AVAWEIGH 334PCN10 Digital Portion Control Scale User Manual

Contents

AVAWEIGH 334PCN10 Digital Portion Control Scale

INTRODUCTION

General and Safety Information

- For use in dry enviroments only.
- Read and understand all operating instructions before using this product. Keep manual for future reference.
- Allow sufficient warm up time. Turn the scale on and allow up to 10 minutes for internal components to stablize before weighing.
- Record the weight shortly after placing a load on the platter. Leaving loads in place for extended periods may vary the load cell’s output signature and may result in a less accurate reading.
- Avoid extended exposure to extreme heat or cold. Optimum operation is at normal room temperature. See the operating temperature range in the specifications table. Allow the scale to acclimate to room temperature before using.
- When storing the scale for extended periods, the battery must be charged every 90 days to avoid premature performance degradation. Over time, the operating time per charge will degrade. If the operating time is no longer acceptable even after recharging, the battery must be replaced.
- Electronic scales are precision instruments. Do not operate near cell phones, radios, computers, or other electronic devices that emit radio frequencies that may cause unstable readings.

SPECIFICATIONS

	334PCN10	**334PCN20**

MAX CAPACITY	10 lb (5kg)	20 lb (10kg)
READABILITY (certified e)	0.005 lb (0.002 kg)	0.01 lb (0.005kg)
READABILITY (d)	0.001 lb (0.0005 kg)	0.002 lb (0.001 kg)
MIN RECCOMENDED WEIGHT	0.1 lb (0.0.04 kg)	0.2 lb (0.1 kg)
CONSTRUCTION	Stainless steel pan, plastic housing	
WEIGHING UNITS	g / kg / lb /oz	
CALIBRATION UNITS	kg / lb	
MODES	Weighing	
WEIGHT DISPLAY	1-Window backlit LCD display, 17.5mm (0.68″) high, 5½ digits, 7-segme nt	
ZERO RANGE	Power-on zero range: calibration zero point±20% FS; ZERO key	
TARE RANGE	Up to 100% FS	
STABILIZATION TIME	<3 seconds	
OPERATING TEMPERATURE	o˚C to 40˚C (32˚F to 104˚F)	
HUMIDITY RANGE	≤85% relative humidity, non-condensing	
POWER SUPPLY	6* AA batteries or AC power adapter (9Vdc/600mA, central postive)	
SAFE OVERLOAD CAPACTIY	150% of capacity	
COMMUNICATION PORT	RS232	

