

UC-ST Smart*Touch*[®] **Scale/Printer** User's Guide

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METTLER TOLEDO Model UC-ST User's Guide 64056467



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Mettler-Toledo Inc. Columbus, Ohio

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(Year of Declaration 2003)



We the manufacturer of

Model	Certificate and Number	Issued by
UC-ST	02-127A1	NCWM

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🖄 WARNING

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DISCONNECT ALL POWER TO THIS UNIT BEFORE REMOVING THE FUSE OR SERVICING.

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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.

Publication Revision History

Part Number	Date	Revisions					
64056467 Rev 01 5/06		System Management Setup, new Screens, DB Editor changes					
64056467 Rev 02	8/07	Labels Requirements chapter added, new Networking and Dat/Time functions added					
64056467 Rev 03	2/09	Adjustments and reconfiguration of menu cascades.					

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In conformance with the European Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE) this device may not be disposed of in domestic waste. This also applies to countries outside the EU, per their specific requirements.

Please dispose of this product in accordance with local regulations at the collecting point specified for electrical and electronic equipment.

If you have any questions, please contact the responsible authority or the distributor from which you purchased this device.

Should this device be passed on to other parties (for private or professional use), the content of this regulation must also be related.

Thank you for your contribution to environmental protection.

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CHAPTER 1 LOADING LABELS

This chapter covers

Label Installation

A label loading diagram can be found on the inside of the printer door for quick reference. Here are detailed instructions for loading your labels into the UC-ST Scale.



Open the printer door by pressing down on the release tab.



Pull the printer out using the green pull-tab on the printer.



Unlock and raise the printhead by pulling up on the latch (see arrow).



Install the label roll on the supply spool and remove about 6 inches of labels from the liner. Slide the labels under the guides and printhead as shown in the illustration.

Note: Do not use excessive force to pull out on the green knob. The knob does not come out all the way. Using excessive force to pull on the knob in can result in a broken locking mechanism.



Pull the liner back and route it under the bottom guide. Gently pull out on the green knob on the liner takeup and then slide the liner into slot in the roller. Note: The Green Knob does not come all the wav out.

Loading Labels

Note: Do not use excessive force to push the green knob in to lock the liner. Always remove all spent liner from the takeup roller before pushing the knob back in. Using excessive force to push the knob in can result in broken locking tabs on the green knob.



Gently push in on the green knob to lock the liner into place, and then turn the roller clockwise to take up some of the slack in the liner.



Press down on the printhead latch until it locks down.



Shown is the printer with properly installed labels.

Push the printer back in and close the door.

Loading Labels

After installing the labels, select the label size as shown below. Refer to the UC-ST Service Manual for detailed information on custom labels.



CHAPTER 2 OPERATION

This chapter covers

- Power Switch
- Scale Operation
- DB Editor Operation

Power Switch

The power switch and power cord jack are located under the touchscreen on the left front of the scale. Press the (-) on the switch to turn the scale power to ON. To turn the scale power off, always exit any editing screens before pressing the (o) on the switch to turn power OFF.

This chapter will explain the power switch, how to use the touchscreen, call up PLU

Always turn to power switch to off before cleaning the scale.



(Price Look Up) numbers, and how to print a label.

Power Cord Jack

NETWORK CONNECTION

The UC-ST can connect to your Ethernet network using a cable or using a wireless radio. If you use a wired network connection and experience connection problems, make sure your Ethernet cable is connected and seated securely in the jack, located under the touchscreen at the front of the scale. If you are connected using a wireless radio, you will see a cover protruding from the left side of the scale, indicating a wireless radio is installed.





LEVELING THE SCALE

The UC-ST scale must be level and installed on a stable counter. The level indicator is located behind the customer display, as shown below.



Level Indicator Location

The bubble in the indicator must be centered inside the circle. If the bubble is outside of the circle on the indicator, use the four leveling feet to level the scale.



QUICK START

The operator display and keyboard is a touchscreen. You simply press the keys displayed on the screen. But, please only use your fingertip to press on the keys. Do not use any sharp objects on the touchscreen. You may cause permanent damage to the touchscreen.



The scale can be operated in Numeric or Preset modes. The following sections will explain how to call up a PLU number and print a label.

ENTER and ENTER/PRINT keys

Touch To Zer	0 16 05/1	DEPT: 00 - 9/06 01:14 172.18.54.11	:20 P W 9		ENTER	PLU:	0	
Setup	BEEF	PORK	LIST QUEUE	7	8	9	CLEAR	
Vaid	LAMB	YEAL	PRINT	4	5	6		ENTER key
LIST	POULTRY	SMOKED	SUB-		<u>ר</u>	- 7		
<u>etems</u>	SAUSAGE	PREPARED	TOTAL		2	<u>ງ</u>	ENTER	•
PRESET	SEAFOOD	DELI	PRINT Men	0	ENTER/ Print	ENTER/ Meh		
ENTER/PRINT key								

Below is the Main numeric screen keyboard has a standard ENTER key and an ENTER/PRINT key.

When you key in a PLU number and press the ENTER key, the scale will next display the PLU Edit screen. On this screen, you can select different options, or just print the label.

When you use the ENTER/PRINT key, a small window displays while the label prints. No overrides or options are available when using this printing mode. If speed is the most important, the ENTER/PRINT key will print the label the quickest.

Main Numeric Entry Screen



	Preset	Page Name 🔪		Accesse Setup M Master E	s Unit Se ode or the PL cditor.	lects Numeric U Entry Screen	Clears a previous transaction.	Selects Preset	another Page. - Next
	Touch	1 To Zero	Ь		REFE	Numeric	Void	Page Forward	Preset Page.
Gro	ss Zero	OnL	inel			Setup	Page	Page Backward	Previous Preset
BEEF	CHUCK	WFM NATURAL	BEEF	EYE OF	DIESTEL	BF CHUCK	BEEF CHUCK	BEEF BOTTOM	Page.
R	OAST	BEEF	RND	STK	ORGANIC ROAST	SHLDR RST	TENDER ROAST	RND RUMP RST	
BEE	EF TOP	BEEF PRIME	BEEF	PRIME	BEEF	BEEF SIRLOIN	BEEF EYE OF	BEEF BRISKET	
Roun	D ROAST	RIB ROAST⊙	RIB	ROAST	TENDERLOIN	TIP ROAST BO⊙	ROUND ROAST	TRIMMED®	
BF	CHUCK	BEEF LONDON	BEEF	T TOP	BEEF SKIRT	BEEF SKIRT	BEEF FLANK	BEEF FLANK	Preset Keys
SHL	DR RST	BROIL TOP	ROUND	STEAK	STEAK	STK BONELESS	STKBONELESS	STEAK	used to call
BEEF	SIRLOIN	BEEF RIBEYE	BEEF	F RIB	BEEF TOP LOIN	BEEF	BACON	BEEF LION	PLUS
TIP S	TEAK BO⊙	STEAK	STEAF	< BONE	NY STRIP ST©	TENDERLOIN	WRAPPED BEEF	PORTERHOUSE	
BEE	F LOIN	BONELESS	BEER	CHUCK	BEEF SIRLOIN	BEEF ROUND	BEEF CHUCK	BEEF BACK	
T-	-BONE	BEEF	EYE TH	HIN CUT	CUBES⊙	STEW MEAT⊙	SHORT RIBS⊙	RIBS⊙	

Preset Mode Screen

Print By-Weight PLU Service Mode

To weigh one transaction of a single item, use Service Mode. Service Mode is normally the default on the PLU Edit screen. If Prepack is displayed (below Unit Price), touch the button to toggle to Service Mode. When the product label is printed and the item is removed from the scale, the PLU will clear and the scale will return to the home screen, ready for the next item.



