



Valuweigh
7XXSoftware

Operation Manual and User Guide

PLU MASTER

Cardinal 777 Indicator

REVISION B12

INDEX

1. INTRODUCTION.....	3
2. MAIN SCREEN.....	3
2.1. EXPLANATION OF FEATURES ON THE MAIN SCREEN	3
3. INITIAL SETUP	4
3.1. SUPERVISOR MENU	4
3.1.1. Explanation of Features on the first Supervisor Screen	4
3.1.1.1. Explanation of Features on the second Supervisor Screen	5
3.2. ENTERING AND EDITING PLU INFORMATION	5
3.2.1. Adding countries	6
3.2.2. Editing Countries.....	7
3.3. ENTERING THE HEALTH MARK.....	7
3.4. PRINTER SETTINGS	7
4. CREATING A PLU	7
4.1. ADDING A PLU	9
4.2. EDITING A PLU	10
4.3. THE SECOND PLU MENU (FURTHER PLU OPTIONS).....	10
5. GENERAL OPERATING PROCEDURE	11
5.1. TARRING A WEIGHT	11
5.2. SELECTING A PLU TO BE USED IN A WEIGHING PROCEDURE	11
6. PC BACK UP.....	12
7. OUTPUT INFORMATION	13
8. TROUBLESHOOTING	14
9. CONNECTIONS AND CABLES	14
10. TECHNICAL INFORMATION FOR SCALE ENGINEERS	15

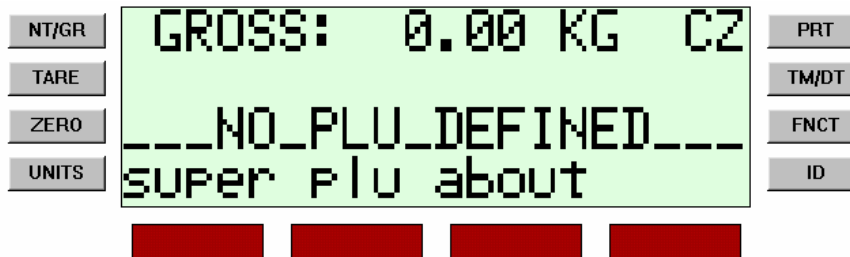
1. Introduction

PLU MASTER is a software application for the Cardinal 777 indicator allowing up to 600 PLUs to be stored (an optional memory upgrade allowing additional storage if necessary), and quickly recalled. A label can be printed for each PLU that includes information such as ingredients, storage instructions, kill location, cut location and packed location, allowing complete trace ability for various meat products.

Please note that throughout this program the default password is 2909.

2. Main Screen

On power up the Cardinal 777 will run through a start up sequence and will then display the **MAIN SCREEN**,



2.1. Explanation of Features on the Main Screen

FEATURE	EXPLANATION
GROSS CZ	Displays the Gross weight. Indicates that the scale is at the center of zero.
NO PLU DEFINED	Notifies the user that there is currently no PLU selected.
SUPER	Allows entry to the Supervisor Menu, see Section 3.1
PLU	Allows PLUs be creating, viewing and editing.

Aside:

- If at any point in this program the user wishes to return to the previous screen, **FNCT** (FUNCTION button on the right hand side of the indicator screen) should be pressed.
- The **ABOUT** key gives registration details of the program.

3. Initial Setup

The following section outlines how to enter information, such as storage instructions, locations and ingredients, for the construction of PLUs.

