R17-T10-T20 EN

T-TOUCH COUNTING

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1. Precautions

- Please read this manual carefully before start to use.
- Please make sure AC power supply voltage and use proper T-Touch scale / indicator AC adapter.
- Do NOT self-repair or disassemble this product. Please refer to any sales/service center authorized by the manufacturer.
- Do not pour water / liquid on the scale. Do NOT plug/unplug with wet hands.
- Do not pull the adaptor by its when unplug, Unplug adapter when the product will be not in use. If the product has built-in battery, before start use the product please fully recharge battery first.
- Please disconnect the power source before plugging/unplugging any connectors, maintenance, and cleaning.
- Please keep this product away from the children.
- Do NOT overload beyond the maximum weight limit.
- Do NOT place or use the scale near corrosive substances and flammable materials.
- Do NOT use this product in direct sunlight or near to heater.
- Please make sure operation temperature -10~40C and Humidity <95%
- Do NOT use strong solvent to clean this product.

2. Installation

2.1 Ports Description

USB ports can connect to a mouse, a keyboard, a bar code scanner, a 3G Internet chipset or a flash drive.

RS-232 port can connect to a printer ora computer.

AC ad

port: the device is charged when AC adapter is plugged in.

Load cell port: connect to load cell

2.2 Ports Description

The RS-232 port is located on the side or rear of the scale (refer to component description). It is a DB9 connector, and its signals are defined in the following.

Pin2: RXD, input signal

Pin3: TXD, output signal

Pin4: VCC, 5V power source, for wireless module

Pin5: GND, Grounding

When connect to computers, please use wiring (2<-->3)

2.3 Ports Description

Note: Only for weighing indicator and dual scale

Weighing indicator's will be have 1 or 2 load cell interface, which is normally located on the side or rear side (refer to component description), it is a 5pin or 7pin air connector.

Optional dual-channel scale (dual scale)has an additional load cell interface. It is a 5pin or 7pin air connector and locates on the side or bottom of the scale (refer to component description), and is wired details as follows:

5 Pin Connector
Pin 1 : Sig +
Pin 2 : Sig -
Pin 3 : Shield
Pin 4 : Exc -
Pin 5 : Exc -

7 Pin Connector
Pin 1 : Sig -
Pin 2 : Sig +
Pin 3 : Shield
Pin 4 : Sen -
Pin 5: Exc -
Pin 6 : Sen +
Pin 7 : Exc +

Note: if using 5 wire load cell, and if load cell connector has 7Pin, please short-circuit SEN+ to EXC+, and SEN- to EXC-.

3. Basic Operations

3.1 Power on

Press and hold ON/OFF key until to hear a beep sound. It will take around 30 seconds for to run the TOS operating system and application software.

3.2 Standby

Press ON/OFF keyfor to keep display standby / sleep. Press ON/OFF key again for to turn on the display.

3.3 Power off

Press and hold ON/OFF key until to show a Power Off window. Touch option YES to power off or NO to back to use.

3.4 Reboot

Hold ON/OFF key for 6 seconds, the system will reboot to recover from abnormal situation.

Keys	Description
	Press ON/OFF key for to turn to power ON, power OFF, standby and system
	restart
	Press MENU key for to go to the menu operation, a menu table will be show at
	the bottom of the display.
	Press HOME key for to show the home screen.
	Press TARE key for to tare the scale. The weight that was displayed will be store
	as the tare value and that value will be subtracted from the measurement,
->>	leaving zero on the display. The "Net" indicator will be on.
	Press ZERO key to set the reading to zero (within the allowed range of 2%max).
	Usually it's required only when the platform is empty. When the zero point is
	obtained, the zero indication will be show

