



Valuweigh
7XXSoftware

Operation Manual and User Guide

Parts Counting

Cardinal 777 Indicator

REVISION A8

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1. Introduction

A 777 software application is that was specially created for parts counting. The program is available in two versions: full and basic. The basic version has simple features such as: counting parts and ticket printing with information such as the date of weighing, the current item weight, customer information, number of pieces, description of the product and a bar code. Items may be added with any description and sample weight. Different types of barcode may be used and different information may be stored in the bar code, depending on the size of the label required. The full version has more parameters in the set-up, such as 5 lines of custom text for ticket header and footer, quick alphanumeric search for item description and customer name. All transactions in the full version are stored in the 777 RAM and may be sent to a PC and converted to Excel format for future use. This is done by using an additional Excel module.

1.1. 777 alphanumeric keypad

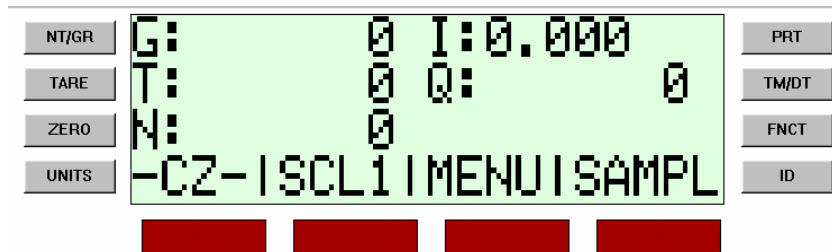


The 777 keypad has 44 buttons which may be used to input alphanumeric information. Other than the alphanumeric keys there are other buttons such as: **ENTER**, **SPACE**, **SHIFT** and **BACKSPACE** (←).

- ENTER** - used to confirm end of data input.
- SPACE** - used to put spaces between characters.
- SHIFT** - used to change character's case.
- BACKSPACE** - used to delete previously entered character.

2. Main Screen

On power up the 777 indicator will display the MAIN SCREEN,



Important Aside: At any point in the program if you wish to return to the previous screen you may press the FNCT button on the right hand side of the indicator screen

2.1. Explanation of features on the main screen

CZ	Notifies the user when the scale is at the center of zero. This will also show KG when there is weight on the scale, MO when there is motion on the scale, and BZ when the scale weight is below zero.
SCL 1	Shows the current scale being displayed, press this button to change between scales.
N	Displays the current nett weight.
T	Displays the currently entered tare weight.
I	Displays the weight of an individual item.
Q	Displays the quantity of items.
MENU	Area of the program where various details can be changed, see section 2.1
SAMPL	Pressing this button begins the simple sampling, see section 3.1

2.2. Changing the custom printout fields

To change the information that will be printed on a ticket press the **ID** button on the bottom right of the indicator screen. There are three custom fields that can be changed, the 4th, 5th and 9th lines of the printout. Type the information you wish to be printed on the 4th line, using the QWERTY keypad on the 777 indicator, and press ENTER. The screen then prompts the user to enter the 5th line. Enter this information in and press ENTER. The 9th line can then be entered in the same way. Below is an example printout where STAINLESS STEEL, FULL THREAD and THANKYOU have been entered in the custom fields.

```
09:26, 06-03-2004
ITEM: SCREWS
SIZE: 30mm
STAINLESS STEEL
FULL THREAD
CUSTOMER NAME:
A.CARPENTRY
NET WEIGHT: 2.78KG
QUANTITY: 67
THANKYOU
```

2.3. Tarring a weight

To tare a weight, such as a box, place the required weight on the scale, ensure the correct scale is selected, and press the **TARE** key on the left hand side of the indicator. The current weight of the box on the scale is shown. To accept this weight it is needed to press enter. To enter your own tare weight use the QWERTY keypad to type the required weight and press enter.

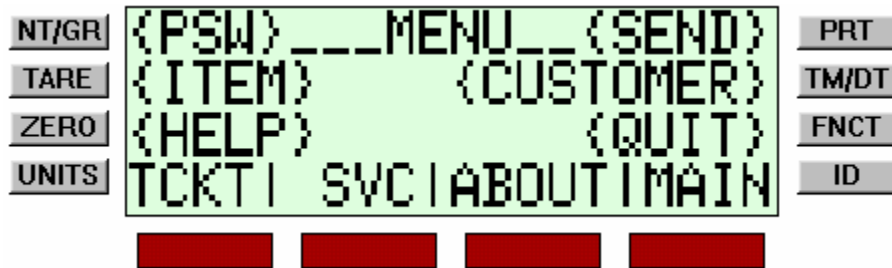
2.4. Zeroing the scale

To zero the currently selected scale it is needed to press the **ZERO** key on the left hand side of the indicator screen.