Print By-Weight PLU Prepack Mode

When weighing more than one package of a single item, use the Prepack Mode (see below #2). Prepack Mode retains the PLU information until the Clear button is pressed. When the item is placed on the platter, the scale will automatically print a label. Removing the item and placing the next item on the platter will cause the scale to print the next label. See below for details.



Print By-Count or Standard Pack Single Label

To print a single label for by-count or standard pack without changing the quantity, follow the instructions below. If the count is different than what is programmed into the PLU record, press the Contents/Qty box, change the quantity of the item and press Enter, and then press the Print key to print the label.



Print Multiple By-Count or Standard Pack Labels



Batch Queue Mode

Batch Queue Mode is used to print batches of labels. To print Nutrition Facts or Extra Text Labels, select the label format before pressing the QUEUE key.



Zero the Scale

Gross Zero	о́ 16 057	DEPT: 00 - 19/06 D1:14 172.18.54.11	:20 P W 9		ENTER	PLU:	0
Setue	BEEF	PORK	LIST QUEUE	7	8	9	CLEAR
Void	LAMB	YEAL	PRINT	4 5		6	
LIST	POULTRY	SMOKED	SUB-	1	<u>、</u>	7	
<u>I TEMS</u>	SAUSAGE	PREPARED	TOTAL		4	J	ENTER
PRESET Hode	SEAFDOD	DELI	PRINT Mem	0	ENTER/ Print	ENTER/ Men	

If zero (0.00) is not displayed when the scale is at the Main Screen (without any items on the platter) check for obstructions touching the platter, then touch the weight display.

Label Feed



CALLING PLU RECORDS

PLU (Price Look Up) records are called (retrieved from file) two ways: Numeric Entry (Enter the PLU number on the keyboard), or Preset Entry (press one of the preset keys.)

Numeric Entry Method

If the Preset PLU entry screen is displayed, press the NUMERIC key. This will select the Numeric entry screen for transactions. To call a PLU record, enter the PLU number on the numeric keypad, then press the ENTER or ENTER/PRINT key.

Touch To Zer O.O Gross Zero	Touch To Zero 0.00 Ib ross Zero Touch To Zero DEPT: 00 - 05/19/06 D1:14:20 PW 172.18.54.119				ENTER	PLU:	0	
Setur	BEEF	PORK	LIST QUEUE	7	8	9	CLEAR	
Yoid	LAMB	YEAL	PRINT	4	5	6		
LIST	POULTRY	SMOKED	SUB-	1	<u> </u>	7		
<u>ETEMS</u>	SAUSAGE	PREPARED	TOTAL		2	<u> </u>	EHITER	
PRESET Hode	SEAFOOD	DELI	PRINT MEM	<i>(</i> 0	ENTER/ Print	ENTER/ Meh		
1. Key in PLU number. 2. Press ENTER or (Ex: 123) ENTER/PRINT								

Preset Method

When a preset key is pressed, the screen shown below will display. To call a preset PLU, press one of the preprogrammed preset PLU keys.

	Touch To Zero				RECE	Numeric	Void	Page Forward	
	Gross Zero		D inei		JECF	Setup	Select Page	Page Backward	
	BEEF CHUCK UFM NATURAL BEEF		BEEF RND	EYE OF DIESTEL D STK ORGANIC ROAST		BF CHUCK SHLDR RST	BEEF CHUCK TENDER ROAST	BEEF BOTTOM RND RUMP RST	
Press a Preset	BEEF TOP	BEEF PRIME BEE		PRIME	BEEF	BEEF SIRLOIN	BEEF EYE OF	BEEF BRISKET	
Key to call up	Round Roast	RIB ROAST⊙ RIE		ROAST	TENDERLOIN	TIP ROAST BO⊙	ROUND ROAST	TRIMMED⊕	
piesei Plus.	BF CHUCK	BEEF LONDON	BEE	F TOP	BEEF SKIRT	BEEF SKIRT	BEEF FLANK	BEEF FLANK	
	Shldr RST	BROIL TOP	Round) STEAK	STEAK	STK BONELESS	STKBONELESS	STEAK	
	BEEF SIRLOIN	BEEF RIBEYE	BEE	F RIB	BEEF TOP LOIN	BEEF	BACON	BEEF LION	
	TIP STEAK BO⊙	STEAK	STEA	K BONE	NY STRIP ST⊕	TENDERLOIN	WRAPPED BEEF	PORTERHOUSE	
	BEEF LOIN	BONELESS	BEER	CHUCK	BEEF SIRLOIN	BEEF ROUND	BEEF CHUCK	BEEF BACK	
	T-BONE	BEEF	EYE T	HIN CUT	CUBES⊕	STEW MEAT⊕	SHORT RIBS⊙	RIBS⊙	

PLU Edit Screen

After a PLU is selected, the PLU Edit screen will display. This display will differ depending on the PLU types used. If enabled in setup, certain items will be "double boxed" and can be manually overwritten by pressing the appropriate box and following instructions. All changes made through this screen will be for the current transaction only and the changes will not be saved to the PLU record.



By-Weight PLU

Service Mode

Call the PLU. If PREPACK is displayed on the EDIT screen, press that key to toggle to SERVICE. Place the item on the platter and press PRINT to issue a label. When the item is removed from the platter, the PLU will automatically clear.

Prepack Mode

Call the PLU. If SERVICE is displayed on the EDIT screen, press that key to toggle to PREPACK. Place the item on the platter. A label will automatically issue. Take the label and remove the item from the platter. The PLU will remain on the screen to weigh additional items. Press CLEAR when you are finished weighing.

The By-Weight PLU Edit Screen is shown below. By-Weight PLUs can be priced in three ways:

- Priced "Per Pound" Typically weighed items are priced per the pound. The weight multiplied by the unit price equals the total price of the product to the customer.
- Priced "Per Fraction of a Pound" (fractional) The item may also be priced by the fraction of the pound (where legal and desired). Pricing per 1/4 pound and per 1/2 pound is available.*
- "Pounds for" price The PLU may be sold with a pounds-for price (rather than price per pound). (e.g. 2 pounds for \$1.00).*

Net	ARE WEIGHT	UNIT PRICE 2.99 - \$ 7 16 -	TOTAL PRICE (\$)
PLU DESCRIPTION UNCURED TURKEY HAM		SERVICE	CLEAR
PACK DATE SHELF-LIFE USE-BY 06/30/06 06/30/06 06/30	DATE /06	GRADE	MEMORY
TURKEY BREAST, WATER, SEA SALT, CARRAGEENAN, NATURAL SHOKE FLAVOR	· [ABEL FORNAT	DDINT
		AUTO	

Notes:

- Depending on the setting of the function "Print after Motion" and "Print Key Always Active" your scale may function differently than described above. If the set up function "Print After Motion" is set to NO, you will need to press the PRINT button to print a label for each item. When this is set to YES (the factory default setting), the label prints automatically after you place the item on the platter.
- If the function "Print Key Always Active" is set to YES, the PRINT key will issue a label when pressed. If set to NO, the PRINT key will on print one label per item.

*Note: most locations, Price Per Pound/KG is the only acceptable method of pricing. In this case, the pricing is set when the scale is calibrated and sealed by a Weights and Measures certified technician.

Standard Pack PLU

If the PLU is priced as a Standard Pack item, enter the quantity of labels desired (default is 1), then press PRINT to print labels. Press the screen area to stop printing before the batch is finished.

The Standard Pack PLU allows the operator to use the scale for a labeling operation. Generally, the labels indicate the net weight of the item and total price.