4. Panel Key Functions

5. Touch Key Functions

Keys	Description
apple	Product Look Up (PLU)
SEARCH	Product list search
G UNT	Change unit
HL0	High / Low Setting
PRODUCT	Product group
RECORD	Sales / Weighing Record
G/N	Shift to Gross and Net
SAMPLE	Sampling Operation
8 + um	Input unit weight
PAGE PAGE	PLU Page up and down
Д. Hilo	High / Low Limits Operation

ave	Save and print
D TOTAL	Accumulation recall
RECORD GRAPHIC	Record and Graphic

6. Indications

Indications	Description
→0←	when the scale back to zero or by pressin ↔0 key
→T←	When Tare, by pressing 🔷 key
	When the scale is in stable.
Max=	Maximum capacity of the scale
min=2	Minimum weight of the scale
, d=1	Division of the scale
v1.00I	Software version
	Battery status
₩	Unit price weight is too low
2012/8/12 6:00	Date and time

7. Touch Keys Operation

7.1 Product Look Up

apple

Press wey (PLU key) for to get product information

7.2 Products List& Sales Record

Press Rever to show the PLU list for to select the product,

7.3 Sales Record

Press RECORD key to show the weighing records. It will show counting list details.

7.4 Products Search from the list.

Press key, display will be show the products list and numeric keys for to enter PLU no. Enter PLU number and press OK key, display will be show the products list accordingly. If want to go to back from the search list press back key.

7.5 Sample Operation.

If you know the items quantity, place the known quantity items on the platform and press key for to input known sample value. Display will be show numeric keys and "Quantity" display will be show and blink for to input Quantity value. Input value by pressing numeric key and press OK key for to confirm. "Quantity" display will be show the sample value and "Unit Weight" display will be show the value of the per unit value.

If you want to exit from the sample input option, press back key when it's shown numeric keys. If the display showing Usymbol, please redo your sampling operation with higher quantity. Unit Weight operation.

7.6 Unit weight operation.

If you know the unit weight value, it can input by pressing wey. Numeric keys will be show and "Unit Weight" display will be blink for to input value. Press numeric keys for to input "Unit Weight" value and press OK key for to confirm. "unit Weight" display will be show the sample weight and "Quantity" display will be show the total pcs accordingly.

If you want to exit from the sample input option, press back key when it's shown numeric keys.

If display **W**symbol, to ensure the counting accuracy, please re-enter a higher unit weight or use higher resolution scale.

7.7 Change Weighing Unit.

Press key for to change weighing unit to " kg" / " lb"

7.8 Gross/ Net Operation.

Press **G/N** key to shift between gross weight and net weight. This function is only available after tare.

7.9 Page up / Down

Press key for to PLU list up or press key for to PLU list down





7.10 High / Low limit Operation.

Press key for to set High and low limits, *Numeric keys will be show and "Lo Limit" display will be blink for to input value. Press numeric keys for to input "Lo Limit" value and press OK key for to confirm. "Hi limit" display will be blink for to input Hi limit value and press OK key for to confirm. If you want to exit from the sample input option, press back key when it's shown numeric keys.*

If weighing range is below of the lower limit, weight display back ground will be "Orange Color", if its between the limits, "Weight" display back ground will be "Green Color" and if weighing range is higher than the limits weight display back ground will be "Red color".

7.11 Accumulation

Once select the PLU and place the goods on the platform, Press key to save data to the memory and if printer is connected, printer will be print.

7.12 Memory Recall and Delete memory

Press key to recall accumulation memory. Display will be show total saved data, printing and memory clear options

Options:

MC (Memory Clear): By pressing MC, all saved data will be clear.

Print: By pressing Print key, accumulation data will be print, if printer is connected.

Print-MC: By pressing Print-MC key, it will print accumulation data and will clear all memory.

Esc: By pressing Esc key, it can go back to normal display.

7.13 Graphic

Press RAPHIC key to change to graphic mode

8. User Interface Operations.

8.1 Graph mode

Press Graph button to perform weighing operation visually.

This graph includes a range of check bar and target

quantity reference table. This will help to improve efficiency and avoid mistakes.



8.2 Full-screen Mode

Touch main weight display window, it will change to full screen display mode. In full screen display mode, only have 5 keys: weight, quantity, lock, unit, and M+. Press weight display window again to return to normal display mode.



