METTLER TOLEDO

Weight/price scales bPro

NETWORK

User manual
INTRODUCTION

Your new bPro unit is among the finest precision digital computing scales available. It is simple to use and requires minimum maintenance. These scales come from a proud tradition that has made METTLER TOLEDO the worldwide symbol of the highest quality in precision weighing equipment.

Please read these instructions carefully. You will find operating the unit is very simple. In the unlikely event you should experience difficulties, contact your authorized METTLER TOLEDO SERVICE OFFICE listed in the yellow pages of your telephone directory.

Properly used and maintained, your new scale will provide years of accurate weighing which will protect your profits and your customers. Please handle your scale as you would any fine electronic equipment.

FCC Notice

This device complies with Part 15 of the FCC Rules and the Radio Interference Requirements of the Canadian Department of Communications. Operation is subject to the following conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Disposal

In accordance with the requirements of European Directive 2002/96 EC on Waste Electrical and Electronic Equipment (WEEE), this device may not be disposed of with domestic refuse. This also applies for countries outside the EU in accordance with their respective national regulations.

Please dispose of this product in accordance with local regulations for the separate collection of waste electrical and electronic equipment.

About the batteries which are on PCB, please transfer them to our professional service person.

Should you have any questions, please contact the corresponding authorities or the dealer from whom this device was purchased.

If this device is passed on (for example for further private or commercial/industrial use), this regulation is also to be passed on.

Many thanks for your contribution to the protection of the environment.

Battery disposal

Batteries contain heavy metals and therefore cannot be disposed of in the normal refuse.

Observe local regulations on the disposal of materials that are hazardous to the environment.
Appendix C: Fonts Table

<table>
<thead>
<tr>
<th>Font No.</th>
<th>Font Type</th>
<th>Height in mm</th>
<th>Characters per line</th>
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</tr>
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<td>Arial</td>
<td>2.4</td>
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<td>Arial</td>
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<td>Arial</td>
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<td>2.9</td>
<td>18</td>
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<td>Arial</td>
<td>3.7</td>
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<td>18</td>
</tr>
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<td>14</td>
<td>Arial</td>
<td>3.2</td>
<td>13</td>
</tr>
<tr>
<td>15</td>
<td>Arial</td>
<td>6.4</td>
<td>13</td>
</tr>
<tr>
<td>16</td>
<td>Arial</td>
<td>2.9</td>
<td>11</td>
</tr>
<tr>
<td>17</td>
<td>Arial</td>
<td>3.7</td>
<td>11</td>
</tr>
<tr>
<td>18</td>
<td>Arial</td>
<td>4.8</td>
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<td>Arial</td>
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<td>9</td>
</tr>
<tr>
<td>20</td>
<td>Arial</td>
<td>9.6</td>
<td>9</td>
</tr>
</tbody>
</table>

PRECAUTIONS

READ this manual BEFORE operating or servicing this equipment.

FOLLOW these instructions carefully.

SAVE this manual for future reference.

DO NOT allow untrained personnel to operate, clean, inspect, maintain, service, or tamper with this equipment.

ALWAYS DISCONNECT this equipment from the power source before cleaning or performing maintenance.

CALL METTLER TOLEDO for parts, information, and service.

WARNING

ONLY PERMIT QUALIFIED PERSONNEL TO SERVICE THIS EQUIPMENT. EXERCISE CARE WHEN MAKING CHANGES. TESTS AND ADJUSTMENTS THAT MUST BE MADE WITH POWER ON. FAULTING TO OBSERVE THESE PRECAUTIONS COULD RESULT IN BODILY HARM.

WARNING

FOR CONTINUED PROTECTION AGAINST SHOCK HAZARD CONNECT TO PROPERLY GROUNDED OUTLET ONLY. DO NOT REMOVE THE GROUND PRONG.

WARNING

DISCONNECT ALL POWER TO THIS UNIT BEFORE INSTALLING, SERVICING, CLEANING, OR REMOVING THE FUSE. FAILURE TO DO SO COULD RESULT IN BODILY HARM AND/OR PROPERTY DAMAGE.

