-Monoxide Safety

- Using a combustion engine indoors **CAN KILL IN MINUTES**. Engine exhaust contains carbon-monoxide – a poison you cannot smell or see.
- Use combustion engines **OUTSIDE** only, and far away from windows, doors and vents.

## General Equipment Use and Care

- The equipment is designed for domestic use only.
- Handle the equipment safely and carefully.
- Before use, inspect the equipment for misalignment or binding of moving parts, loose components, damage or any other condition that may affect its operation. If damaged, have the equipment repaired by an authorised service centre or technician before use.
- Prevent unintentional starting of the equipment - ensure equipment and power switches are in the OFF position before connecting or moving equipment. Do not carry equipment with hands or fingers touching any controls. Remove any tools or other items that are not a part of the equipment from it before starting or switching on.
- Do not force the equipment. Use the correct equipment for your application. Equipment will perform better and be safer when used within its design and usage parameters.
- Use the equipment and accessories etc. in accordance with these instructions, considering working conditions and the work to be performed. Using the equipment for operations different from those intended could result in hazardous situations.
- Always keep equipment components (engines, hoses, handles, controls, frames, housings, guards etc) and accessories (cutting tools, nozzles, bits etc) properly maintained. Keep the equipment clean and, where applicable, properly lubricated.
- Store the equipment out of reach of children or untrained persons. To avoid burns or fire hazards, let the equipment cool completely before transporting or storing. Never place or store the equipment near flammable materials, combustible gases or liquids etc.
- The equipment is not weather-proof, and should not be stored in direct sunlight, at high ambient temperatures or locations that are damp or humid.
- Do not clean equipment with solvents, flammable liquids or harsh abrasives.
- For specific equipment safety use and care, see Equipment Safety.

General Electrical Safety	General Electrical Safety	General Service Information
<ul style="list-style-type: none"> <li>Inspect electrical equipment, extension cords, power bars, and electrical fittings for damage or wear before each use. Repair or replace damaged equipment immediately.</li> <li>Ensure all power sources conform to equipment voltage requirements and are disconnected before connecting or disconnecting equipment.</li> <li>When wiring electrically powered equipment, follow all electrical and safety codes.</li> <li>Wherever possible, use a residual current device (RCD).</li> <li>High voltage / high current power lines may be present. Use extreme caution to avoid contact or interference with power lines. Electrical shock can be fatal.</li> </ul>	<ul style="list-style-type: none"> <li>Electrically grounded equipment must have an approved cord and plug and be connected to a grounded electrical outlet.</li> <li>Do NOT bypass the ON/OFF switch and operate equipment by connecting and disconnecting the electrical cord.</li> <li>Do NOT use equipment that has exposed wiring, damaged switches, covers or guards.</li> <li>Do NOT use electrical equipment in wet conditions or in damp locations.</li> <li>Do NOT use electrical cords to lift, move or carry equipment.</li> <li>Do NOT coil or knot electrical cords, and ensure electrical cords are not trip hazards.</li> </ul>	<ul style="list-style-type: none"> <li>The equipment must be serviced or repaired at authorised service centres by qualified personnel only.</li> <li>Replacement parts must be original equipment manufacturer (OEM) to ensure equipment safety is maintained.</li> <li>Do NOT attempt any maintenance or repair work not described in this manual.</li> <li>After use, the equipment and components may still be hot – allow the equipment to cool and disconnect spark plugs and/or electrical power sources and/or batteries from it before adjusting, changing accessories or performing repair or maintenance.</li> <li>Do NOT adjust while the equipment is running.</li> <li>Perform service related activities in suitable conditions, such as a workshop.</li> <li>Replace worn, damaged or missing warning/safety labels immediately.</li> </ul>

### Product Safety

#### Battery

- The battery must be recharged properly after use. Normally, charge for 1.2 hr for each use.
- If it was not used for some time; charge it continuously for at least 24 hours. Otherwise, it will damage to battery.
- Never connect battery in reverse polarity. Ensure that the scale's + polarity is connected with battery the + positive and scale's - negative polarity is connected with Battery - negative.
- Before you begin to charge battery, please turn off the scale first.