8.3 Record mode

Press RECORD button to view previous weighing record, which includes serial number, product name, weight, unit weight, quantity, and time.

Weight		Max 30 kg e= 2 K g Min 100 g			0g v1	g/pcs	0.000	
		U.		JU	kg	PCS		0
No.	Product	Weight(kg)	g/pcs	Piece	Time		G/N	Ω
001	apple	2.00	50.00	15	09:05	BEARCH	OROSSANET	HUID
002	banan	1.50	20.00	20	09:20	aEARCH	UNUBBINET	mineo
003	orange	4.20	30.00	35	09:50		8+	+ + +
004	orange	5.50	30.00	10	10:02	PRODUCT	U.W.	UNIT
005	apple	2.00	50.00	5	10:05			-
006	grapes	3.10	0.80	16	10:20			-+
007	grapes	2.50	0.50	29	10:25	PAGE	SAMPLE	SAVE
008	Pear	1.00	100	31	10:30			Σ
009	Pear	2.00	80.0	29	10:40	PAGE	GRAPHIC	TOTAL

9. Menu popup

Press key, a menu table window will be open at the bottom of the display.

9.1 On-Screen Keyboard

On-Screen Keyboard will be open automatically for to edit or input new data,



English/numeric: input English letter and numeric

Backspace

Tab: when input text, use this key to change line

SIGN: Special symbols.

123: Numeric keyboard

X: Exit editing

: Shift to Capital letter / small letter.

9.2 Setting Parameter

Press key for to enter into the parameter settings. Settings display will be open.

Setting		Basic Information
Basic Information>		User Information
System Setting	>	Advertising
Weighing Setting	>	
Operation Setting	>	
Calibration	>	
Communication	>	

Basic Information	User Information		For to edit user information's,		
	Advertising		For future modification		
System Setting	Gravity	9.794 >	For gravity settings,		
	Date and Time	>	For to set date and time and date/time		
			format		
	Language	English >	For to select language		
	Back light	80% >	For to adjust display brightness,.		
	Touch Screen Corre	ction >	For touch screen calibration,		
	Software Update	>	For to update software		
	System Information	T/OS v1.03>	For to check OS version and memory		
			status		
	Set Password		For to set password		
	Reset Database		For to reset Product and Record data		
Weighing Setting	Approval Setting	NONE >	For to select approval or no n		
			approval model		
	Range Mode	SINGLE >	Select weighing range		
	Decimal	0.000 >	Scale decimal settings		
	Capacity	30.000 >	Scale capacity settings		
	Division	5 >	Scale division settings		
	Auto Zero	%50 >	For to select auto zero range		
	Manual Zero	% 2>	For to select manual zero range		
	Zero Tracking	2d>	For to set automatic Zero tracking		
			For to select multi tare operation		
	Tare Mode Multi-Ta	are Permission O			
Operation Setting	Measure Speed	Medium >	AD Speed settings		
	Measure Unit	kg lb>	Weighing units enable / disable		
	Check Beep Mode	No Beep >	Beep sound settings for check		
			weighing		
	Acc only when ok	Off >	Accumulation settings		
Calibration	Calibration	2013-07-25	For normal calibration		
	Linearity Calibration	>	For Linear Calibration		
	Trim	>	Trim adjusting		
	Internal Counts	0 >	Internal counts checking		
Communication	Com Off	9600 8 None 1 >	Communication settings		

• Note: Please refer 4. Parameter Settings for operations.



Press to add product PLU, press to delete current product PLU, press to edit current product PLU; Press to clear all product information, press button to cancel the action, and velocity button to save.

9.4 Reports

Press Key for to get different management report. It can check daily, monthly and product/custom based report.