CAUTION

BEFORE CONNECTING/DISCONNECTING ANY INTERNAL ELECTRONIC COMPONENTS OR INTERCONNECTING WIRING BETWEEN ELECTRONIC EQUIPMENT ALWAYS REMOVE POWER AND WAIT AT LEAST THIRTY (30) SECONDS BEFORE ANY CONNECTIONS OR DISCONNECTIONS ARE MADE. FAILURE TO OBSERVE THESE PRECAUTIONS COULD RESULT IN DAMAGE TO OR DESTRUCTION OF THE EQUIPMENT OR BODILY HARM.

CAUTION

OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE DEVICES.
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Error Message | Reason | Status | Action
--- | --- | --- | ---
ERROR 300 PRINTER | Printer defect | 2 | Replace Main Logic PCB
ERROR 301 PRINTER | Printer defect | 2 | 1. Reinstall the software 2. Replace Main Logic PCB
ERROR 307 PRINTER | Printhead defect | 2 | 1. Replace printhead 2. Replace printhead harness 3. Replace Main Logic PCB
ERROR 308 PRINTER | Printer defect | 1 | Replace Main Logic PCB
ERROR 310 PRINTER | Printer defect | 2 | Replace Main Logic PCB
ERROR 101 AP | Real Time Clock defect | 1 | Replace Main Logic PCB
ERROR 400 CELL | Load Cell defect | - | 1. Replace Main Logic PCB 2. Replace Load Cell
ERROR 401 CELL | Load Cell defect | - | 1. Readibrate 2. Replace Main Logic PCB 3. Replace Load Cell
ERROR 200 DATABASE | Data bank error | 3 | Reset RAM
ERROR 201 XX DATABASE | XX Data error | 2 | 1. Reset RAM 2. Delete Data XX
ERROR 202 XX DATABASE | XX Data error | 2 | 1. Reset RAM 2. Delete Data XX
ERROR 203 YY DATABASE | YY Data error | 2 | 1. Reset RAM 2. Configure YY
ERROR 205 DATABASE | Data bank error | 3 | Reset RAM

Meaning of XX
01 Operator 07 Group data
02 Ticket data 13 Label data
03 Time total data 15 Date text data
04 Text data 21 PLU label data
05 Barcode data 23 Store adress
06 Tare data 24 PLU data

Meaning of YY
01 Operator Configure 04 Password Configure
03 Keyboard Configure
LABEL MOVED—The stepper motor or the rewind motor is not working properly.

CHANGE PAPERROLL—The label roll is not installed or the label roll is empty.

TAKE LABEL OFF—Take off the current label before printing the next one.

NO FREE OX KEY—All the configured operator keys have been occupied.

PRINT TICKET—Print out the customer ticket before logging out.

OPEN CUST. TICK—You are trying to delete an operator who has total data.

OX NOT LOGGED-IN—The operator has not been assigned to an operator.

PAYMENT TOO LOW—The payment is less than the total amount.

TARE TOO BIG—The entered tare is too big.

PLU TARE ACTIVE—You are forbidden to override the PLU tare.

PUT PLATTER ON—The weight is too small and out of power up zero range.

ZERO NOT CAPTURE—The weight is too big and out of power up zero range.

WEIGHT TOO SMALL—The weight is too small to be printed.

ERROR TAKE-SENS—The take label sensor is not working properly.

ERROR POS_SENS—The gap sensor is not working properly.

ERROR INTERFACE—The serial port is not working properly.

Error Message
Listed below are the possible error codes are listed. When an error code appears, the scale should be switched off and on. In many cases the error will disappear. There are 3 different kinds of error messages:

Error Status 1:
Warning! After the warning the scale can still be used.

Error Status 2:
Press “CODE” key. Change to one of the CODE menu. Back to normal operation mode.

Error Status 3:
Press “CODE” key and enter SERVICE MODE, after returning to normal operation mode the scale will perform RESET.

