

## Min Max Scale – Crate Version



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# 1. Introduction

Welcome to your new Industrial Weight Measuring Scale user manual. This document is intended to provide you with comprehensive instructions on the safe and effective operation of your new scale. Designed with precision and user experience in mind, this scale is an essential tool for your packaging lines, enabling you to maintain quality control by ensuring that the weight of your packaged fruit crates, boxes, or containers falls within a pre-programmed bandwidth.

The manual will guide you through the installation process, daily operation, and regular maintenance procedures for your scale. It also includes detailed explanations of the scale's features, such as the innovative weight indicator light system, which helps you quickly identify if a package's weight falls within the acceptable range.

In addition, you'll find troubleshooting tips and solutions to common issues, warranty information, and technical specifications in the following sections.

Please take some time to read this manual carefully before operating the scale. By doing so, you will gain a thorough understanding of how to use the scale to its full potential, thereby maximizing its longevity and ensuring the highest levels of safety and efficiency in your operations.

Remember, your understanding and adherence to the guidelines presented in this manual are crucial in guaranteeing the reliable performance of the scale and the safety of all users.

Brief overview of the scale and its features.

# 2. Safety Information

## Warnings about potential risks and hazards.

### 1. Electrical Shock:

Even though the scale operates at a low voltage, there is still a risk of electrical shock if the device is improperly used or if the user comes into contact with internal electrical components. Users should never attempt to open the device or modify it in any way.

### 2. Incorrect Readings:

Improper use or installation of the scale could lead to incorrect readings, which could have significant implications for the quality control of your packaging line.

### 3. Overloading:

Exceeding the maximum weight capacity of the scale can cause damage to the scale and potentially pose a safety risk. Always adhere to the stated weight limits of the device.

#### 4. Environmental Conditions:

The scale should not be used in extreme temperatures, high humidity, or in the presence of strong electromagnetic fields as these could affect the accuracy of measurements and potentially damage the device.

#### 5. Slip and Fall Hazard:

Items placed on the scale should be secure to prevent them from falling off and causing injury. Likewise, if the scale is positioned in a walkway, it could pose a tripping hazard.

#### 6. Improper Cleaning:

Using inappropriate cleaning solutions or methods can damage the scale and potentially pose a safety risk. Always follow the manufacturer's guidelines for cleaning and maintenance.

#### 7. Unauthorized Repairs:

Attempting to repair the scale without appropriate expertise can lead to malfunctioning of the device and pose safety risks. Always contact a certified service technician for repairs.

## 3. Cleaning and Maintenance - Safety Guidelines

Regular cleaning and maintenance of your Industrial Weight Measuring Scale are crucial to ensuring its accuracy, longevity, and safe operation. Please adhere to the following guidelines to keep your scale in optimal condition:

### Cleaning your Scale:

**Power Off:** Always turn off and unplug the scale before cleaning to avoid the risk of electrical shock.

**Use Appropriate Cleaning Solutions:** Use a mild, non-abrasive cleaning solution to clean the scale. Harsh chemicals or abrasive materials may damage the scale's components and affect its operation.

**Avoid Excessive Moisture:** Do not use excessive water or other liquids when cleaning the scale. This can cause damage to electronic components. Use a lightly dampened cloth for cleaning and ensure the scale is thoroughly dry before reconnecting power.

**Avoid Contact with the Display and Sensors:** Be cautious when cleaning the display and sensors. Use a soft, dry cloth for these sensitive components.

### Maintenance of your Scale:

**Regular Checks:** Regularly check the scale for any visible signs of damage or wear. Pay particular attention to the wiring and connections. If any issues are found, do not use the scale until it has been inspected by a qualified technician.

**Calibration:** The scale should be recalibrated periodically to ensure accuracy. The frequency of calibration may depend on usage, but as a general rule, recalibration should be performed annually. For specific calibration instructions, refer to the 'Operating Instructions' section of this manual.

**Service and Repairs:** Only qualified service personnel should perform any repairs or internal maintenance on the scale. Unauthorized service may void the warranty and could result in damage to the scale or a risk of injury.

Remember, your safety and the longevity of your scale depend on proper cleaning and maintenance. Always follow these guidelines and refer to this manual for specific operation and troubleshooting information.

## 4. Overview of the Scale

[Detailed description of the scale, including its purpose and key components.](#)



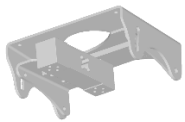
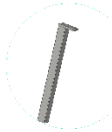




Designed for operation within warehouse settings and packaging lines, this scale serves a vital role in maintaining consistent weights for container fillings. It allows users to program up to 10 unique weighing scenarios, each of which includes settings for tare weight, minimum weight, and maximum weight.