▲ →0+ →T+	Max	=600kg	e=10g, min=:	200g v1.0	01	0 2012/8/12 6:00 P
Daily report	۰	No.	Product	Weight(kg)	Tare(kg)	Time
Week report		01	Screw1	5.35	4.5	11:03
Month report	0	02	Screw2	5.35	4.5	11:03
monurreport		03	Screw3	5.35	4.5	11:03
Custom report		04	Screw4	5.35	4.5	11:03
		05	Screw5	5.35	4.5	11:03
		06	Screw6	5.35	4.5	11:03
Print		Tota		0.00		

9.5 Data Import / Export

Press key to import preset PLUs to scale or export weighing records to a PC.

9.6 Accumulation mode

Press for to select accumulation mode option. Three accumulation modes are there:

Manual; for manual accumulation,

AutpAcc (load); for auto accumulation when goods placed on the platform, Auto Acc (unload); for auto accumulation (unload).

9.7 Print Format

Press Print key for to print format settings.

Select label or receipt, and select from the existing formats. Print preview will display on the right. Once select the format, press "default" button to confirm. Then select desired printing to finish setting the format.

→0←	Max 30 kg	min 2 Kg	d = 100 g	v1.03	2013/8/12 18:00
Paper Formal 2	Format 2 Format 4 Format 6 Format 6		Comp Telephy V 2012- NO.: Product NO Product NO Product: Weight: 5.000k; Counting	opany Name any Addres ones Numt Vebsite 03-20 20:2 (: Unit V g 4.1 ; 20	e ss ver 1001 Apple Veight: 99g/pcs 000 pcs

Note: You may select none or multiple printers. If none, it will not print; if multiple, it will print from multiple printers.

10. Parameter Settings

Press menu button. Click on settings to enter the detail settings page.

On-Screen Keyboard will be open automatically for to edit or input new data when It's touching to the required field.

On-Screen Keyboard operation

English/numeric: input English letter and numeric

Backspace

- Tab: when input text, use this key to change line
- SIGN: Special symbols.
- 123: Numeric keyboard
- X: Exit editing

t

: Shift to Capital letter / small letter.

11. Basic Information

11.1 User information

Select settings -> basic information -> User information.

The company information interface will be appear, it can insert information by using on-screen keyboard. If you touching somewhere in the required field, on-screen keyboard will be appear.

Click on << at the left corner keyboard for to exit editing.

Company information will be included in the receipt and reports, and <u>company logo</u> will be appear when turning on the machine.

11.2 System settings

11.2.1 Gravity settings

Select setting -> system settings -> gravity settings.

Input gravity value by using on-screen keyboard. Click << key at the top of the left corner to exit editing. Please ensure that you have input correct gravity value every time before calibration

11.2.2 Date and Time

Select settings -> system settings -> Date and Time setting.

Insert date and time by using on-screen keyboard / calendar. It can choose different date and time formats.

Click << key at the top of the left corner to exit editing.

11.2.3 Language settings

Select settings -> system settings -> Language.

Select language from the list.

System will restart after changing and confirming by pressing OK option, If want to go back, press CANCEL option.

11.2.4 Backlight

Select settings -> System settings -> Backlight.

Scroll left or right by using adjusting bar for to adjust brightness of the backlight. Click << key at the top of the left corner to exit editing.

11.2.5 Touch-screen correction

Select settings -> System settings -> Touch-screen correction.

A confirmation pop-up will appear. Confirm to enter calibration page. A white cursor will appear in a black screen; keep clicking on the white cursors until completing the calibration process. Note: Take effect after re-starting the scale.

11.2.6 Software Update

Unzip the software update file into flash drive's home directory, file folder name should be "Tscale Update" and insert the flash drive into the USB port.

Select settings -> system settings -> Software Update.

A confirmation pop-up will appear; confirm and finish the updating process. System will restart after the update.

11.2.7 System information

Select settings -> System settings-> System information Display will be show Operation System version, remaining storage memory, and other system

information.

11.2.8 Set password

Select settings -> system setting->Set password,

Input current password at first (initial password: 0000), then input new password twice as per choice. Then Press OK to confirm.

11.2.9 Reset database

Select settings -> system setting->Reset database.