Meaning of the function keys

Keyboard

### Meaning of the function keys

<table>
<thead>
<tr>
<th>Function</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>#</td>
<td>Free entry of a price per piece</td>
</tr>
<tr>
<td>V1</td>
<td>(PRINT,V2,V3,V4) Vendor, clerk</td>
</tr>
<tr>
<td>00</td>
<td>Numeric keypad</td>
</tr>
<tr>
<td>C</td>
<td>Clear;</td>
</tr>
<tr>
<td>*</td>
<td>Customer total, Confirm</td>
</tr>
<tr>
<td>+</td>
<td>Manual entry of a price per piece to add</td>
</tr>
<tr>
<td>-</td>
<td>Manual entry of a price per piece to substract</td>
</tr>
<tr>
<td>X</td>
<td>Multiplication</td>
</tr>
<tr>
<td>E</td>
<td>Fixed unit price / fixed tare</td>
</tr>
<tr>
<td>F</td>
<td>Change back</td>
</tr>
<tr>
<td>ST</td>
<td>Void</td>
</tr>
</tbody>
</table>

Some type has the [TM] key, used to Tare manually.

Special functions keys

<table>
<thead>
<tr>
<th>Key</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 70</td>
<td>preset keys</td>
</tr>
<tr>
<td>V2,V3,V4</td>
<td>vendor keys V2-V4</td>
</tr>
<tr>
<td>[-%]</td>
<td>increase/decrease key (Discount key)</td>
</tr>
</tbody>
</table>

Note: The left 70 keys (T2 model) are preset keys which can store 140 PLUs. Different type has different quantity preset keys.

Remark:

*V2, V3 and V4 key can be configured as preset keys or vendor keys, but one function is available at one time.

*[-%] key can be configured as preset key or increase/decrease key, but only one function is available at one time.
Programming membrane

Meaning of the "programming" keyboard keys

- **F1**: Go to beginning of text
- **F2**: Go to end of text
- **F3**: Move the cursor one position left in the text edit mode
- **F4**: Move the cursor one position right in the text edit mode
- **F5**: Go to next sub-menu
- **F6**: Return to previous sub-menu
- **ALT**: Get upper case characters in text edit mode or select a key’s 2nd function
- **BS**: Backspace (delete the character left of the cursor)
- **DEL**: Delete (delete the character on the cursor)
- **INS**: Insert (insert a character on the cursor)
- **[ABC]**: Center the text in text edit mode
- **[ENTER]**: Carriage return (next line)
- ****: Selection of a menu

Appendix B: Error Message

- **Warning Message**
  - **INPUT TOO BIG**—The input is too big.
  - **INPUT TOO SMALL**—The input is too small.
  - **TOO MUCH INPUT**—The input is out of limit.
  - **WRONG CODENR.**—The code number is invalid.
  - **KEY NO FUNCTION**—The key has no function.
  - **KEY BLOCKED**—The key is disabled. Check the KEYBOARD CONFIGURE.
  - **PLU NOT FOUND**—The entered PLU number does not exist.
  - **AG NOT FOUND**—The entered Group number does not exist.
  - **OPER. NOT FOUND**—The entered Operator number does not exist.
  - **LABEL NOT FOUND**—The entered Label Format does not exist.
  - **PLUNR IS OCCUP**—You are trying to duplicate a PLU into an exist PLU number.
  - **LABELNR. OCCUP**—You are trying to duplicate a label format into an exist label format number.
  - **DISCOUNT IMPOSS**—This PLU does not allow to be discounted. Check the PLU Discount configuration, or this PLU is in special offer.
  - **NO FURTHER REG.**—No further transaction has been recorded.
  - **NO STABLE WEIGHT**—The weight is not stable.
  - **AG NOT DELETABLE**—This Group contains total data and can not be deleted.
  - **OP NOT DELETABLE**—This Operator contains total data and can not be deleted.
  - **MEMORY FULL**—Memory is full.
  - **WEIGH AGAIN**—You are trying to record one item twice. Remove the item from the platter and put a new item on the platter.
  - **WRONG LABEL**—The installed label roll does not match the configured label format.
Appendix A: Network Configuration

Call the menu "Technical service "

Enter the preset code 21.
Enter network configure
Input IP address
Input NET MASK address
Input SERVER IP address (If necessary)
Input ROUTE IP address (If necessary)
Input IDLE TIME (10 is ok)
Input MAC ADDRESS

Scale will restart automatically.