CONTENTS /	DTV: OnLine1		NET WEIGHT 16.0 oz		10TAL PRICE (3)
PLU DESCRIPTION BUTTERTOP WHOLE WHEAT 1 LB LOAF			OF LABELS:	1	CLEAR
PACK DATE SHEL 07/08/06 07/	F-LIFE USE-BY DATE (14/06 07/14/06		GRADE		MEMORY
GREAT TOASTED OR WITH OUR NEW GOURMET JAMS AND PRESERVES.			ABEL FORWAT		DDINT
			AUTO		FKINI

By-Count PLU

If the PLU is priced as a By-Count item, enter the quantity of labels desired (default is 1), then press PRINT to print labels. Press the screen area to stop printing before the batch is finished.

CONTENTS/OTY: 12 OrLine1	UNIT PRICE	3.99
PLU DESCRIPTION Chocolate Chip Cookies©	ND. OF LABELS: 1	CLEAR
PACK DATE SHELF-LIFE USE-BY DA 07/08/06 07/18/06 07/20/0	GRADE	HENDRY
BARMING INSTRUCTIONS SET OVEN TO 350 DEGREES. BAKE FOR 15 MINUTES.	LABEL FORMAT	DD TUT
	AUTO	PRJNI

Manual PLU

A manual PLU is a PLU that has been programmed at the master for the "Manual" pricing mode. This allows a general PLU that can be used for incidental items that do not have a permanent PLU record. If a manual PLU is selected, a screen will be displayed to select the Pricing Mode (byweight, by-count, standard pack). Select the pricing mode, then press ENTER. The corresponding PLU Edit screen will be displayed, along with a numeric keyboard requesting essential data (such as count, prices, etc.). Adjust the fields as necessary, then press PRINT to print a label.

COOL – COUNTRY OF ORIGIN LABELING

This section describes COOL operation if it is enabled set up properly on your scale. The COOL Text is normally programmed into the PLU record and this pre-programmed COOL statement will be called up with the PLU record.

However, if allowed, you can over-ride this setting, as described in the following sections.

When COOL Text is enabled, the PLU Edit screen will show the programmed default text in a small box at the lower left of the screen. In addition, you may see a **LOT #**["] key shown next to the GRADE key that is used for a tracking number.



PLU Edit Screen with COOL Text Enabled

If the COOL Text box has a double line around it (see above), the default COOL text can be overridden on the PLU Edit screen. If COOL Text is Forced, when you call up a PLU record, you will immediately be shown the COOL Text selection screen as shown below. The second row titled "LAST" shows the COOL text used with this PLU. If the text is ok, press the box to highlight the text, or select another text and press the ENTER button to select it.



PLU: 6005 BEEF CHUCK TENDER ROAST BONELESS			
LAST: Born In-Canada;Harvested In-Canada;Processed In-USA			
Born In-Canada;Harvested In-Canada;Processed In-USA	1	u C s O	
Harvested In-Mexico;Processed In-USA			
Imported from-Argentina			
Product Of-Venezuela			
Born In-Mexico			
Harvested In-Mexico			
Product Of-Mexico;Processed In-USA			

COOL Text Selection Screen (Standard Mode)

Г

The screen below shows the "Restricted Mode" COOL text screen. In this mode, the default COOL text assigned to the PLU will be highlighted. Press the ENTER button to accept the default, or press another row to select and ENTER to accept the new text.

PLU: 6005 BEEF CHUCK TENDER ROAST BONELESS	Farm-Raised	NO C Requ	COOL ired
Born In-Canada;Harvested In-Canada;Processed In-OSH		C u C s O	Page
Born In-Canada;Harvested In-Canada;Processed In-USA		t 0 o L	UP
Born In-Canada;Harvested In-Canada;Processed In-USA			
Harvested In-Mexico;Processed In-USA		Â	Dana
Imported from-Argentina		Ë	DOUN
Product Of-Venezuela		L	
Born In-Mexico		EN	TER

COOL Text Selection Screen (Restricted Mode)

You can build your own custom statements by using the Custom COOL function. Selections will show up on the screen as they are selected. Press the UNDO button to erase the last entry. Press the ENTER key to continue, the CANCEL key to quit, or the NO COOL Required key for no COOL text.

Farm-Raised Imported Fro	om-Mexi	co;Processed In-Brazil		
PRODUCTION STEP	Farm-Rais	ed COUNTRY		UNDO
Imported From	Page	Dominican Republic	Page	CANCEL
Kaised In Born In		France Brazil		CLEAR
Product Of Processed In	DOWN	USA Canada	DOWN	ENTER

Custom COOL Screen

You may be required to select or add a Tracking Number. The tracking number select and edit screens are shown below. The tracking number may be forced. In this case, the below screen will automatically appear. If the tracking number is not forced, it can be accessed from the PLU Edit screen by pressing the "Lot #" button. The tracking number is for internal use.



Select or Edit Tracking Number



Edit Tracking Number Screen



To Access the Tracking Number, press the "LOT #" Button from the PLU Edit Screen

MANUAL OVERRIDES

The operator can change PLU fields that are double-boxed in the PLU Edit screen. Instructions for editing the fields follow.

Unit Price Overrides

The Unit Price applies only to By-Weight or By-Count PLUs. If allowed, touch the "Unit Price" area and enter the new Unit Price through the numeric keyboard. The Total Price will be recalculated using the new Unit Price and the current Weight (By-Weight PLUs) or Count (By-Count PLUs) to adjust for the change in the Unit Price.

Count Overrides

The Count applies only to By Count or Standard Pack PLUs. If allowed, touch the "Contents/QTY" area and enter the new Count through the numeric keyboard. For By-Count PLUs, the Total Price will be recalculated based on the new Count and the current Unit Price. For Standard Pack PLUs, the Net Weight and Total Price will be recalculated based on the new Count and the current values of the Net Weight and Total Price.

Total Price Overrides

The Total Price can only be adjusted on By-Count or Standard Pack PLUs. If allowed, touch the "Total Price" area and enter the new Total Price through the numeric keyboard. For By-Count PLUs, the Unit Price will automatically be recalculated based on the new Total Price and the current Count. For Standard Pack PLUs, changing the Total Price does not affect any other values.

Net Weight Overrides

The Net Weight can only be adjusted on Standard Pack PLUs. Changing the Net Weight will not affect any other values.

Tare Overrides

The Tare Weight only applies to By-Weight PLUs. If "Modify Tare" is enabled and indicated by a double line around the tare box, touch the "Tare Weight" area to enter a new value. Enter the new tare using the Numeric Keyboard or place the empty container on the platter and press the PLATTER TARE key. To clear a tare, press the CLEAR TARE key. The Weight (and, consequently, the Total Price) will be adjusted based on the new Tare Weight. When a tare is changed an, a message "New Tare Being Displayed to Customer" is displayed on the operator screen and the message "New Tare XX.XX" displays on the customer display for 1.5 seconds.

Shelf Life and Use-By Date Overrides

The Numeric keyboard will appear. If allowed, touch the "Use By Date" area and enter the new number of days from the current date or enter the exact date by typing the numeric month, numeric day, and last two digits of the year separated by the "Slash (/)" key.

Extra Text Overrides

The numeric keyboard will appear with the current extra text number displayed. (Extra text is programmed through the Master Editor, see Master Programming Manual.) If allowed, touch the "Extra Text" area and enter the new extra text number.

OPERATOR TOTALS

Operator Totals allow totals to be recorded for up to 30 operators per department. Operators are defined by number and name in the **Smart***Touch*[®] Master or scale server. They must then be enabled in **Unit Setup -> PLU Options**.

Once Operator Totals have been enabled, when in the PLU prior to printing a label you will be prompted to enter your operator number.