Press reset, system will clear all data in the database.

The machine has some preset data for testing purpose. Before using the scale, please clear all data in database. Please do this operation very carefully. This operation will remove all data in database.

11.3 Weighing setting

Note: If want to change any weighing settings, it will ask password. Default password is 9999.

11.3.1 Approval setting

Select settings -> weighing settings -> approval setting.

Select the approval (OIML / NTEP) / non approval option. Click << key at the top of the left corner to exit editing.

	OIML	NTEP	None approval
Auto zero range	10%	10%	According to user setting
Manual zero range	2%	2%	According to user setting
Auto zero tracking	0.5e	0.5e	According to user setting
Zero in net mode	disable	disable	enable
Calibration switch	need	need	No need
overload	Max+9e	105%Max	Max+9e
Weighing unit	kg	lb	selectable

Authentication details are below

11.3.2 Weighing Mode

Select settings -> Weighing Settings ->Range mode. Select signal range, dual interval, dual range, for to select weighing mode. Click << key at the top of the left corner to exit editing.

11.3.3 Decimal point

Select settings -> Weighing Settings -> Decimal setting. Select desired decimal point from the list.

11.3.4 Capacity Setting

Select settings -> Weighing Settings -> capacity setting.

Use the number keypad to input capacity (two windows will be appear for double indexing value or dual range/dual interval). Click << key at the top of the left corner to exit editing.

Note: When using dual interval or dual range, it is required to have max2 > max1.

11.3.5 Division setting

Select settings -> Weighing Settings -> Division.

Select the desired division from the list. Click << key at the top of the left corner to exit editing. Note: When using dual interval or dual range, it is required to have e2 > e1.

11.3.6 Auto zero range (initial zero)

Select settings -> Weighing Settings -> Auto Zero.

Select the desired choice from the list. Click << key at the top of the left corner to exit editing. Note: This setting will be disabled in approval model.

11.3.7 Manual Zero range

Select settings -> Weighing Settings -> Manual Zero, Select the desired choice from the list. Click << key at the top of the left corner to exit editing.

Note: This setting will be disabled under approval mode.

11.3.8 Auto zero tracking

Select settings -> Weighing Settings ->Zero Tracking. Select the desired choice from the list. Click << key at the top of the left corner to exit editing. Note: This setting will be disabled under approval mode.

11.3.9 Tare Mode

Select settings -> Weighing Settings ->Tare Mode. Select the desired continuous tare choice. Click << key at the top of the left corner to exit editing. Note: This setting will be disabled under approval mode.

11.4 Operation Settings

11.4.1 Measure speed

Select settings ->Operation Settings ->Measure speed. Select the desired Measure speed choice (Slow/Medium/Fast). Click << key at the top of the left corner to exit editing.

11.4.2 Measure Unit

Select settings ->Operation ->Measure unit. Select the desired unit choice (kg/lb). Click << key at the top of the left corner to exit editing.

11.4.3 Check Beep Mode

Select settings ->Operation ->Check Beep Mode. Select the desired mode (No Beep/Beep On Ok/ Beep On Ng). No Beep: There is no beep sound while check weighing operation Beep On Ok: It will get beep sound, when between the high –Low limits. Beep On Ng: It will get beep sound, when its more than higher limit. Click << key at the top of the left corner to exit editing.

11.4.4 Acc only when ok

Select settings -> Operation ->Acc only when ok.

For to select accumulation turned on/off, select the desired choice. Click << key at the top of the left corner to exit editing.

11.4.5 Weight Mode

Select settings -> Operation -> Weight Mode. Select the desired mode. Click << key at the top of the left corner to exit editing.

11.5 Calibration

11.5.1 Calibration

Select Settings -> Calibration ->

Calibration set up display will be open.

Select start and enter step 1: Zero calibration. Unload platform and wait for the stability signal, and click next. Input required calibration weight value and click to confirm.

Place the standard weight as per entered calibration weight value, on to the platform and wait for to get stability signal, and click next.