3.1. Supervisor Menu

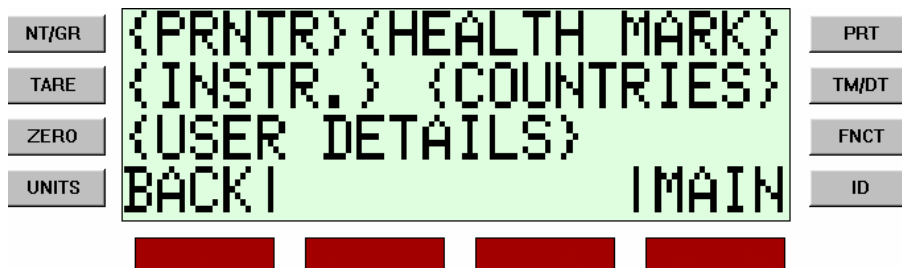
To begin, press the quick key below **SUPER**. After entering the default password of **2909**, the **SUPERVISOR MENU** will be displayed:



3.1.1. Explanation of Features on the first Supervisor Screen

FEATURE	EXPLANATION
PROD	Allows Products to be entered, edited or deleted.
INGRED	Allows Ingredients to be entered, edited or deleted.
DIVISIONS	Allows the change of weight divisions that must be seen by the program, before a new label is printed, to be edited.
DELAY TIME	Allows the delay time before a ticket is printed to be changed.
BACKUP	Allows data to be sent or received to or from a PC
RE-IND	Allows the PLUs to be re-indexed by number.
NEXT	Proceeds to the next SUPERVISOR SCREEN, see below.
MAIN	Returns to the MAIN SCREEN

After pressing the **NEXT** button the indicator will show the second Supervisor Screen,



3.1.1.1. Explanation of Features on the second Supervisor Screen

FEATURE	EXPLANATION
PRNTR	Allows the Printer details to be viewed and edited.
INSTR.	Allows the Storage Instructions to be entered, edited or deleted.
USER DETAILS	Allows the User details to be entered or edited.
HEALTH MARK	Allows the Health Mark number to be entered or edited.
COUNTRIES	Allows a Country to be entered or edited.
BACK	Returns to the first SUPERVISOR SCREEN.
MAIN	Returns to the MAIN SCREEN

3.2. Entering and Editing PLU Information

The PLU information, Products, Ingredients, Storage instructions, User Details and Countries, are all entered and edited using the same procedure. The individual information screens are accessed via the **SUPERVISOR MENU**, see **section 3.1**. For an example of how add and change information the entering and editing of a **COUNTRY** shall be detailed.

Example

Entering or editing

COUNTRIES OF ORIGIN

After pressing the **TM/DT** button besides **COUNTRIES** in the second **SUPERVISOR MENU**, the screen will show:



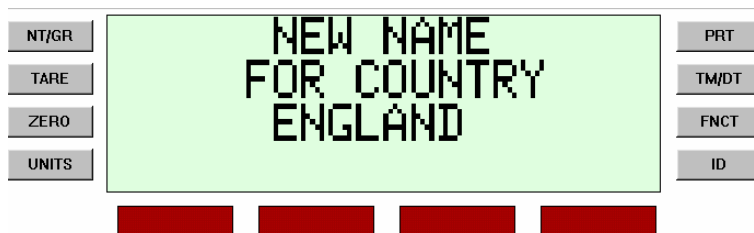
- Pressing the **LIST** button shows a list of customers already entered. To scroll through the list of data use the following keys:
 - 9 – left*
 - 0 – right*
 - delete – up*
 - +/- - down*
- Pressing the **ADD** button allows additional customers to be entered, see **section 3.2.1**.
- Pressing the **EDIT** button allows previously entered customers to be edited, see **section 3.2.2**.

3.2.1. Adding countries

After pressing the **ADD** button the screen will show:



Here the Country code can be stored. This code can be entered when creating PLUs, see **section 4**, to recall a Country of Origin. The code is entered via the QWERTY keypad. After the ENTER button has been pressed the user will be prompted to type in the name of the Country. When the code has been entered the screen will show:



In the screen above England has been entered. Press the enter button and the program will automatically prompt the user to enter the next record. If no more records need to be entered, the **FUNCTION** button can be pressed to return to the main COUNTRIES OF ORIGIN menu.