Net	1.00 Ib		тент)7	UNI - S	2.48	EN	ITER OF	PERATOR	₩ 7
BAVARIAN H Nater Adde	PL. DECEPTION ALF HAM D - FARMLAND			SER	VICE	7	8	9	CLEAR
PA:K : A 07/06/04	S C C	E-BY DATE 17706706	GRE	ADE	LOT I	4	5	6	
				ABEL	FDRWAT	1	2	3	ENTER
				AU	TD	0	•	BACK Space	

Operator Number Entry

MEMORY MODE

When enabled, this feature allows the user to accumulate the items purchased by a customer. When the sale is complete, an itemized receipt can be printed showing the grand total and department bar code.

Touch To Zei O.O Gross Zero	о њ	05/1	DEPT: 00 - 9/06 01:14 172.18.54.11	20 PN		ENTER	PLU:	0
Setup	BEE	F	PORK	LIST QUEUE	7	8	9	CLEAR
Void	LAM	Ð	YEAL	PRINT QUEUE	4	5	6	
LIST	POULT	RY	SMOKED	SUB-	1	2	र	
	SAUSA	IGE	PREPARED	IUIAL		4	<u> </u>	ENTER
HODE	SEAFO	OD	DEL I	PRINT Mem	0	ENTER/ Print	ENTER/ Meh	

Main Screen

Key in the PLU number and press ENTER. When the PLU Edit screen displays, press the MEMORY key to enter the transaction. You can continue to add new transaction to the memory.

CONTENTS/OTY: 12 OriLine1	UNIT PRICE 0.34 - \$ / 1 -	TOTAL PRICE (3)
PLU DESCRIPTION CHOCOLATE CHIP COOKIES®	ND. OF LABELS: 1	CLEAR
PACK DATE SHELF-LIFE USE-BY DATE 07/08/06 07/18/06 07/20/06	GRADE	MEHORY
WARHING INSTRUCTIONS SET OVEN TO 350 DEGREES. BAKE FOR 15 MINUTES.	LABEL FORMAT	DO 1 1 1
	AUTO	I KJNT

Back on the Main screen, when finished with the customer, press the SUBTOTAL key.

A window will then appear that displays the number of pieces, total price, and four options. When "Department" memory is active, you will be asked for an operator number when adding to the memory.

Touch To Zero	NFPT• NZ _	INTED DI II
Gross	MEMORY SUBTOTAL	0
<u> </u>	- PIECES : 03 - Total PDICE · 23.86	⊂ CLEAR

SUBTOTAL Screen and Options

- 1. CONTINUE to call up another item for the same customer and enter it into memory.
- 2. REMOVE ITEM to delete an item from the transaction memory by choosing it from a list. (See below)
- **3.** CANCEL to delete the entire transaction and all items in memory (a confirmation prompt will appear).
- **4.** END/PRINT to end the transaction and print the receipt (a confirmation prompt will appear after the receipt prints).

While in the memory mode, press MEMORY after each item is entered. If a separate label is also desired for each item, press PRINT to receive a label and then press MEMORY to continue. To prohibit the current item from being added to memory (before or after printing a label), press CLEAR. The memory screen will appear with the normal choices, but the "cleared" item will not be in the memory.

Notes:

- Press the ENTER/MEM key to do a quick transaction with a popup box that displays momentarily.
- When using die-cut labels, the number of items printed is limited to the label size in use. Continuous strip labels will allow for a greater number of transaction items.

To remove an item from memory, touch the item to remove it from the transaction list. Then touch YES to remove, or NO to cancel.

Γ	TRANSACTIONS	IT	ENTER	PLU:	
l	SMOKED HAM THIN SLICED				Δ
	(SMOKED TURKEY				U
Γ	HONEY HAM	- 7	0		
		· /	0	9	CLEAR
Γ		٨	5	6	
	_	+	J	0	
Γ		1	2	Z	
	_	I	4	J	ENTER
		0	ENTER/ PRINT	ENTER/ MEM	

Remove Item Screen

STANDALONE MODE DB EDITOR

Your scale may be set up as a Standalone Scale that has an internal database of records. If you are in Standalone Mode, when you press the Setup button on the home screen, a "DB EDITOR" button will be shown as a selection.

Using the DB Editor in the standalone mode, you can add PLU's, change prices, tare, Shelf Life, and Use-By dates. To remove records, an external host program must be used.

The DB Editor may be protected by a password. To access the DB Editor, press SETUP then press DB EDITOR (shown below). If a password has been programmed, enter the password.



The DB Editor screen is shown below.

Edit	Quick		Aepart	Clear		conFig	QUIT ESC
DATABAS	E ACCESS	Current D	ept: O	PLU's:	: 1650	L REC's	: 2238

Edit

The Edit functions allow editing the following records in the database:

- PLU Records (see below for details)
- Linked Records (see below for details)
- Action code Record
- Grade Record
- PLU Accumulators

Edit	Quick		Repart	Clear		conFig	QUIT ESC
pLu records							
lInked recor	ds		1				
Actian code	record		1				
Brade record	d		1				
plu accUmula	ators		1				
			-				
DATABAS	E ACCESS	Current	Dept: O	PLU' st	: 1650	L REC's	: 2238

Edit Functions

PLU Records

Select PLU Records to Add, Delete, or Modify PLU record data. Each field is presented one screen at a time. The following table lists the fields available in the PLU record.

PLU Number	The PLU number can be from one to six digits (1-999999). Entering a new number allows entry of the field data. If the PLU currently exists, the current field data is displayed and can be modified.
Item Number	This number is used in the bar code data. The Item number can be from one to 10 digits depending on the barcode format.
Description	Up to four lines of description can be programmed for the PLU record, up to 32 characters per line. To delete a character, press the Backspace button. To delete the complete line, first press the Shift button, then press Backspace.
PLU Type	The PLU Type determines the pricing mode that includes PRICE PER POUND, POUNDS FOR, PRICE PER HALF POUND, PRICE PER QUARTER POUND, BY COUNT, STANDARD PACK, and MANUAL. The choice of PLU type affects some of the menu options for the PLU Edit screen. If a change in PLU type is made, the default value for the new option is assigned.

Tare1/Ounces	This field changes depending on the PLU type. For Price Per Pound, Price Per Half Pound, Price Per Quarter Pound, and Pounds For PLUs, this field is titled TARE1 and when selected presents a numeric keyboard for the entry of the tare weight (default = 0.00). For Std Pack PLUs, it is titled OUNCES and when selected presents a numeric keyboard for the entry of the number of ounces in a pack. For By Count or Manual PLUs, this field is blank and disabled.
Tare2	This field changes depending on the PLU type. For Price Per Pound, Price Per Half Pound, Price Per Quarter Pound, and Pounds For PLUs, this field is titled TARE2 and when selected, a SELECT TARE2 TYPE screen is presented. Tare2 can be a fixed weight or forced so that the operator must enter the tare. A PERCENTAGE option is displayed but functions as the FIXED WEIGHT tare. If FIXED WEIGHT or PERCENTAGE are selected, a numeric keyboard prompts for the values of a tare weight (default=0.00). If FORCED is selected, the word FORCED appears in that field. This tare is available for the situation when 2 different tares are needed for the same product (ex with meat products, one tare is for the back room, and one tare is for the counter, after the meat has been re-packaged). For By Count, Standard Pack, and Manual PLUs, this field is blank and disabled. If Tare2 is not used, press the CANCEL button to bypass this entry.
Unit Price/Total Price	This field changes depending on the PLU type. For Price per Pound, Price Per Half Pound, Price Per Quarter Pound, and Pounds For PLUs, this field is titled UNIT PRICE and when selected presents a numeric keyboard for the entry of the unit price (default = \$0.00). For By Count and Standard Pack, it is titled TOTAL PRICE and when selected presents a numeric keyboard for the entry of the total price (default = \$0.00). For Manual PLUs this field is blank and disabled.
Shelf Life	Enter the number of days from 0 to 999 (default = 0). This is added to the current date when calculating the Shelf Life. Select Blank to blank the date from the label or Force to require manual entry of this value by the scale operator.
Use By Day	Enter the number of days from 0 to 999 (default = 0). Select Blank to blank the date from the label or Force to require manual entry of this value by the scale operator.
Group	Enter the group number between1-500, or press Enter to use no Group.
Grade	Enter the Grade number from 1-16, or press Enter to use no grade.
Extra Text Number	Enter the Extra Text number you wish to use with this PLU from 1- 999999, or press Enter (with 0 showing) to not use any ET.
Nutrifacts No	Enter the Nutrition Facts number you wish to use with this PLU, or press Enter (with 0 showing) to not use any NF.
Graphics No	Enter the number (1-999999) corresponding to a graphics image resident in the database. Graphics images are created in a graphics program that can create and edit raster images and save them as monochrome (black and white) PCX files. The graphic images are assigned a number and downloaded to the scale from an external host.