3. Initial Setup

3.1. Menu

After pressing the MENU button on the main screen the screen will show,



*HELP button not available on some versions.

3.1.1. Quitting the program and About the program

(WARNING: Sections 2.1.1 and 2.1.2 are for supervisor or scale engineer use only)

To quit the program completely, simply press the **QUIT** key. To find the latest revision number and register the program press the **ABOUT** key

3.1.2. Settings and changing variable printout fields

To change various settings such as COM port and printer information press the **SVC** key. Please contact your system supplier for the service password. The report limit, number of decimal places supported (for greater accuracy), and various custom fields on the printout can be altered in this menu. Simply enter the information when prompted via the QWERTY keypad and press enter to move to the next field. After all the information has been entered the software will ask you to confirm the setup, press yes to accept the data entered.

3.1.3. Changing the password

To enter a password that will protect the **MENU** screen press the **PSW** key. You will be prompted to enter the new password and after pressing the enter key on the keypad, the password will be updated. Please ensure you remember this password, as for security reasons, it will now be needed to enter the **MENU** section of the program

3.1.4. Returning to main screen

To return to the main screen press the **MAIN** button, do not press the **QUIT** button.

3.1.5. Ticket printout details (time and date)

Pressing **TCKT** allows the user to choose whether or not time and date are printed on the ticket.

3.1.6. Entering, editing or deleting items

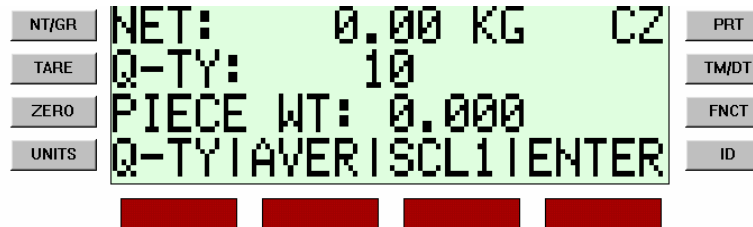
To enter the new item into the indicator press the **ITEM** button. The screen will now show:



The four options are:

NEW – To enter a new item into the indicator memory for recall in the sampling process, press the NEW key. The name of the item can then be entered via the QWERTY keypad in the item description field. After pressing ENTER the size of the item can then be entered i.e. 20mm or $\frac{3}{4}$ inch. After this information has been entered press ENTER.

The screen will now show:



Here the piece weight is calculated to be stored with the item name and description.

There are two options to enter the piece weight.

- 1) Press the **AVER** button to enter a known average piece weight. Press ENTER and the data will be stored.
- 2) Put a set number of items on either scale, for the above example scale 1 is being used. Be sure to tare off any container that may be being used by pressing the **TARE** key in the main screen. The default number of items is 10; press the **Q-TY** button to change this to the amount that has been placed on the scale. The piece weight will then be calculate and displayed on the 3rd line of the screen. To accept this and store the data press ENTER.

LIST – displays a list of currently entered items. The following keys are used to move through the list:

9 - LEFT
0 - RIGHT
← - UP
± - DOWN

DELETE – allows an item currently stored in the indicator to be deleted. The program will prompt the user to enter the item to be deleted. Use the quick search to find the required item. This is done by entering the first few letters of the item, after which the indicator will jump to the item beginning with those letters. To delete this item press ENTER.

ENSURE THIS IS THE ITEM THAT IS TO BE DELETED AS AFTER ENTER HAS BEEN PRESSED IT WILL BE DELETED. IF YOU WISH TO CANCEL THE DELETION AT ANY TIME PRESS THE **FUNCTION** BUTTON.

EDIT – in the same way as DELETE, use the quick recall search to find the required item and press ENTER. Scroll through the item descriptions by pressing ENTER and edit where appropriate using the QWERTY keypad.

3.1.7. Entering, editing or deleting customers

The entering, editing and deleting of customers is done in a similar way to the items.

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



LIST – shows a list of the currently entered customers.

NEW – allows the customer name to be entered via the qwerty keypad. When this information has been typed in press ENTER.

EDIT – recall the customer using the quick search recall and press ENTER. Edit the name using the QWERTY keypad.

DELETE – again recall the customer using the quick search recall and press ENTER to confirm the deletion, **see 2.1.6.**

3.1.8. Sending data to the MS Excel

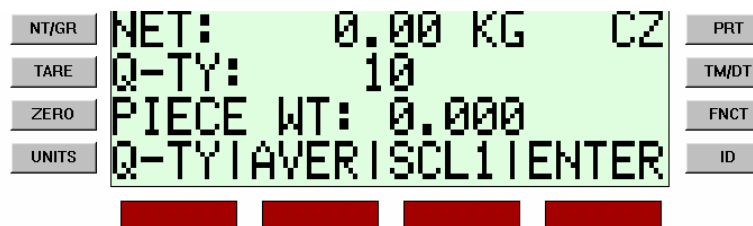
Each time a transaction is completed the details are stored in the indicators memory. To send the stored data to a PC press the **SEND** button on the **MENU** screen.