3.2.2. Editing Countries

After pressing the **EDIT** button the user will be prompted to enter the required countries' CODE. The old data will then be shown and the user has the choice of either pressing ENTER to continue with the same name or typing in new details to edit the stored data.

3.3. Entering the Health Mark

The same Health Mark is used for every PLU and is again entered from the **SUPERVISOR MENU**. To enter a Health Mark, simply press the red button beside Health Mark in the **SUPERVISOR MENU** and use the QWERTY keypad to enter the details.

3.4. Printer Settings

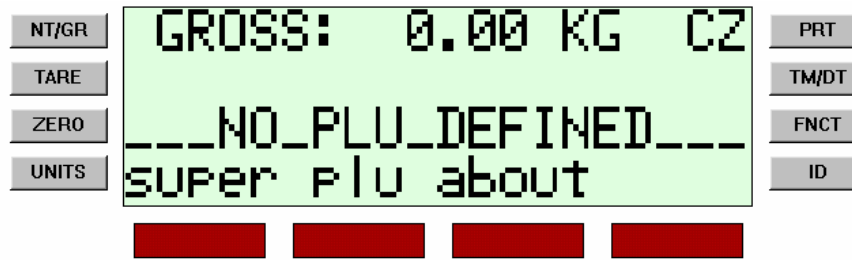
After pressing the **PRNTR** button in the second **SUPERVISOR MENU** the screen will show,



Here the printer type can be set. In the above example the ELTRON is selected. Pressing the **TICKET COPY** button allows a ticket to be reprinted on demand.

4. Creating a PLU

Here the general operating procedure will be highlighted, starting from the MAIN SCREEN,



On the **MAIN SCREEN** press the **PLU** button, the screen will show,



This screen shows the currently selected PLU number, the total number of PLU's and the last code used.

It also shows whether the selected PLU is completed and whether all required information is entered.

In the above screen “**NO**” is displayed to notify the user that no information is currently entered.

The screen will display “**CHECK**” if some PLU information is missing and “**OK**” will be displayed if the PLU is complete.

The PLUs themselves can be added, listed, and edited in the same way as the PLU information in **section 3.2**.

- Pressing the **LIST** button shows a list of PLUs already entered. To scroll through the list of data use the following keys:

9 – left
0 – right
delete – up
+/- - down

- Pressing the **NEW** button allows additional PLUs to be entered.
- Pressing the **EDIT** button allows previously entered PLUS to be edited.
- Pressing the **NEXT** button proceeds to the second PLU screen, see **section 4.3**

4.1. Adding a PLU

After pressing the NEW button the screen will show,



Here the new PLU code can be entered. This will create a PLU defined by the entered code. The code can be any integer between 1 and 600.

After the code has been entered the indicator will update the PU index and then the screen will show,



Here PLU code 50 has been entered.

The user is then prompted to enter the following information,

PRODUCT CODE,

INGREDIENTS CODE,

INSTRUCTIONS CODE,

SHELF LIFE (which can be entered via the numbers on the QWERTY keypad),

CUSTOMER CODE,

PLACE OF SLAUGHTER,

PLACE OF CUTTING,

PLACE OF BIRTH,

PLACE OF REARING,

PLACE OF ORGIN.

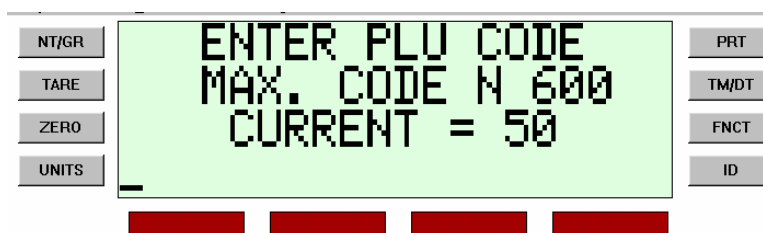
All the above information is entered by typing the corresponding code for the required information, which was setup in section 3.2.