The scale's indicator system is designed for simplicity and ease of use. When the weight of a container falls below the minimum set value, there is no light indication. As the weight falls within the specified range between the minimum and maximum values, a green LED illuminates. If the weight exceeds the maximum value, the LED turns red.

This intuitive indication method reduces strain on the operator, thereby minimizing errors resulting from loss of focus or fatigue. By using this scale, operators can maintain high efficiency and accuracy in their packaging operations.

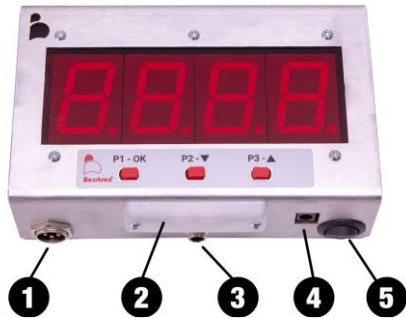
## 5. Components

Your scale comes almost fully assembled, you only need to connect the power supply and the cable between the sensor and the display.

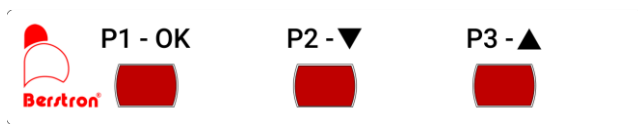
	Base support
	Weighing platform
	Weighing platform support including load cell
	Platform support pole
	Display support pole
	Power supply
	Display
	Load sensor

## 6. Operating Instructions

### Connections, buttons and other features



- 1 Load cell connector
- 2 Indicator light
- 3 Auxiliary signal connector
- 4 12v DC Power connector
- 5 ON / OFF Switch



- P1 - OK      Explain button functionality
- P2 - ▼      Explain button functionality
- P3 - ▲      Explain button functionality

### Calibrating your MIN MAX Packaging Scale

Although your scale has been calibrated at the factory it sometimes might be needed to re-calibrate your scale.

To calibrate push P2 and P3 simultaneously. Now you can adjust the number in the display to match the known weight using the ▲ for up and ▼ for down adjustments. Confirm your settings by pushing "OK". If you see your target weight in the display with decimal points in between all numbers but you reference weight on the scale. When the decimal points disappear, your scale is calibrated.

## Setting up "Tare" on your MIN MAX Packaging Scale

Step 1 Set up "TARE" in order to set the scale to "0,00" with the container on the scale.  
Put the container on the scale, press "P1 - OK" for 2 seconds till "- p 1 -" appears in the display and release.

### Select weighing scenarios

Select a memory slot by pushing the "OK", "▼" or "▲" button. Scroll up with ▲ or down with ▼ to select your preferred memory slot "\_01\_" through "\_09\_" and push "OK" to confirm your selection.

Now you can weight according to the programmed setting with this scenario or program one in this slot.

### Program structure

The memory of the MIN MAX Packing Scale has 9 memory slots which each contain 3 parameters (tare, min weight and max weight)

Memory slot	Parameter 1 Tare	Parameter 2 Min weight	Parameter 3 Max weight
- 01 -	- P1 -	- P2 -	- P3 -
- 02 -	- P1 -	- P2 -	- P3 -
- 03 -	- P1 -	- P2 -	- P3 -

### Programming weighing scenarios

- Select a memory slot by pushing the "OK", "▼" or "▲" button. Scroll up with ▲ or down with ▼ to select your preferred memory slot
- Push and hold "P1" to set your "TARE" (parameter 1)
- Push and hold "P2" to set (using ▲ ▼) your minimum weight (parameter 2)
- Push and hold "P3" to set (using ▲ ▼) your maximum weight (parameter 3)
- Click "OK" to confirm your settings



## 7. Troubleshooting


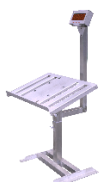


In case of an error in the program process, briefly turn off the balance and disconnect from power supply. The weighing process must then be restarted from the beginning.