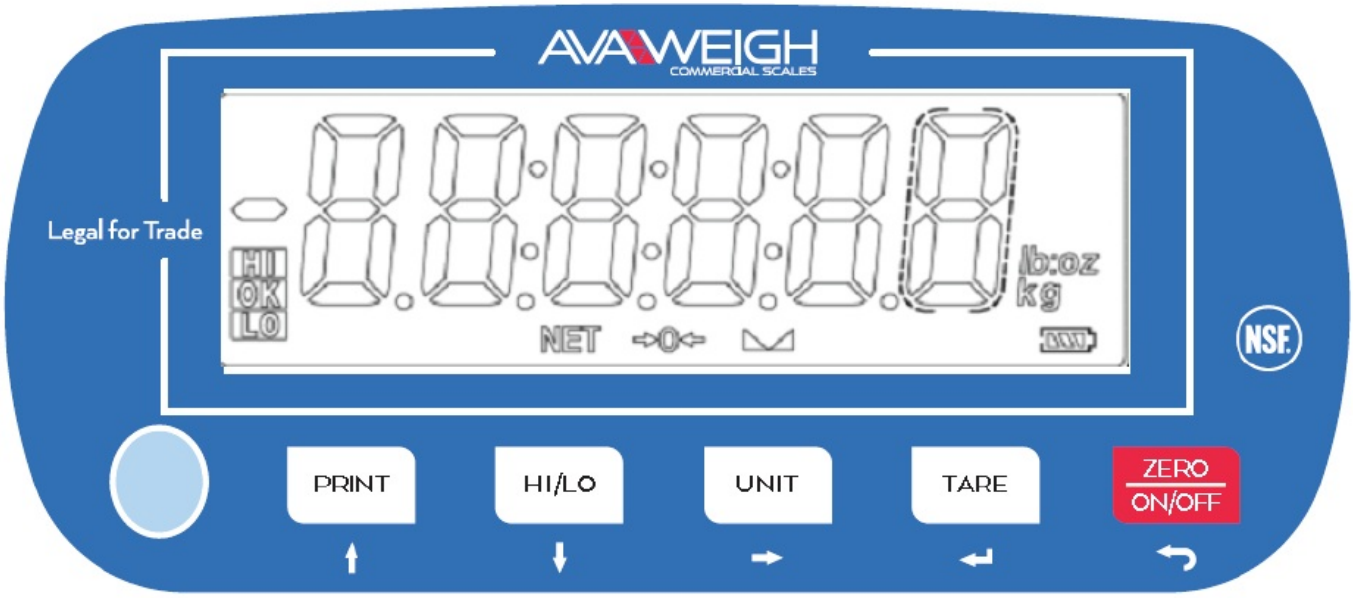
CERIFICATION	NSF, NTEP

CONTROLS & FUNCTIONS

INDICATIOR DISPLAY CHARACTER DEFINITIONS

ASCII	LCD/LED Show	ASCII	LCD/LED Show	ASCII	LCD/LED Show
0		A		N	
1		B		O	
2		C		P	
3		D		Q	
4		E		R	
5		F		S	
6		G		T	
7		H		U	
8		I		V	
9		J		W	
		K		X	
		L		Y	
		M		Z	

FRONT DISPLAY



- →0← – Scale is zeroed, gross weight is 0, tare is 0.
- – Scale is stable.
- **NET –** Display reading is net weight; tare is not 0.
- **lb –** Measure unit is lb or lb:oz
- **oz –** Measure unit is 0z or lb:oz
- **KG-** Measure unit is kg
- – Battery level.
- **HI –** Data compare (check-weighing) is enabled. Current data (weight, pieces, or percent) is above the specified upper limit.
- **OK –** Data compare is enabled. Current data is between the specified upper and lower limits.
- **LO –** Data compare is enabled. Current data is below the specified lower limit.

KEY FUNCTIONS

Key	Mode		Definition
PRINT	Weighing mode	<3s	Output data from communication port. In EXPAND mode, no data output
		>3s	Enter the mode of viewing or selecting the Item Code
	Input mode		Increases the digit in the flashing data entry position by one
HI/LO	Weighing mode	<3s	Enter the Check-weighing mode
		>3s	Enter or exit EXPAND mode when CONFIG-EXP = on and LFT. ON
	Input mode		Decreases the digit in the flashing data entry position by 1, or modify the menu selection
UNIT	Weighing mode	<3s	Switch weighing unit of measure
		>3s	Enter the mode of parameter setting for RTC
	Input mode		Shifts the flashing data entry position from left to right
	Inner code/voltage mode		Switch to view Inner Code and Voltage
TARE	Weighing mode		Tare the weight, range 0-100%FS
	Input mode		Confirm input Data / Confirm menu selection
	Inner code mode		Tare the inner or recover the tared inner code
ZERO ON/OFF	power-off		Power on the scale
	weighing mode	<3s	Zero the platform weight
		>3s	Power off the scale
	other modes		Cancel the operation and restart the scale
ZERO ON/OFF + TARE			Enter into calibration mode when LFT is set to OFF
ZERO ON/OFF + UNIT			Enter into USER menu parameter setting when scale is on

OPERATION

POWER ON / POWER OFF SCALE

- Place the scale on a flat, table surface. Level the scale using the leveling bubble at the lower left side of the display.
- With the weighing platter empty, press the ON/OFF/ZERO key to power on the scale.
  The self-check will run, show the version number “V01.00”, display full capacity e.g. “CAP-xx”, at last, the scale will display a zero reading.
- To power off the scale, press and hold ON/OFF/ZERO key.

ZEROING THE DISPLAY

- You can press the ON/OFF/ZERO key at any time to set the zero point from which all other weighing is measured. When the zero point is obtained, the display will show the indicator for zero.
- ZERO key range is (power-on zero-point)±2% FS. ZERO function is only activated when the scale is in a steady weighing mode. This also clears the recorded tare weight, the ZERO indicator will be lit up, while the NET indicator will be off.

NORMAL WEIGHING MODE

- When scale is powered on and back to 0, place the weighing objects on the platform. The display will show the weight and the units of weight currently in use.

TARING

- Zero the scale by pressing ON/OFF/ZERO key if necessary when reading is stable. The zero indicator will be on.
- Place container on the platform, a value for its weight will be displayed.
- Press the TARE key to tare the scale. The weight that was displayed is stored as the tare value and that value is subtracted from the display, leaving zero on the display. The “NET” indicator will be on. As product is added only the weight of the product will be shown. The scale could be tared a second time if another type of product was to be added to the first one. Again only the weight that is added after taring will be displayed.
- When the container is removed a negative value will be shown. If the scale was tared just before removing the container this value is the gross weight of the container plus all product that was removed. The zero indicator will also be on because the platform is back to the same condition it was when the ON/OFF/ZERO key was last pressed.