The status of the data transfer will be shown on the screen. If there is a problem the indicator will default back to the main screen. Check the connection and try again. If the transfer will still not work contact your system provider.

4. Operating Procedure

4.1. Quick Sampling

To obtain a piece weight, without entering customer or item details, press the **SAMPL** button on the main screen. The screen will show:



1. Place the sample on one of the scales. In the above example scale 1 is used, but by pressing the **SCL1** button you can change to the remote scale. Pressing this button again will change back to scale 1.
2. Now either the quantity can be entered, by pressing the **Q-TY** button, from which the piece weight will be calculated, or the average weight of an item can be entered by pressing the **AVER** button.
3. After this information has been inserted press the **ENTER** button. The indicator returns to the main screen and all the entered and calculated information is shown. To print a record of this sample press the **PRINT** button at the top right of the indicator screen. The time and date, nett weight and quantity will be printed and stored in the indicator memory.

4.2. Full sampling and customer receipt printing

1. Place the sample on the scale. Select the scale being used by pressing the **SCL1** button. Tare off any box or container being used by pressing the **TARE** button.
2. Press the **“C”** button on the QWERTY keypad. This allows the user to quick recall the required customer by typing the first few letters of the name. The indicator will jump to the name that begins with the letters entered. The customer names are recalled from those stored in the indicator memory, see **section 2.1.7**. Press **ENTER** to accept this name.
3. Press the **“I”** button on the QWERTY keypad. The item can then be recalled from the indicators memory in the same manner as the customer. When the item was entered, see **section 2.1.6**, a corresponding piece weight was stored with it. This is recalled with the item name and is displayed on the main screen.
4. Press the **PRINT** button. A ticket will be printed with the time and date, customer and item information, nett weight and quantity. The transaction will be stored in the indicator memory and can be sent to a PC on request, see **section 2.1.8**.

5. Troubleshooting

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

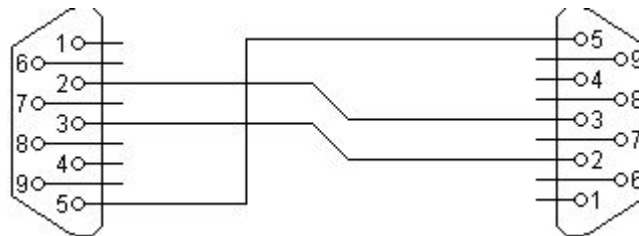
- The indicator needs to see zero weight to register a change of weighing object
- The weight is more than zero and less than 20 intervals of the calibration of the 777 indicator. The weight may be too small for the system to register it as a valid weight to be printed
- Platform was unstable and in 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. Please ensure the settings are as follows,

Port - 2
Baud rate - 9600
Parity - N=none
Data bits - 8
Stop bits - 1

6. Connections and Cables

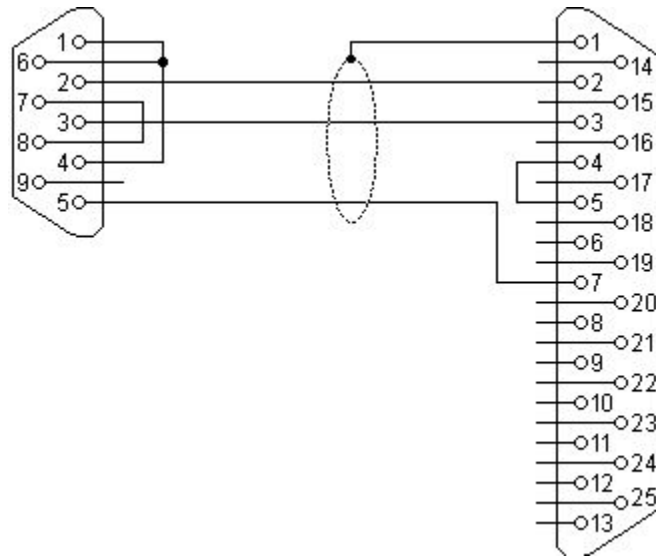
6.1. Download cable

The cable that should be used to connect the external device to the 777 indicator has a 9 pin female connector on both sides.



Pic. 1. Download cable 9 pin female 777 to 9 pin female PC

However, some PC models use a COM port that may have 25-pin connector (pic.2).



Pic. 2. Download cable 9 pin female 777 to 25 pin female PC

6.2. 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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