Action Code	Enter the Action Code (1-50). An Action Code will perform specific functions when the PLU is called depending on the function selected when downloaded from a host.
Barcode Type	Touch the desired bar code type to select. O Type O Prefix (No price is encoded) 1 Type 1 Prefix (No price is encoded) 2 Type 2 Random-Weight. Item number/total price encoded. 3 Type 3 Prefix (No price is encoded) 4 Type 4 Prefix (No price is encoded) 5 Type 0 Prefix (No price is encoded) 6 Type 6 Prefix (No price is encoded) 7 Type 7 Prefix (No price is encoded) 8 Type 8 Prefix (No price is encoded) 9 Type 9 Prefix (No price is encoded) Use Scale Settings
Barcode Format	When a Type-2 UPC Bar Code is selected or if the Bar Code is configured as EAN, the format of the symbol must be configured, as follows: (N=Item Number, C=Price/Weight Check Digit, \$=Total Price, X=Bar Code Check Digit, #=Weight). UPC Formats 0 = NNNNN C\$\$\$\$ X 1 = NNNNN C\$\$\$\$ X 2 = NNNNN N\$\$\$\$ X 3 = NNNNN \$\$\$\$\$ X 4 = NNNNN \$\$\$\$\$ X 4 = NNNNN C#### X 5 = NNNNN #### X 6 = NNNNN N#### X 7 = NNNNN #### X EAN Formats 0 = NNNNN \$\$\$\$\$ X 1 = NNNNN \$\$\$\$\$ X 2 = NNNNN \$\$\$\$\$ X 3 = NNNNN \$\$\$\$\$ X 4 = NNNNN \$\$\$\$\$ X 3 = NNNNN \$\$\$\$\$ X 5 = NNNNN C\$\$\$\$ X 4 = NNNN \$\$\$\$\$ X 5 = NNNNN #### X
Blank Outputs	The Pack Date, Weight, Unit Price, or Total Price can be blanked (not printed) on the label. Touch the selection to toggle Blank or Normal.
Label Style	This field represents label styles 0-7 and will override the default label style for this PLU. Style 0 is the default format. Styles 1-7 will override the default style for a PLU.
Dayglo No.	Allows the user to select a Day-Glo graphic from a numbered list.
Security Lab	Select either YES or NO to print as a security label

Sp. Price Type	Select the type of discount, or press None for no Frequent Shopper Pricing.
	List Price - (similar to a Mfg. Suggested List Price). The amount entered is always higher than the PLU unit price.
	Member Price - Discounted price for By-Weight, By-Count, or Std. Pack PLUs.
	Percent Discount - A percentage off the Total Price for By-Weight, By-Count, or Std. Pack PLUs.
	Discount Per Pack - This is a specific amount off the Package Total Price for By-Weight, By-Count, or Std. Pack PLUs.
	Discount Per Unit - This is a specific amount off the Unit Price for By-Weight PLUs.
	None - This disables Special Pricing. The value will default to zero and editing is disabled.
Spec. Price	Set a special price for the chosen PLU
Portion	Number of portions per package
Force COOL	Enforces COOL representation within the selected PLU.
Tracking	YES to apply internal reference tracking information for a specific COOL. Defaults to NO. Note: although internal, this tracking number can be placed on labels.
COOL Text	Custom COOL text linked records may be entered here
Prod. Text No.	Selected product text linked record number
Country Text	Selected Country text linked record number
Pre Text	Selected Pre Text linked record number
TLU Text	Selected TLU text linked record number
LG One Type	Linked record options: Extra Text, Graphics Record, Large Graphic Tracked
LG One	Selected LG One linked record number
LG Two Type	Linked record options: Extra Text, Graphic Record, Large Graphic Non- Tracked
LG Two	Selected LG Two linked record number

Linked Records

Select Linked Records to edit various linked records.



Select the type of linked record, then enter the associated number on the keypad to bring up a specific record. Edit accordingly and hit Quit and Save-YES.

Quick

The Quick menu allows changes to individual fields of the PLU record in the Standalone Database without the need to step through the complete file for the following fields:

- Price
- Nutrifact Number
- Tare
- Shelf Life
- Use By
- Group
- Action Number
- Item Number
- Extra Text Number
- Grade

Report

The Report menu will allow viewing totals information in the Standalone Database on the screen for the following totals.

- PLU Totals
- Group-Dept. Totals
- Production Items
- Hourly Production Items
- Department Voids

Clear

The Clear menu allows clearing the following items in the Standalone Database.

- All Accumulators by Department
- PLU Accumulators
- Hourly Accumulators by Department
- Void Accumulators by Department
- PLU Records
- Linked Records

Config

To configure the standalone database, first press conFig to display the drop down menu.

Edit	Quick		Aepart	Clear		conFig	QUIT ESC
	I	I			pAsswords		
					Store / dep	artment inła.	
					DEPARTMENT	NUMBER	
DATABAS	E ACCESS	Current C	lept: O	PLU' st	: 1650	L REC's	: 2238

The configuration options under the CONFIG key are as follows:

Passwords	The password can be up to four-digits numeric (1-9999). To clear a password, press CLEAR or enter a zero.
Store/Department Info	Configure the Store Name and Address, Department Name and Address (used on labels), and Department UPC.
Department Number	Used to select the Current Department.



UC-ST User's Guide

CHAPTER 3 CONFIGURATION OPTIONS

presets, etc.

This chapter covers

- Setup
- Configuration

UNIT SETUP

If no password has been configured, the ENTER PASSWORD screen will be bypassed. The Unit Password has two levels of access: Supervisor or Operator. The supervisor password allows entry into all of the setup functions. The operator password allows access only to functions that the supervisor allows. Disabled functions are indicated by grayed key areas. Refer to the Program Password section at the end of this chapter. For items not covered in the User's Guide, refer to the UC-ST Service Manual.

This chapter covers setup and configuration of features such as network,

U	QUIT		
PRDGRAM	SET PRESET	SE TUP	CHANGE
Presets	Touch reaction	Warquee	Tine/date
CALIBRATE/	PER LPHERAL	PRDGRAM	PRINTER SETUP
Install unit	Conf Igura tion	Label forwats	
NETWORK SETUP	SYSTEN	PLU	VER (FY
	Nanagenent	Options	Labels
VIRELESS SETUP	CHANGE	PROGRAM	SET BEEPER
	Departnent	Passvord	Duration

Program Presets

Preset Keys allow calling a PLU record with one touch of a programmed key. From the Unit Setup screen, touch PROGRAM PRESET KEYS to bring up the PRESET PAGES edit screen. Each of the 10 pages can contain up to 35 preset keys for a total of 350 presets.