SWITCHING MEASURING UNIT

- In normal weighing mode, press and hold UNIT key to switch the measuring units betweek lb, kg, g, oz, lb:oz.

CHECK WEIGHING (DATA COMPARE)

- Check-weighing is a procedure to cause an alarm to sound whent the weight on the scale meets or exceeds values stored in memory. The memory holds values for a high limit and a low limit. Either limit can be used or both can be used.
- In normal weighing mode, press the HI/LO key, the display will show “COMP”, then set the high and low limitation as per the following steps.
- Press the PRINT key to increase the digit in the flashing data enrty position by one.
- Press the HI/LO key to decrease the digit in the flashing data enrty position by one.
- Press the UNIT key to shift the flashing data entry position from left to right.
- Press the TARE key to confirm the input data.
- Press the ON/OFF/ZERO key to exit the mode and back to normal weighing mode.

After pressing the TARE key, the scale will return to weighing with the Checkweighing function enabled. When a weight is placed on the scale the HI/OK/LO symbol will be shown if the weight is above or below the limits and beeper function will sound as described below.

- **BOTH LIMITS SET**

  The display will show “OK” when the weight is between the limits.
- **LOW LIMIT SET, HIGH LIMIT IS SET TO ZERO**

  The display will show “OK”when the weight is higher than the Low Limit. Above the High Limit the display will show “LO”.
- **HIGH LIMIT SET, LOW IS SET GREATER THAN HIGH**

  The display will show “OK” when teh weight is less than the High Limit. Above the high limit, the displau will show”HI”.

  NOTE: Beeper sound works depending on how the Cbz xxx in user manual is set.

SET REAL-TIME-CLOCK

In normal weighing mode, press and hold UNIT key until RTC is displayed, “XX.XX.XX” will be displayed, use below keys to alter date settings.

- Press the PRINT key to increase the digit in the flashing data entry position by one.
- Press the HI/LO key to decrease the digit in the flashing data entry position by one.
- Press the UNIT key to shift the flashing data entry position from left to right.
- Press the TARE key to confirm the input data.
- Press the ON/OFF/ZERO key to exit the mode and back to normal weighing mode.

When “XX.XX.XX” is displayed, follow the above same operations to do the same TIME setting.
After the date and time is set correctly, the scale will automatically return to the normal weighing mode. Otherwise, it remains in real-time-clock setting mode.