After completing setup, if necessary you can choose the PLU SOURCE. The operation as bellow:

Call the menu "Technical service "

Enter the preset code 21.

0=Get PLU from local scale
1=Get PLU from NETWORK
2=First from network, then from local scale

Press \( \text{menu} \) to exit.
Select desired menu with ▲▼ or enter preset code and activate with ★ key.

---

**Maintenance**

### Replacing the thermal paper roll

- Open the door of printer housing on the right side of the scale, pull out printer.
- Remove the empty reel.
- Press down the green lever.
  The print head flips out of its housing.
- Insert the new thermal paper roll in accordance with the drawing.
- Pull out the paper until correct tension is reached.
- Push back the print head until it clicks.
- Tear off the paper that sticks out.
- Close the weighing plate.

### Cleaning the print head

- Switch off the scale.
- Open the door of printer holder on the right side of the scale.
- Pull out the printer.
- Press down the green lever.
  The print head flips out of its housing.
- Take off the cap from the cleaning pen.
- Clean the print head with the moist tip of the pen.
- Push back the print head until it clicks.
- Put on the cap of the cleaning pen.
- Pull back the printer, close the door.
- Switch on the scale.

! Use only the cleaning pen, for cleaning the print head. Other cleaning materials will destroy the print head.
Call the menu "Mode switching"

Enter preset code 08.

Enter large sales mode

After entering large sales mode, operator shall first input the called PLU, if the parameter of "price shall be entered via key \( \text{\textcopyright} \) has been configured \(^*\). Then press the key \( \text{\textcopyright} \), enter large sales weight and register this transaction. If the price is required to input temporarily, operator shall first press the key \( \text{\textcopyright} \), then enter the temporal price, again press the key \( \text{\textcopyright} \), input large sales weight and register this transaction at last.

Press the \( \text{\textcopyright} \) key twice or enter the preset code 02.

Enter the PLU number. (1~999999)

Enter the article number (up to 13 figures).

Enter the commodity text 1 (up to 28 characters)

Enter the commodity text 2 (up to 150 characters)
(Should first set the quantity of characters in CODE 5)

Enter the article group number. (1~99)

Enter the unit price. (0~9999.99)

Enter the second unit price if necessary. (0~9999.99)

Select the price using first price or second price.

Input the label number (0~108, 101~108 are fixed label formats)

Input second label number

Input preset tare number. (1~16)

Input the best before offset. (0~999 days)

Input the sell by offset. (0~999 days)

Is it an article per piece or a weighed article?
0 = weighed article, 1 = article per piece

Input the FIX WEIGHT for article per piece

Input the Extra Text number.
Prepacking

Select the prepacking mode

Call the menu “Mode switching”

Enter preset code 02.

Select/return to prepack mode

Select the print triggering mode:

0=print after stabilizing; 1=print by pressing the vendor key.

Procedure

- Select the PLU
- Place the article
- Using the vendor key, start label printing (if "manu" is chosen) or start label printing by varying the load (if "auto" is chosen).
- Remove the label
- Weight the next article

Print a batch of prepack labels for the article by Count PLU

This function can be in prepack mode only, it is in effect under auto-print status. And only for the articles by Count PLU.

@example

Before you call a plu, you must empty the platter of scale.
Active batch print function
Display the price of the PLU, you can enter number follow X key for more than one.

Enter print quantity (max. 999 pcs)
After the previous label is taken away, then print the next label.