Once all the PLU information has been entered the indicator will store the PLU ready for recall. The PLU screen will then show,



4.2. Editing a PLU

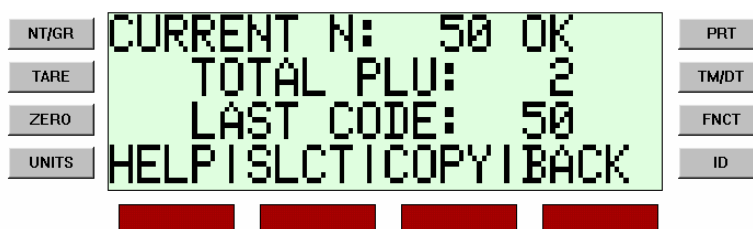
To edit a PLU press the **EDIT** button in the **PLU MENU**. The screen will show,



To edit a PLU, type in the corresponding code and press ENTER. The software then takes the user through the various information details. This information can be confirmed as correct, by pressing ENTER, or changed by typing a new code number and pressing ENTER.

4.3. The second PLU menu (further PLU options)

Once the PLUs has been created the weighing process can begin. To show the second PLU MENU press the **NEXT** button in the first **PLU MENU**, the screen will show,



- Pressing the HELP button provides information on how to scroll through menus.
- Pressing BACK returns the program to the previous screen.
- Pressing SLCT selects the PLU to be used, see **section 5.1**.
- Pressing COPY allows a PLU to be copied to another code number; this may be useful for changing the code number of a PLU.

5. General Operating Procedure

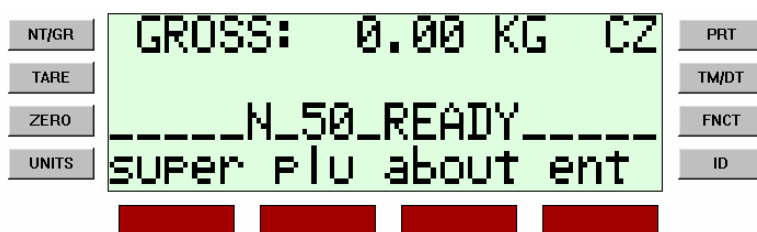
This section provides a step-by-step guide to completing a weighing process using *PLU MASTER*.

5.1. Taring a weight

To tare a weight on the scale press the TARE button on the left hand side of the indicator display. The ENTER button can then be pressed to accept the current weight on the scale as the tare or a manual tare can be entered.

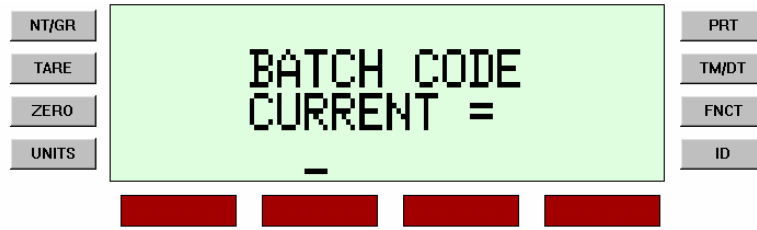
5.2. Selecting a PLU to be used in a weighing procedure

After pressing the SLCT button in the second PLU MENU, and entering the required PLU code, press the BACK key and then the FNCT key. The program will then return to the MAIN SCREEN with the required PLU selected. The screen will show,



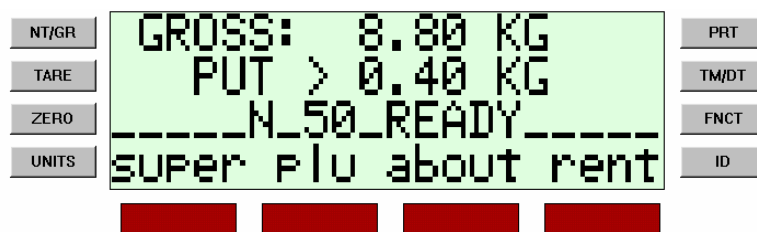
The PLU with code 50 is now selected.