#### Water/Temperature

- Protect your scale from heavy rain, and direct sunlight, temperature must not exceed above 50 deg. C. This scale is not waterproof.

#### Humidity

- Protect it from moisture; DO NOT install near humidifier.

#### Magnetic Field

- Do not install your scale near strong magnetic field. It may damage delicate parts of your scale.

#### Repair / Maintenance

- Do not try to open the scale by yourself OR by unauthorized technical person. This may damage the scale permanently. Always contact your nearest dealer/ service station for emergency repairs.

# Safety Symbols

The product may have safety warning labels attached to it, explained below. Understand the symbols on your product and their meanings. If any stickers become unreadable, unattached etc., replace them.

			 WARNING EXHAUST FUMES
			
			
			
			

			
<b>Carbon-Monoxide Hazard</b> Do not use the product in confined areas or without adequate ventilation. Carbon-monoxide poisoning can be fatal.	<b>Pull Hazard</b> Be aware that the product contains or uses mechanical devices that can pull in objects and can cause severe injury to fingers, limbs etc. Take due care when handling and using the product.	<b>Slope / Fall Injury Hazard</b> Be aware that using the product on sloping surfaces or in slippery conditions may present additional dangers from falls and contact with blades, moving parts, hot surfaces etc.	<b>"Slam Dunk" Warning</b> Do NOT attempt "slam dunk" manoeuvres as this may result in severe injury due to falling, product breakage or collapse etc.
			
<b>Electrocution / Electrical Shock Hazard - Outdoor</b> High voltage or high current electricity may be present or required by the product. Do NOT use in rain, damp or wet conditions. Electrical shock can be fatal.	<b>Electrocution / Electrical Shock Hazard - Disconnect</b> High voltage or high current electricity may be present or required by the product. Always disconnect the product from the electrical supply before handling the product, adjusting, maintenance etc.	<b>Power Line Electrocution Hazard</b> High voltage / high current power lines may be present. Use extreme caution to avoid contact or interference with power lines. Electrical shock can be fatal.	<b>"Kick-Back" Hazard</b> High level of "kick-back" hazard that can cause the machine to suddenly rotate towards operator. Kick-back injury can be fatal.
			
<b>Winch Operator Position Hazard</b> Do NOT stand between winch and load. Do NOT use winch to move people.	<b>Winch Lift Hazard</b> Do NOT LIFT load vertically. Use machine to PULL only.	<b>Cable Hazard</b> Ensure that load bearing cable is not kinked or knotted.	<b>Winch Cable Hazard</b> Ensure that there is a minimum number of cable coils on winching mechanism.
			
<b>Winch Hook Hazard</b> Carry hook to load – do NOT throw or run.	<b>Flash / Blinding Hazard</b> Wear appropriate eye protection for welding. Direct exposure to weld arcs may cause permanent eye injury.	<b>Laser Hazard</b> Laser may be in use – do NOT look directly at laser or allow others to.	

# Table of Contents

<b>Safety</b> .....	<b>2</b>
Safety Symbols .....	4
<b>Introduction</b> .....	<b>7</b>
<b>Descriptions</b> .....	<b>8</b>
Key Description .....	8
Display Description .....	8
Display Indicators .....	8
<b>Operation</b> .....	<b>9</b>
General Instructions .....	9
Basic Operation .....	9
Zero the scale .....	9
Weighing .....	9
Tare .....	9
Overload Warning .....	9
Unit Price Setting .....	9
Accumulator Operation .....	9
Prepare to Accumulate .....	9
Accumulation Operation .....	10
Accumulate Clear .....	10
Unit Price Storage .....	10
Store the Unit Price .....	10
Load the Unit Price .....	10
<b>Troubleshooting</b> .....	<b>11</b>
<b>Specifications</b> .....	<b>12</b>

# Introduction

The Mitsukota digital commercial kitchen scale is an accurate measuring equipment most suitable for super markets, grocery stores and other retail outlets.

This scale is made using highly accurate and precise sensors. It has a capacity to store up to 8 unit prices and 99 accumulation memory. It is a versatile machine; because it also runs on rechargeable battery. The scale will also automatically switch off when it is not used to save power.