To **delete** an entire Preset Page, touch the DELETE PAGE key, then touch the page you wish to delete. Complete or cancel the deletion as prompted.

To **swap** preset page key positions, touch the SWAP PAGES key, and then touch the first page you want to swap followed by the second page you want to swap.

To **edit** the page name, touch EDIT PAGE NAME, then touch the page you wish to edit. Type the name you wish to appear on key. Use the BACKSPACE key to delete existing characters, or SHIFT BACKSPACE to delete a complete line. One line of 7-8 large characters or two lines of 10 characters can be displayed. To move to the second line, touch NEW LINE.

ENTER NEW P. BEEF	AGE TITLE:			tilder		
	2 # \$ 3 4	%. 5 6	& * 7 8		- + =	BACK SPACE
QUIT	W E	R T	Y U I	: 0 P		
CAPS Lock	A S D	F G	НЈ	K L	, n	ENTER
SHIFT	ZX	c V	B N M	1 < >	? NE 7 LI	NE SPACE

To program PLUs into a page, touch PROGRAM PRESETS, then touch one of the ten preset page keys. The Preset Menu will then appear.

Touch the department box to select a new department.		ELI		BEEF	EDIT Delete Swap	Q	UIT
	BEEF CHUCK ROAST	WFM NATURAL BEEF	BEEF EYE OF RND STK	DIESTEL ORGANIC ROAST	BF CHUCK Shldr Rst	BEEF CHUCK TENDER ROAST	BEEF BOTTOM RND RUMP RST
Touch EDIT, then the preset key to add or edit a preset.	BEEF TOP Round Roast	BEEF PRIME RIB ROAST⊙	BEEF PRIME RIB ROAST	BEEF TENDERLOIN	BEEF SIRLOIN TIP ROAST BO⊙	BEEF EYE OF ROUND ROAST	BEEF BRISKET TRIMMED⊕
	RF CHUCK	BEEF LONDON BROIL TOP	BEEF TOP Round Steak	BEEF SKIRT STEAK	BEEF SKIRT STK BONELESS	BEEF FLANK STKBONELESS	BEEF FLANK STEAK
	BEEF SIRLOIN TIP STEAK BO©	BEEF RIBEYE STEAK	BEEF RIB STEAK BONE	BEEF TOP LOIN NY STRIP ST⊙	BEEF TENDERLOIN	BACON WRAPPED BEEF	BEEF LION PORTERHOUSE
	BEEF LOIN T-BONE	BONELESS BEEF	BEER CHUCK EYE THIN CUT	BEEF SIRLOIN CUBES⊕	BEEF ROUND STEW MEAT⊙	BEEF CHUCK SHORT RIBS⊙	BEEF BACK RIBS⊙

To change the **department** that you are selecting PLUs from, touch the DEPARTMENT box (upper left corner). A list of the departments with descriptions will display. Page through the list to find the desired department and touch to select it.

To **delete** an existing preset key, touch DELETE (at the top of the screen) followed by the preset key you wish to delete. Complete or cancel the deletion as prompted.

To **swap** the key locations of two preset keys on the preset page, touch SWAP (at the top of the screen), then touch the first key you want to swap followed by the second key you want to swap.

To **add** a new preset key or **edit** an existing preset key, touch EDIT followed by the preset key you wish to program. The numeric keyboard will display. Type in the PLU number or touch LOOK-UP to generate a list of PLU numbers from the current department. Page through the list of PLUs to locate the item and touch to select it.

The alphanumeric keyboard will display, and the preset key description for the item will show in the upper left hand corner of the display. The second line of text in the left-hand corner is the description editor. On new preset keys, the preset key description will default to the PLU description.

Use the keyboard to edit the preset key description. The BACKSPACE key erases one character at a time, and SHIFT BACKSPACE erases the complete line. Up to three lines of 12 characters per line are allowed. Touch the ENTER key when you are finished.

BEEF CHUCK BEEF CHUCK	TENDER ROA TENDER ROA	IST B⊧ IST B⊧¶				n I de minute m
ζ l	e # 9 2 3 4	5	^ 8 6 7	* () 3 9 0) = +	BACK SPACE
QUIT Q	W E	RT	YU	I O	P (] /
CAPS Lock	A S C	F	G H	J K L	. ; ,	ENTER
SHIFT	Z X	C V	BN	M (,	> ? • /	NEW LINE SPACE

SET PRESET TOUCH REACTION

PRESET TOUCH REACTION configures how the preset keys react when touched.

SE	LECT	PRESE	T
TO	UCH I	REACTIO	DN
EDIT PLU	PRINT Plu	1 = EDIT 2 = Print	CANCEL

edit plu	When a preset key is touched the PLU Edit screen displays, allowing the user to make changes, then touch PRINT.
Print Plu	When a preset key is touched it will call the PLU and automatically print a label. The PLU Edit screen is bypassed.
1 = EDIT 2 = PRINT	Touch the preset key once to call the PLU and display the PLU Edit screen. Touch the preset key twice in rapid succession to bypass the PLU Edit screen and print automatically.
CANCEL	Cancels operation and returns to the UNIT Setup screen.

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SETUP MARQUEE

From the Unit Setup screen, touch SETUP MARQUEE to display the Marquee Setup screen. The messages shown on the Marquee list will scroll on the customer display when the marquee is active. Any changes made at the unit will not affect the marquees stored in the master/server database. The marquee starts automatically if there is no activity on the unit after approximately 10 seconds. When the Touchscreen is touched, or if weight is added to the platter, the marquee will be suspended.



- Edit To edit or create a message, touch the EDIT key and marquee box you wish to edit.
- **Delete** To delete a message, touch the DELETE key followed by the marquee message you wish to delete.
- Swap To swap the position of a marquee with another, touch SWAP, touch the marquee to move, then touch the new location.
- **0-9** To adjust the marquee scrolling speed, change the number in the FAST/SLOW column by touching the desired speed 0-9.
- **Start/Stop** Starts or stops the marquee for testing purposes.
- Line Spacing Change the number of blank spaces between the messages.

CHANGE TIME AND DATE

From the Unit Setup screen, touch CHANGE TIME/DATE to bring up the Time and Date screen. To make changes, touch the appropriate menu option window and follow the instructions indicated below.

YONTH: +			HON	TH:	
DAY: 26	TINE AND DATE				4
YEAR: 6		7	8	9	CLEAR
DATE SEPARATOR: /		4	5	6	
HOUR: 1		1	2	3	ENTER
NJNUTE: 44 PM	DOWN	0	•	BACK Space	

Month	Numeric month 1-12.
Day	Numeric day 1-31.
Year	Last two digits of the current year 00-99.
Date Format	Date format (MM/DD/YY, DD/MM/YY, YY/MM/DD, or YY/Mon/DD).
Date Separator	Select /, -, or .
Hour	Current hour (1-12) through the numeric keyboard.
Minute	Current minute (00 - 59) through the numeric keyboard.
PM/AM	Select AM or PM by touching the appropriate window.
Time Format	Select between 12 or 24 hour formats.
NTP Server	Enter NTP Server IP
GMT Offset	± Hour offset from GMT
DST Offset	Number of minutes offest for the DST
Send Time & Date To Master	(Touch DOWN to display) Sends the time and date to a Smart <i>Touch</i> [®] master or STEM.
Sync From Master	If set to YES, the time will be obtained from the master when the UC-ST is powered up. Setting to NO will disable this function.
Use 2007 DST Rule:	YES/NO

NETWORK SETUP

If the network is local, any number can be selected for the IP Address. An IP Address consists of a group of four numbers from 0 to 255, separated by periods, for example: 207.142.140.101.