- 1) Place the sample of the required PLU on the scale.
- 2) Press the ENT button to enter the Batch code for this process. The screen will show,



3) Type in the required **BATCH CODE** using the QWERTY keypad.

The PLU information and weight will then be printed. The screen will show,



Here the indicator is notifying the user that there is a minimum weight that must be placed on the scale before the weighing process can continue.

4) Take the product off the scale and replace it with another product of the same PLU and batch number. The scale must return to zero between the removal of one product and the weighing of another for the process to continue.

5) Once the indicator sees a steady weight a label will be automatically printed with the currently selected PLU information and the previously entered batch number.

This process of weighing and auto printing will continue with the same PLU information and batch number until,

- a) The **RENT** button is pressed to re-enter another batch number or,
- b) The **PLU** button is pressed to select another PLU.

6. PC Back up

PLU MASTER allows all the information stored in the Cardinal 777 indicator to be sent to a PC to ensure no data is lost. **PLU MASTER** is also able to accept

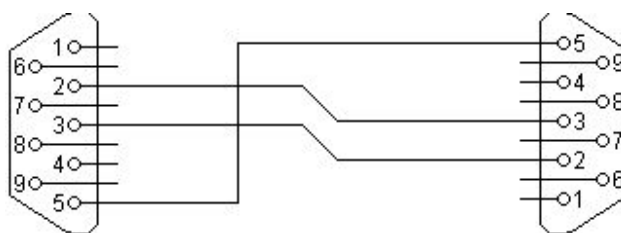
8. Troubleshooting

This section covers any problems that may arise when using the system.

- The indicator needs to see zero weight to register a change of weighing object
- The weight is more than zero and less than 20 intervals of the calibration of the 777 indicator. The weight may be too small for the system to register it as a valid weight to be printed
- Platform was unstable and in motion when the button was pressed
- The weight was not in the normal operation range, i.e. it was below zero or the platform was over capacity
- COM port settings of the printer on the 777 are different from the actual printer connection.

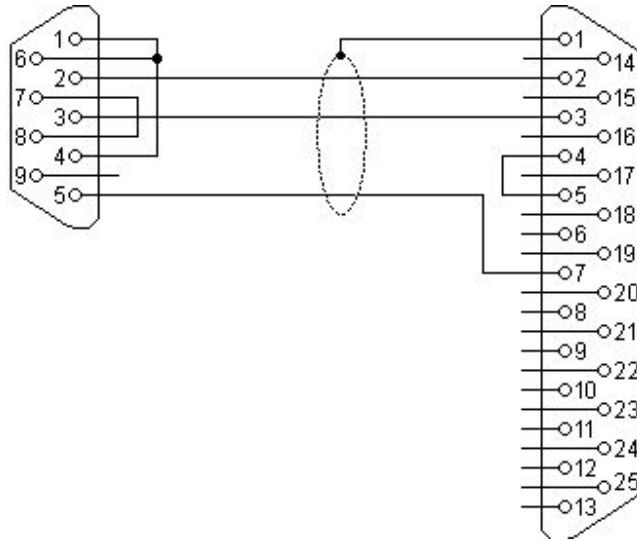
9. Connections and cables

The cable that should be used to connect the external device to the 778 indicator has a 9 pin female connector on both sides.



Download cable 9 pin female 777 to 9 pin female PC

However, some PC models use a COM port, which may have 25-pin connector.



Download cable 9 pin female 777 to 25 pin female PC

10. Technical information for scale engineers

In some cases there is a chance that the hardware port from the PC or the 777 is damaged, or has internal problems. Please be sure that the port is physically working before requesting any software changes.

The easiest way to check both ports is to load the software into the 777 indicator from the PC via a download cable. If the download is successful then there is a bi-directional connection between the PC and the 777 indicator and all communications should work as expected.



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