Note:

Calibration failure: please check the standard weights, stable indication and internal counts. If ok, restart the calibration

Calibration success: Select preference of the next calibration. Click finish. System will remind the user for the next calibration when the date comes.

11.5.2 Linear Calibration

Select Settings -> Calibration -> Linear calibration .

Select start and enter step 1: Zero calibration. Unload platform and wait for the stability signal, and click next.

First point calibration: Select an integer weight value, for better performance keep 25% of the scale capacity. Wait for the stability signal, and click next.

Second point calibration: Select an integer weight value, for better performance keep 50% of the scale capacity. Wait for the stability signal, and click next.

Third Point Calibration: select the maximum scale capacity value, ie; 100% of the scale capacity..

The last point must be full capacity.

Calibration ends when the last point is finished.

11.5.3 Trim

Select Settings -> Calibration ->Trim .

It can use for to adjust weight value, if you know the exact weight value or required value.

Display will be show current weight, and weight after correction.

it can use -1d, -10d, +1d, +10d keys for to adjust, when the right window shows the correct weight,

press OK for to confirm. Click<< key to go back to the setting mode.

During correction, if you want to give up current operation, just press reset key.

11.5.4 View Internal Counts

Select Settings -> Calibration -> Internal Counts.

The AD internal counts will be appear. Click<<key to go back when finish viewing.

11.6 Communication

11.6.1 Serial Ports

Select settings -> Communication.

Select the serial port and edit its options, including transmit mode, baud rate, data bits, and stop bits.

Click << key at the top of the left corner to exit editing.

When the printer is set to CONT mode, the serial port continuously outputs the following (all data is in ASCII code, baud rate 600-9600 bps, 8-bits, and no parity.)



12. Maintenance

12.1 Error Message

Error message	Solution	
Out of zero range	Zero operation will not work when current weight is out of the zero range.	
	For approved model, manual zero range is 2% of capacity	
No A/D signal	A/D chip or load cell / connections damaged and need replacement	
Unstable, can't zero	Please only perform zeroing when stable indication turns on	
Cannot Tare	Tare operation does not work when current weight is negative or zero.	
	Tare value should be higher than the minimum capacity (20d)	
Out of initial zero	This error message will only show when starting the machine.	
range	For approved models, it is outside the 10% of capacity.	
Overload	Unload if any goods on the platform, Check load cell and try to re-calibrate.	
	For normal model, overload is max+9d; for OIML approved model, overload	
	is max+9e; for NTEP model, overload is 105% max	

12.2 Specification

Capacity		Tabletop Scale: 3kg/6kg/15kg/30kg/45kg		
		Weighing indicator: free setting		
		Platform scale: 30kg/60kg/150kg/300kg/600kg		
External	None	3000e	2x3000e dual range	
resolution	approved			
	approved	2x30000e dual range		
Tare range		Max-1d		
Pan size		Tabletop scale A/Q series: 230x300mm		
		Tabletop scale J series: 240x370mm		
		Platform scale: 350x450mm/420x520mm/600x800mm		
AD method		Sigma delta		
AD speed		Max. 60 times/second		
Internal counts		1,000,000		
Weighing unit		kg, g, oz, lb		
Calibration u	nit	kg, lb (lb only for NTEP model)		
Load cell exc	citation	5VDC		
Input signal range		0~20mv		
Zero point signal range		0~5mv		
Load cell sensitivity		1mv/v~3mv/v		
Load cells		up to 4 x 350 ohms cells		
Operation ter	mperature	-10~40C		
Operation humidity		<95%		
Display		7" TFT LED backlight		

Display resolution	800x480
Display H/V ratio	16:9
Touch control mode	Resistance screen
Communication interface	1xRS-232、2xUSB
Optional interface	Wifi、zig bee
CPU	iMX233 (ARM9 kernel) 454MHz
RAM	128MB DDR
Data memory	256MB NAND flash
power	AC adapter 12V/2500mA or main power 110V/220V

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