Do not duplicate numbers on the network. To enter the numbers, key in the numbers starting with the MSD (left Most Significant Digit) number. The periods are not entered in this procedure. Enter numbers lower than 100 with preceding zeros (Example: 10 is entered as 010). To exit without saving, touch CLEAR. The scale will ping the network for the IP entered. If a duplicate IP is found on the network, the message "DUPLICATE IP ADDR" will display. You must then change the IP address to a unique address on the network before the client can access the master database. The UC-ST will automatically reset on exit after changing the Network Configuration.

NET≈OR< A.TO*≏TIC					
SCALE IP: 172.D18.054.119	NETWORK CONFIGURATION	Δ	ITńw	ATTR	
SCALE PORT: 2305					
SCALE NAME:	QUII				
SCALE NAC: OD-EO-7C-01-AF-B7					
SERVER: AUTOMATIC			MAN		
SERVER [P: 000.00D.000.00D	BOUN			UNL	
SERVER NAME:	DOMM				
SERVER NAYE:					
BACKUP (P: 255.255.255.00D	NETVORK CONFIGURATION				
BACKUP NAME:					
SUBNET MASK: 255.255.254.0D0	QUII	ī		гD	
ROUTER: 172.018.054.001				ΓK	
DHCP SERVER: 172.018.054.0D2	UP				
DNS SEAVER: 172.018.048.02D	BOUN				
MANUAL TFTP SERVER:	DOMM				
YAMLAL TETA BERLER:		MANUA	IL <u>TF</u>	IP SERI	JE R:
MANUAL TETP PORT: 69	NETVORK CONFIGURATION	207	.142	. 140	.199
MANUAL BOOTFILE:		7	8	9	01.540
WARN UP DELAY:		╞╧╋		~	ULEAR
STANDALONE OPERATION:NO		4	D	Ð	
CLIENT PORT: FIXED	UP	1	2	3	ENTER
		0		,	

Configuration Options

You must first select the network boot type, Manual or Automatic. Automatic is the default. Automatic will use DHCP to automatically obtain the network boot information from a DHCP server. Manual uses a script to perform a boot from the network without changing the IP address. Details are explained in the following table.

NETWORK	 When Automatic is selected, the DHCP and BOOTP features will be used. The "SERVER IP", "SERVER MAC", "SUBNET MASK", "ROUTER", "DHCP SERVER", and "DNS SERVER" fields will display but cannot be changed. The administrator must make sure the correct data is available on the network server and the DHCP server points each client to the correct locations. With this setup, administrators can abstract and group scales in logical groups. Each group can have their own software and data settings, eliminating the need to configure each scale individually. If Manual is selected, then the DHCP feature is disabled and the TCP/IP parameters and BOOTP parameters must be entered manually. The "Server MAC" field will display but no changes are allowed. The "DHCP Server" and "DNS Server" fields will display but changes are not allowed to these fields. If a scale is set to boot Manual, then there is no network query for boot information when the scale powers up. Booting follows the path of whatever data configured on the scale. The administrator must access each scale with a manual setting on an individual basis. This feature will allow the ease of administration that a centralized, networked based boot system provides, but not require DHCP services. The Boot sequence of a scale set to a manual Boot Sequence will follow the boot sequence of the Automatic setting excluding the DHCP portion. In addition, this
	also allows a remote person (administrator, field support), to update software and data on the scale through a 'runonce' boot sequence change. This would allow them the ability, with the coordination of scale network administrator, to change configurations and software from a remote location.
SCALE IP	This is the standalone IP address. If the "Network" is set to "Automatic" this field cannot be changed. If the "Network" is set to "Manual" then this field may be changed. The IP address is entered as four sets of numbers called octets consisting of three digits. The address is entered one octet at a time. A decimal point will appear after every three numbers are entered. When there are only 1 or 2 digits in an octet, fill in with zeros. For example, 1 is entered as 001. The default value for this field is 255.255.255.000.
SCALE PORT	Used in the standalone mode. This is the TCP/IP Host Port
SCALE NAME	This is the local domain name to given to the standalone scale. Devices on the network can reference the scale by using this name.
SCALE MAC	Hardware Media Access Control (MAC) address. Each Ethernet device has a unique 6-byte MAC address. This field is displayed but cannot be changed.
SERVER	Select Automatic or Manual. If you wish to set the Subnet Mask and Router fields, set this function to Manual.

SERVER IP	This may be displayed, but is not used in the standalone mode.
SERVER NAME	This may be displayed, but is not used in the standalone mode.
BACKUP IP	If the database located at SERVER IP is un-available, the client
	will attempt to locate the record at the Backup IP location. The IP
	address is entered one octet at a time.
BACKUP NAME	This is the name of the location entered as the Backup IP.
SUBNET MASK	The mask that is used to identify the local network when
	accessing an IP address on the Ethernet network. If the "Network"
	is set to "Automatic" this field cannot be changed. If the "Network"
	is set to "Manual" thee field may be changed. The mask is entered
	one octet at a time. The default value is 255.255.255.000.
ROUTER	The router's (default gateway) IP address. The router is used
	when accessing devices outside of the local network. If the
	"Network" is set to "Automatic" this field cannot be changed. If the
	"Network" is set to "Manual" this field may be changed. The IP
	address is entered one octet at a time. The default value is
	255.255.255.000.
DHCP SERVER	Display only. This is the current IP address of the local network's
	DHCP server. This field only displays when the "Network" is set to
	Automatic and cannot be changed.
DNS SERVER	Dispidy only. This is the current IP address of the local heliwork's
	DNS Server. This held only displays when the Network is serio
MANILAL TETD	The TETP Server (Trivial File Transfer Protocol) is the location of
CEDVED	the network boot files for the scale that can include application
JLKVLK	software and configuration data
MANUAI TETP	The default port is 69. This setting can be changed by the system
PORT	administrator if needed.
MANUAL	This is the file name of the application or configuration file that
BOOTFILE	will be downloaded to the scales.
WARM UP	0-250 second delay used to allow wireless radio to initialize prior
DELAY	to scale network initialization.
STANDALONE	YES/NO : Standalone mode Enable/Disable
OPERATION	
CLIENT PORT	FIXED/VARIABLE : Scale network TCP/IP Port Configuration

Configuration Options



For your notes

CHAPTER 4 MAINTENANCE

This chapter covers cleaning of the UC-ST.

CLEANING

Disconnect power.



- Do not use solvents or commercial cleaners on the unit. They may harm the surfaces or damage the touchscreen.
- Do not spray directly on or at the unit
- Touchscreen Only use a soft clean cloth dampened with mild detergent and water to clean the Touchscreen. Do not scrape with sharp objects.
- Covers and Platter Clean using a soft clean cloth dampened with a mild cleaner or detergent and water.



Maintenance

PRINTER

Clean the printhead anytime you notice the print quality has degraded using a cleaning pen or alcohol and a cotton swab to remove any label debris or glue.



Use the supplied Cleaning Pen

Clean any glue or debris from the printhead.

Do not use any metal or sharp object to scrape the printhead. This may cause serious damage.

CHAPTER 5 LABEL REQUIREMENTS

The purpose of this chapter is to specify the requirements of thermal labels to be used in Mettler Toledo retail scale and pre-pack thermal printers. These requirements apply to your UC-ST printers. This document includes dimensional requirements, for labels and label rolls, as well as general requirements for label paper, thermal coatings, preprinting inks and adhesives. Use of label materials and designs which meet with these requirements is necessary to ensure operation of the printers in compliance with their respective functional specifications and satisfactory performance of the label in the end use environment. Labels which do not comply with all of the requirements of this document may function with limitations, but would need to be tested by the customer to insure adequate performance in their application. Customer specified (COD) software is not covered under this specification.