NOTE: Press the key twice can quickly switch prepack mode and service mode.
**Tare**

a) Compensation of a weighed tare (tare an empty recipient)
- Place the empty recipient.
- Press the $\mathbb{E}$ key.
- Put the full recipient and register the transaction.
- The tare weight is cleared from the moment the transaction is registered and the scale is cleared.

b) Tare manually
As the weight is Zero in scale press $\mathbb{E}$ key, then input the tare value manually and confirm with $\mathbb{F}$ key.

c) Plu specific tare weight
the tare is linked with plu, recall the plu to recall it.

d) Fixed tare compensation
- Put tare weight on the scale.
- Press the $\mathbb{E}$ key.
- Press the $\mathbb{F}$ key.

---

**Define presets**

Call the menu “DATA ENTRY”

Enter preset code 09.

*Press the desired PLU preset key (Shift L1 and L2 by the key $\mathbb{F}$)
Enter PLU number (up to 6 digits)
Press $\mathbb{E}$ to enter or modify another PLU preset.

Press $\mathbb{F}$ 2 times to return to weighing mode.

**Remark:**
*The Type bPro can store 140 preset keys which are divided into two levels L1 and L2. L1 can store P1–P70 and L2 can store P71–P140. Shift L1 and L2 by the key $\mathbb{F}$.
(some type the preset key quantity is different)
**Tare entry**

Call the "DATA ENTRY" menu

Enter the preset code 30

Enter the tare number (1-16).

Enter the tare weight in grams or put the empty recipient on the scale, then validate with the tare key.

Press to affect the next tare memory.

Press the key twice to return to the weighing mode.

*) Respect the increment (1 g, 2 g or 5 g, depending on the weighing range)

---

**Void**

a) The last operation

b) one of the previous operations

Remarks: With you have an overview of the different transactions printed on the ticket.

c) total operations

---

**Register (with printing on label)**

Weighed PLU/ PLU per piece / overwriting of a defined price per piece

- Put the article on the scale.
- Press a direct PLU preset key or enter the PLU code.
  (Overwriting of a defined price per piece):
  The defined price per piece can eventually be overwritten by the current article, by pressing , or press key first to enter a weighed price for an article per piece, first press or to entry the temporary price.
- With your personal key , start printing the label.
1. Weighed PLU/ PLU per piece / overwriting of a defined price per piece
   - Put the article on the scale.
   - Press a directed PLU preset key or enter the PLU code.
     (Overwriting of a defined price per piece : 
     The defined price per piece can eventually be overwritten by the current article, by pressing  ③, or press ③ key first to enter a weighed price. For an article per piece, first press ④ or ⑤ to enter the temporary price.
   - Register the transaction with your personal ① key.
   - Register the next article.
   - Conclude the sale and print off the customer ticket by pressing the ⑥ key, followed by your personal ⑥ key.

2. Subtotal
   Displaying the subtotals of all the vendors
   Displaying the subtotal of vendor x
   By repeatedly pressing the ⑦ key, check the subtotal of every vendor.

3. Calculating the change
   To use the "Calculating the change function", you only have to conclude the sale by the following sequence of keystrokes, the key ⑥ replaces the key ⑥.
   Enter the amount received by the client.
   The cash register opens automatically.

Enter the preset code 32
Enter the EAN number (1-8).
Select barcode type
0=EAN 8, 1=EAN 13, 2=ITF 25 Narrow, 3=ITF 25 Wide, 4=EAN 128, 5=EAN 13+5, 6=UPC A
Select CHECK SUM type, 0=Normal, 1=Reverse, 2=No check sum
Select shift digit for the Article number in barcode
Select shift digit for the total price in barcode
Select shift digit for the quantity in barcode
Select shift digit for the unit price in barcode
Select shift digit for the weight in barcode

Enter the EAN CODE such as 22AAAAABBBB etc.
Press ⑨ to affect the next EAN code memory.
Press the ⑩ key twice to return to the weighing mode.