Please read all operating instructions carefully before use. Scales are precision instruments and should always be handled with proper care. To ensure years of reliable service, keep these simple tips in mind:

- Do not exceed the scales maximum capacity. Overloading your scale can permanently damage it!
- Avoid exposure to extreme heat or cold. Scales perform best at normal room temperature.
- If temperatures have changed dramatically, recalibration may be necessary.
- Store your scale in a clean, dry location. Dust, dirt, and moisture can accumulate on the weighing sensors and electronics causing inaccuracy or malfunction.
- Avoid using your scale near strong radio wave emitting devices such as cordless phones.
- Always weigh on a flat and level surface, free from vibrations and drafts. The corner of a room is usually the most stable.
- Handle with care. Gently apply all items to be weighed onto the weighing surface. Although this scale is designed to be quite durable, avoid rough treatment as this may permanently damage the internal sensor.

# Descriptions

## Key Description

<b>Zero</b>	The ZERO key zeroes the scale.
<b>Tare</b>	The TARE key subtracts tare values and changes the digital scale from gross mode (no tare) to net mode.
<b>Store</b>	The STORE key stores the data in your scale.
<b>Add</b>	The Add key will store and accumulate the value of weight and amount.
<b>M1 to M8</b>	Stores unit price value at 8 different locations.
<b>C</b>	The C key is used for canceling the memorized data.
<b>0 – 9</b>	The NUMERIC keys (0 – 9) are used for setting unit price data.

.

Sets the decimal position of the unit price.

## Display Description

### Display Indicators

- Tare indicator: The **TARE LED** is located on the left side below the Weight Window.
- Zero indicator: The **ZERO LED** is located on the right side below the Weight Window.
- Low Battery Indicator: Low Battery Indicator is located below the Unit Price Window.
- AC power indicator: AC Power **LED/LCD** is located below the Total Price Window.

# Operation

## General Instructions

1. When battery goes low, the "Low Battery" indicator will be turned on automatically. It is the time to charge the battery with the AC power.
2. Before using the digital scale, please check if the bubble is in the middle of the level; if not, please make appropriate adjustment.
3. For better results, allow the digital scale to warm-up for 10 minutes after switching the power on.

## Basic Operation

### Zero the scale

If there is no item on the scale and the reading is not zero, press the ZERO key to turn on the ZERO indicator.

### Weighing

Place an item to weigh on the pan; Ensure that the scale is in ZERO position and that the ZERO indicator is glowing. The Weight Window will then display the weight of the item.

### Tare

Put the container on the platter. Once the weight reading is stable, press the **TARE** key. The **TARE** Indicator will be turn on and the container's weight will be deducted. When it is time to clear the **TARE**, remove the container, and press the **TARE** key again.

### Overload Warning

Please do not add items which are over the maximum capacity. When the scale is ringing an alarm, remove the item on the platter to avoid damage to the load cell.

### Unit Price Setting

To trade with your Mitsukota digital commercial kitchen scale, it is necessary to set the unit price of the goods. EPS-1 PR would then use this unit price to determine the value of the goods (placed on the platter).

When the digital scale displays the weight of the goods placed on the scale, set the unit price by using the numeric keys. The unit price set is shown on the **UNIT PRICE** window display. The total price of the goods is displayed on the **TOTAL PRICE** window. To cancel the previous unit price created, press the **C** key.

## Accumulator Operation

### Prepare to Accumulate

Each time before accumulating, please make sure that the platter is empty. The current accumulator values will be reset to zero, making the weight reading stable.

## Accumulation Operation

Put the weighing item on the platter. Wait for the weight reading to be stable, and then press the Add key. The window will show Add n as the number of times a count operation has been performed.

If the Unit Price is entered for that item, the accumulate operation will show the total of the Weight as well as the Price as follows:

Place an item on Platter, allow the scale reading to be stable; enter unit price using numeric keys, Unit price window will show the Unit price and Total price window will show total price. Now, press Add key, it will store the value of weight and price both. Now, remove the first item from the platter, place another item on the scale; allow it to be stable, Enter Unit price using numeric keys, after observing Unit price and Total price, press Add key again. The Unit price window will flash Add and weight window as well as Total price window will show accumulated weight and accumulated price respectively.