<b>Fault</b>	<b>Possible cause</b>
The displayed weight does not glow.	<ul style="list-style-type: none"><li>•The balance is not switched on.</li><li>•The mains supply connection has been interrupted (mains cable not plugged in/faulty).</li><li>•Rechargeable batteries are empty</li></ul>
The displayed weight is permanently changing	<ul style="list-style-type: none"><li>•Draught/air movement</li><li>•Table/floor vibrations</li><li>•Weighing pan has contact with other objects.</li><li>•Electromagnetic fields / static charges (choose different location/switch off interfering device if possible)</li></ul>
The weighing value is obviously wrong	<ul style="list-style-type: none"><li>•The display of the balance is not at zero</li><li>•Adjustment is no longer correct.</li><li>•Great fluctuations in temperature.</li><li>•The balance is on an uneven surface.</li><li>•Electromagnetic fields / static charging (choose different location/switch off interfering device if possible)</li></ul>

## 8. Specifications

Technical specifications of the scale.

Specifications and product data Description Battery powered industrial scale designed for use at packaging lines

				
Model Number	MMC-R	MMC-P	MMC-PXL	MMC-KIT
Weighing Capacity	2Kg – 19.5Kg	2Kg – 50Kg	2Kg – 45Kg	2Kg – 60Kg
Max Effective Measured Load	19,5	50Kg	45Kg	60Kg
Max load (physical)	150Kg	150Kg	150Kg	150Kg
Accuracy	+/- 1%	+/- 1%	+/- 1%	+/- 1%
Accuracy Class	C3	C3	C3	C3
Platform height	60cm – 88cm	60cm – 88cm	60cm – 88cm	N/A
Platform measurement	40cm x 67cm	40cm x 58cm	40cm x 68cm	N/A
Indicator Lights	Green / Red	Green / Red	Green / Red	Green / Red
Operating Temperature	-10°C /+40 °C	-10°C /+40 °C	-10°C /+40 °C	-10°C /+40 °C
RH (Non condensing)	90%	90%	90%	90%
Programmable Scenarios	10	10	10	10
Warranty	1 Year	1 Year	1 Year	1 Year
Power Supply	12v - 2A	12v - 2A	12v - 2A	12v - 2A
Dimensions (H x W x D)				
Weight Platform	38.5Kg	8.5Kg	11Kg	N/A
Weight Base	12.9Kg	12.9Kg	12.9Kg	N/A
Weight Neck + Head	6.4Kg	6.4Kg	6.4Kg	
Materials	Stainless & Galvanized steel	Stainless & Galvanized steel	Stainless & Galvanized steel	Stainless
CE Compliance	✓	✓	✓	✓
food grade certifications	✗	✗	✗	✗
Certifications	✗	✗	✗	✗

## 9. Warranty and Service Information

### One-Year Limited Warranty

Berstron ("the Company") warrants this Industrial Weight Measuring Scale ("the Product") to be free from defects in materials and workmanship under normal use for a period of one (1) year from the original date of purchase ("Warranty Period").

During the Warranty Period, the Company will, at its sole discretion, repair or replace any parts of the Product that fail in normal use. Such repairs or replacement will be made at no charge to the customer for parts or labor, provided that the customer shall be responsible for any transportation cost.

This warranty does not cover:

Damage resulting from accidents, misuse, abuse, or neglect.

Damage occurring during shipment (claims must be presented to the carrier).

Damage resulting from failure to follow instructions contained in the User Manual.

Damage resulting from the performance of repairs or modifications by someone not authorized by the Company.

Damage caused by natural or man-made disasters such as fire, flood, or theft.

Any cosmetic damage that does not affect the functionality of the Product.

To obtain warranty service, you must first contact the Company to determine the problem and the most appropriate solution for you.

This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state, country to country

How to request service or repairs.

How to Request Service, Repairs, or Claim Warranty

We strive to provide top-quality products and excellent customer service. If your Industrial Weight Measuring Scale requires service or repairs, or if you need to make a warranty claim, please follow these steps:

1. Identify the Issue: Try to identify the problem with your scale as specifically as possible. Refer to the Troubleshooting section in this manual for help.
2. Customer Support is provided through our dealers and/or distributors, please contact your supplier or visit [www.berstron.com/support](http://www.berstron.com/support) for assistance.
3. Verification and Instructions: we will verify your warranty status using the information you've provided. If your scale is still under warranty, we'll provide instructions for returning the product for service or repair. Please do not send your scale back without first obtaining these instructions.
4. Shipping: Package your scale carefully to prevent damage during shipping. We recommend using the original box and packing materials. You will be responsible for the cost of shipping the scale to us.

5. Service or Repair: Once we receive your scale, our technicians will inspect it and perform necessary repairs or replacement as covered by your warranty.

We understand that any downtime with your scale can impact your operations, and we will work diligently to resolve your issue as quickly as possible. Your satisfaction is our top priority.