Examples:
0000000 (UPC, Ten digit Item Number)
2222222 (UPC, 5-D item Price Check Digit/4-D Price)
2222222 (UPC, 5-D item Zero Fixed/4-D Price)
2222222 (UPC, 6-D item/No Price Check/5-D Price)
2222222 (UPC, 6-D item/Check Digit/4-D Wgt)
2222222 (UPC, 6-D item/No Price Check/4-D Wgt)
2222222 (UPC, 5-D item/Check Digit/5-D Wgt)
2222222 (UPC, 5-D item/No Price Check/5-D Wgt)
2222222 (EAN 5-D item/5-D Price)
2222222 (EAN 5-D item/6-D Price)
2222222 (EAN 5-D item/5-D Wgt)
2222222 (EAN 5-D item/6-D Wgt)

Legend of Barcode Identifications
A = Item number 4 - 12 figures
B = Total Price 4/5/6 figures
C = Check digit 1 figures
D = Date 2/4/6 figures
N = Ticket number 4 figures
P = PLU code 4/5/6 figures
Q = Weight/Quantity 4/5/6 figures
W = Group number 2 figures
O-9 Figures 1 - 12 figures

*NOTE: The default label format uses the NO.2 barcode format. The free label format you can select the barcode number in label editing software.
Vendor key configuration

- Vendor name edit
  - Call the "DATA ENTRY" menu

  ![DATA ENTRY Menu Diagram]

  - Enter preset code 47.
  - Enter the number of the desired vendor.
  - Enter the name of the vendor.
  - If necessary input the password of the vendor
  - Confirm the password
  - Press \( \star \) to enter or modify another vendor’s number.
  - Press the \( \star \) key twice to return to the weighing mode.

- Vendor preset key permission
  - Call the "KEYBOARD CONFIGURATION" menu

  ![KEYBOARD CONFIGURATION Menu Diagram]

  - Enter preset code 03.
  - Enter number of operator keys (1 – 4)
  - 0=Don’t save the configuration.
  - 1=Save the configuration.
  - Press the \( \star \) key to return to the weighing mode.

Sales mode

Mode switching

- Call the menu "Mode switching"

  ![Sales Mode Menu Diagram]

  - With \( \star \) or the preset code, select the corresponding menu item, then activate it with the \( \star \) key.
  - Service mode
    - For all weighing functions, registering, data entry and sales reporting
  - Code mode
    - Enter the code functions
  - Void oper. mode
    - VOID OPERATION AFTER CHECK OUT means the ticket or label has been printout, and these transactions will be deleted from the statistics data.
  - Prepack mode
    - For packing fieldwork of the supermarket. In this application, only print label, the small variety but large quantity print-work.
  - Large sales mode
    - When the article is too big to weigh, operator can enter this mode by inputting the article weight and count price.
Choose the print paper (ticket or label)

Call the "OPERATOR CONFIG" menu

Enter preset code 01.

Select the status of service mode or prepack mode when open the scale
0 = service mode; 1 = prepack mode
0 = cust. ticket; 1 = label; 2 = label + total label; 3 = total label

Press the key until return to the weighing mode.

Log in and log out an operator

Press vendor key about 5 secs until display "operator number"
Then input operator number.
Then confirm with ENTER key.

Discount key configuration

Discount rate edit

Call the "DATA ENTRY" menu

Enter preset code 60.

Enter increase/decrease number (1 ~ 9).

Enter increase/decrease name.

Enter increase/decrease text.

Enter increase/decrease rate.

Press the key twice to return to the weighing mode.

Discount permission
**Instruction for special offers**

### Define a special offer

1. **Enter preset code 01.**
   - 0 = depend on PLU
   - 1 = all PLU enable, 2 = all PLU disable

2. Press the ☐ key to return to the weighing mode.

### Log in increase/decrease key

1. **Enter preset code 03.**
   - 0 = Disable increase/refund
   - 1 = enable increase/refund

2. Press the ☐ key to return to the weighing mode.

### Cancel a special offer

1. **Enter preset code 27.**
   - 0 = No prohibition
   - 1 = Prohibit SP. OFFER for this PLU

2. Press the ☐ key twice to return to the weighing mode.