You can carry on this way for 99 times with your Mitsukota digital electronic platform scale.

## Accumulate Clear

You can clear the accumulated value by pressing **C** (Clear) key at any time.

## Unit Price Storage

Mitsukota digital electronic platform scale can store 8 sets unit price.

### Store the Unit Price

Press STORE key; then enter desired unit price using numeric keys. Now press **M\*** (\*= 1 to 8) key. The value will be stored into respective **M\*** (\*= 1 to 8) key. If you have already entered any value in that key, it will be replaced by the new value.

### Load the Unit Price

If you want to use the unit price stored in the kitchen scale, while weighing; press respective **M\*** (\*= 1 to 8) key after the weighing display is stable. The Unit price will be loaded and it will be displayed In Unit Price Window.

# Troubleshooting

Issue	Cause	Possible Reason	Remedy
AC lamp is not glowing.	Power may not be connected.	<ul style="list-style-type: none"> <li>▪ The mains plug may be disconnected.</li> <li>▪ The power cable is damaged.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Insert the power plug or replace it, if damaged.</li> <li>▪ Change the power cable.</li> </ul>
Scale is not turning on with battery.	There is no DC power supply to the scale.	<ul style="list-style-type: none"> <li>▪ The storage battery is damaged.</li> <li>▪ Reverse polarity.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Replace the battery.</li> <li>▪ Ensure that connections are in good condition.</li> </ul>
Over-voltage LED glows, alarms and automatically turns off.	Over-voltage.	Battery is in use for too long.	<ul style="list-style-type: none"> <li>▪ Charge the battery.</li> <li>▪ Change the battery, if damaged.</li> </ul>
Weight reading is unstable.	Over-voltage or affected by moisture.	Insufficient voltage OR use of battery is prolonged even after the warning alarm OR too much humidity in the environment.	Charge the battery for at least 10 hours or clean the PCB by drying.

# Specifications

<b>Capacity</b>	40kg with 1g increment
<b>Pan size</b>	34.5 x 23.5cm
<b>Precision</b>	1/13000 F.S.
<b>Product Accumulation Operation</b>	0-99
<b>Display Window Weight</b>	5 digits
<b>Unit price</b>	5 digits
<b>Total price</b>	6 digits
<b>Certification</b>	CE
<b>Power Plug</b>	Australian Standard



**Some experts believe that the incorrect or prolonged use of almost any product may cause serious injury or death. To help reduce your risk of serious injury or death, refer to the information below. For more information, see [www.datastreamserver.com/safety](http://www.datastreamserver.com/safety)**

- Consult all documentation, packaging and product labelling before use. Note that some products feature documentation available online. It is recommended to print and retain the documentation.
- Before each use, check the product for loose/broken/damaged/missing parts, wear or leaks (if applicable). Never use a product with loose/broken/damaged/missing parts, wear or leaks.
- Products must be inspected and serviced (if applicable) by a qualified technician every 6 months. This is based on average residential use by persons of average size and strength, and on a property of average metropolitan size. Use beyond these recommendations may require more frequent inspections/servicing.
- Ensure that all users of the product have completed a suitable industry recognised training course before being allowed access to the product.
- The product has been supplied by a general merchandise retailer that may not be familiar with your specific application or description of application. Be sure to attain third-party approval from a qualified specialist for your application before use, regardless of any assurances from the retailer or its representatives.
- This product is not intended for use where fail-safe operation is required. As with any product (for example, automobile, computer, toaster), there is the possibility of technical issues that may require the repair or replacement of parts, or the product itself. If the possibility of such failure and the associated time it may take to rectify could in any way inconvenience the user, business or employee, or financially affect the user, business or employee, then the product is not suitable for your requirements. This product is not intended for use where incorrect operation or a failure of any kind, including but not limited to, a condition requiring product return, replacement, parts replacement or service by a technician may cause financial loss, loss of employee time or an inconvenience requiring compensation.
- If this product has been purchased in error when considering the information presented here, contact the retailer directly for details of their returns policy, if required.