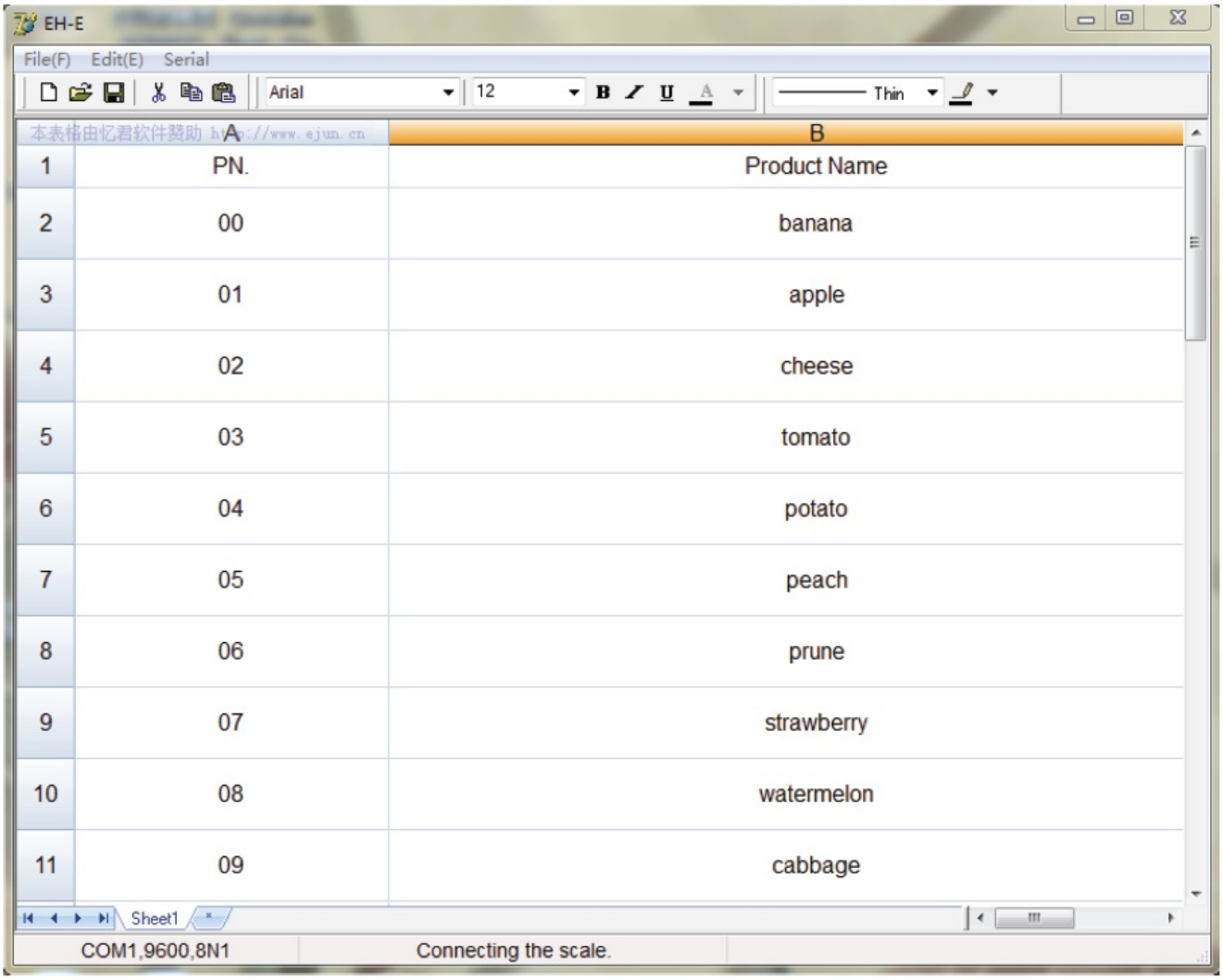
SET ITEM CODE

In normal weighing mode, press and hold PRINT key until ITMC xx is displayed xx, is the item code (range 00 – 39, correspond to a product name with max length of 20 char) and will be stored in scale after setting. Use below keys to do the item Code setting.

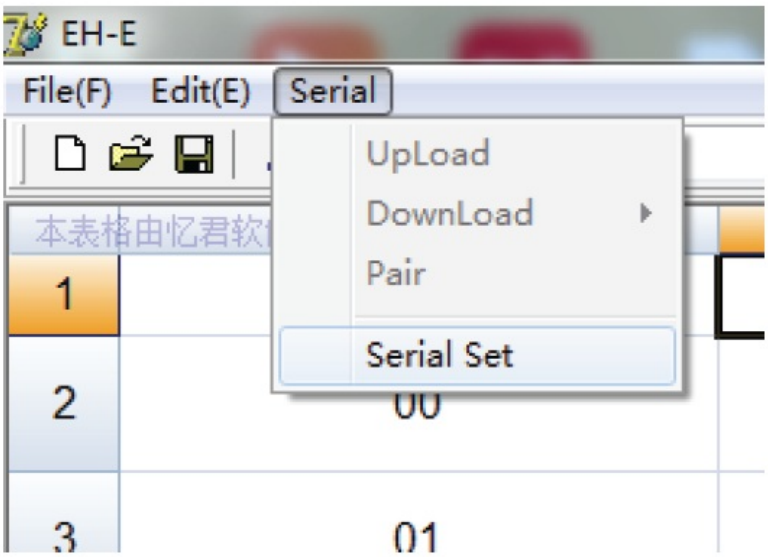
- Press the PRINT key to increase the digit in the flashing data enrty position by one.
- Press the HI/LO key to decrease the digit in the flashing data enrty position by one.
- Press the UNIT key to shift the flashing data entry position from left to right.
- Press the TARE key to confirm the input data.
- Press the ON/OFF/ZERO key to exit the mode and back to normal weighing mode.