GENERAL REQUIREMENTS

Label Paper

DESCRIPTION, PRICE LABEL:	Premium white color, black imaging, with protective coating		
DESCRIPTION, DAY-GLO LABEL:	Red orange fluorescent, black imaging, with protective coating		
WEIGHT:	72 ± 7 grams/square meter		
THICKNESS:	82 \pm 14 μ meter (0.0032 inch)		
ACTIVATION TEMPERATURE:			
STANDARD:	Initial 74°C (165°F); Optimum 83°C (181°F)		
HIGH SPEED:	Initial 66°C (151°F); Optimum 77°C (170°F) – for highest speed printing		
HOT BOX:	Initial 83°C (181°F); Optimum 91°C (195°F) - for use on food items which are kept warm		
SURFACE SMOOTHNESS:	The surface of the finished coated paper must be smooth to prevent premature print head failure. Smoothness must be 40 Sheffield units or smoother.		
ION CONTENT:	lons such as sodium (Na) and chlorine (Cl) can cause premature failure of the glass overcoat of a thermal print head. Paper manufactured specifically for thermal printing with low ion content must be used.		
STORAGE LIFE:	18 months minimum when stored at less that 85% relative humidity and less than 35°C (95°F)		

Adhesive

Permanent pressure sensitive – Nominal thickness 10 μ meter (0.0004 inch) Label must adhere to product with a surface temperature of -15° C (5° F) minimum. Bond strength must remain permanent over a temperature range of 2°C to 35°C (35°F to 95° F)

Release Liner

DESCRIPTION:White semi-bleached supercalendered Kraft paper with silicone release coating.BASIS WEIGHT: 68 ± 3 gram/square meterTHICKNESS: $67 \pm 7 \mu$ METER (0.0026 INCH)

Total Thickness Label + Adhesive + Liner

159 \pm 17 μ METER (0.0056 to 0.0069 inch)

Light Transmission For Gap Sensor Operation

Light transmission at 800 to 900 NM wave length through the liner only must be at least 3 times the transmission through the liner and label together. This means that the transmission optical density of the liner must be at least 0.48 less than the that of the liner and label together.

Light transmission at 800 to 900 NM wave length through the liner and label together must be at least 2% of incident light. This corresponds to an optical density of 1.7.

Also see OPTICAL DENSITY DEFINITION further in this chapter.

Label Stripping

Labels must strip from the liner over a temperature range of 2°C (26°F) at 50% RH to 43°C (110°F) at 85% RH.

FINISHED LABEL ROLL REQUIREMENTS

Core and Method of Label Attachment

The label stock must **not** be permanently attached to the cardboard core. The liner must separate cleanly from the core with 1.0 pound pull tangent to the core as shown in the figure below. No core material, tape, or adhesive is to remain on the label or liner after separation. Material, especially hot melt adhesive, remaining on the label will damage the print head.



Die Cutting

Die cutting of the labels must not perforate the release liner.

Slitting

The release liner must be slit cleanly and be made free of edge slivers and dust by vacuuming or some equally effective process.

Winding

The labels must be wound face out as shown in the figure below. The finished roll must be made free of paper dust and loose particles by vacuuming or some equally effective process.



Label Curl

Stripped labels must not curl more than 0.20 inch as specified in the figure below.



Splicing

Each roll may contain one splice on non-label side of liner using 0.002 inch maximum thickness tape as shown below.



FINISHED LABEL AND ROLL DIMENSIONAL REQUIREMENTS

- STANDARD PRICE LABEL = 2.625 ± 0.01 INCH (66.7 MM)
- STANDARD LINER WIDTH (PRICE LABEL) = 2.72 ± 0.01 INCH (69.1MM)

LINER WIDTH LIMITS: 1.575 INCH (40 MM) MINIMUM; 3.346 (85MM) MAXIMUM LABEL LENGTH: 0.97 INCH (24.6 MM) MINIMUM; 7.0 INCH (177.8 MM) MAXIMUM STANDARD GAP WIDTH:

• STANDARD PRICE LABEL GAP = 0.125 ± 0.01 INCH (3.18 MM)

GAP WIDTH LIMITS: 0.078 INCH (2 MM) MINIMUM; 0.236 INCH (6 MM) MAXIMUM



PREPRINTED LABELS

To ensure trouble free operation of the printer gap sensor, and to achieve normal print head life, no pre printing should be placed on the label in the gap sensor path or in areas which will be printed by the scale printer. However, since preprinting is commonly used by many customers the following guidelines must be followed.

- Inks used for preprinting must be specially formulated for use in thermal printers. If proper inks are not used they can adhere to the print head. This ink build up on the print head will interfere with heat transfer from the print head to the paper and cause printing elements to burn out. Another problem with inks not formulated for thermal printing is that they can contain chemicals which will cause the glass overcoat to chip off of the print head, causing failure to print in the chipped areas.
- 2. If black ink is used in preprinting in the gap sensor path shown below, a dense black stripe will have to be printed on the back of the liner, as shown below, to prevent the gap sensor from being affected by the black preprinting. (Colors other than black might also be a problem and should be tested by the customer) The black stripe must have gaps which correspond to the label gaps. The black stripe on the liner must have a minimum transmission optical density of 2.3 and must be uniform. In addition, the gap sensor circuit will need to be adjusted for operation with the black stripe as explained in the product service manual. This adjustment will need to be checked any time label paper is changed, for example when labels are procured from a new supplier.



3. If an optical density of at least 2.3 cannot be achieved in the black stripe on the back of the liner, the sensor path in the center of the label must be free of black preprinting.

SPECIAL SHAPED LABELS

Labels with shapes other than rectangular will cause gap detection errors if the gap dimension in the gap sensor path is outside the limits given in this document, or if the edge of the label shape crosses into and out of the sensor path as shown below. For these cases the black stripe will have to be printed on the back of the liner. Tests will be needed to determine if the stripe as shown earlier will be adequate will be required (shown above).

The safe approach is to use the configuration shown increasing the width on all odd shaped labels.



Examples of ODD SHAPED LABELS which will cause GAP Sensor problems

DEFINITION OF TRANSMISSION OPTICAL DENSITY

Transmission optical density is defined as:

Optical Density = \log_{10} (incident light / transmitted light) = \log_{10} (100 / % light transmission)

Transmission optical density can be measured with a transmission densitometer that meets ANSI standards. Examples are the Macbeth model TD903 and TD932.

Optical density for 100% light transmission = $\log_{10} (100/100) = \log_{10} (1) = 0$

Optical density for 0.1% light transmission = $\log_{10} (100/0.1) = \log_{10} (1000) = 3$

LABEL AND LINER OPTICAL DENSITY

If liner paper transmits 2% of the light which is incident on it, the optical density is

$$\log_{10}(100/2) = 1.7$$

If the light transmitted through the liner is 3 times the light transmitted through the liner and label, the relative optical densities are:

Optical Density of Liner + Label =	log ₁₀ (10	00 / X)
Optical Density of Liner Only	=	log ₁₀ (100 / 3X)
	=	log ₁₀ (0.3333X)
	=	$\log_{10} 0.3333 + \log_{10} (X)$
	=	$\log_{10}(X) - 0.48$

Therefore, if the liner must transmit 3 times the light that the liner and label transmits, the transmission optical density of the liner must be 0.48 less than the transmission optical density of the liner and label.

BLACK STRIPE OPTICAL DENSITY

If only 0.5 % of incident light is transmitted through the black stripe, the optical density is:

 $\log_{10} (100 / 0.5) = \log_{10} (200) = 2.3$

The purpose of specifying a transmission optical density of at least 2.3 for the printed black stripe on the back of the label is to minimize any variation in light transmission as a result of black preprinting on the front of the label. This variation due to black preprinting can cause the gap sensor to give gap detection errors. Label Requirements



UC-ST User's Guide





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