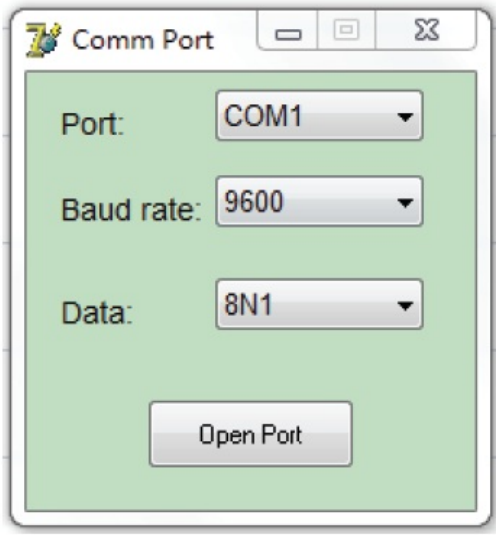
DOWNLOAD PRODUCT NAMES TO SCALE VIA SCALE MATE SOFTWARE

1. Open the scale mate software, input the product name. The edited information can be saved as “.xls” file.



2. Connect the scale with the computer via RS232 port, then power on the scale. Normally, the scale will be automatically connected to the computer and shows”This scale is connected”. If not click the “Serial” menu on the software to set the baud rate to 9600 and Data to 8N1, then confirm by clicking “open port”.





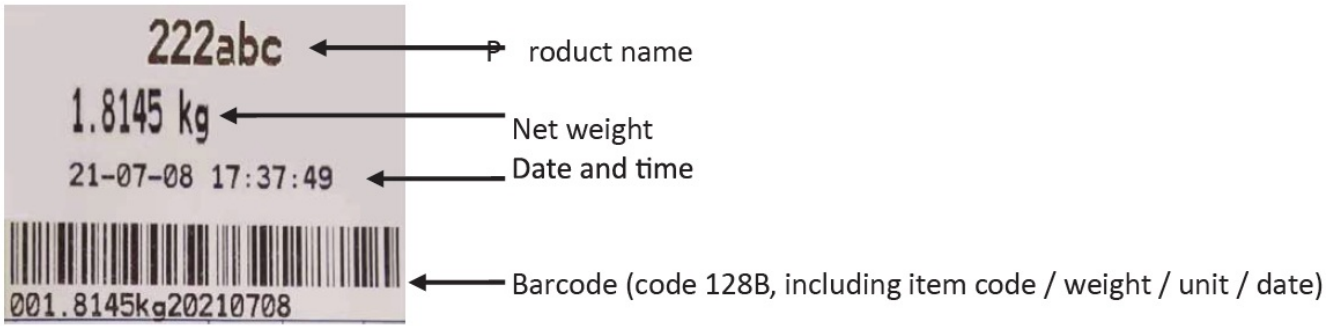
3. Open the edited “.xls” file click “download” in serial menu to download the product names into the scale.

DATA OUTPUT (PRINT)

Whe reading is stable, press PRINT to output data via the RS232 port to PC or OS- 2130D printer.

- **RS232 output baud rate:** 9600bps
- **Data:** 8N1 (8 dta bits, 1 stop bit, 1 start bit)

1. **Printout format in HOST mode (a PC is connected):**
    - **Date:** x x – xx – xx
    - **Time:** x x : xx : xx
    - **P.No:** xx (item code)
    - **P.NM:** xxxxxxxx (product name)
    - **Gross:** x.xxx uu (uu = kg, g, lb, oz)
    - **Tare:** x.xxx uu (uu = kg, g, lb, oz)
    - **Net:** x .xxx uu (uu = kg, g, lb, oz)
2. **Printout format when OS-2130D printer is connected (example):**



USER SUBMENU

1. When the scale is on, press ON/OFF/ZERO and UNIT keys till USER is displayed, then release the two keys.
2. Press and hold ON/OFF/ZERO to exit durring the mode.

Submenu	Option	Default	Remark
Aot.x	0-9	5	Auto Off Time set **0**: not auto power off; **1-9**: auto power off after 1-9 minutes when no operation and no weight change.
blt.x	0-1-2	2	LCD backlit set: 0 : always off; 1 : always on; 2 : auto on when key operation or weight changing, auto off after 15 seconds.
cst.x	0-5	5	LCD contraction level selection **1-5:** from weak to strong
prt.xxx	hst	OS	RS232 interface connection set: **HST** - connect to a computer; **OS** - connect to OS-2130D printer.
	os		
Cbz.xxx	off	in	When BUZZER beeps in Check-weighing mode: **OFF**: not beep; **OUT**: beep when lower than low limitation or higher than high limitation; **O.H**: only beep when in higher than Hi limitation; **IN**: beep when in range of low and high limitation; **L. L**: only beep when lower than LO limitation;
	out		
	Oh		
	in		
	Ll		

Documents / Resources

	AVAWEIGH 334PCN10 Digital Portion Control Scale [pdf] User Manual 334PCN10 Digital Portion Control Scale, 334PCN10, Digital Portion Control Scale, Portion Control Scale, Control Scale, Scale