AVA WEIGH
COMMERCIAL SCALES

USER MANUAL

NSF

Pizza Scales
with Wireless Digital Display

334PZ10	334PZ30	334PZ60
10 lb.	**30 lb.**	**60 lb.**

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GENERAL & SAFETY INFORMATION

- **Risk of electric shock: disconnect all power sources before making cable connections to the floor scale platform or indicator.**
- **For use in dry environments only.**
- **The floor scale platform is very heavy. Use appropriate lift equipment.**
- **Scale platform must be installed on a foundation capable of safely supporting the weight of the floor scale plus the weight of the maximum load.**
- **Do not operate in hazardous areas.**

- Read & understand all operating instructions before using this product
- Keep this manual for future reference.
- Record the weight shortly after placing a load on the platform. After extended periods, the load cell's output signal may result in a less accurate reading.
- Avoid extended exposure to extreme heat or cold. Optimum operation is at normal room temperature. See operating temperature range in the specifications table. Allow the scale to acclimate to room temperature before using.
- Allow sufficient warm up time. Turn the scale on and allow up to 2 minutes for internal components to stabilize before weighing.
- 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.
- This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the 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 this 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 their own expense.
- Avoid using in heavy vibration or heavy airflow conditions. This also applies when the floor scale is integrated into conveying systems.

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SPECIFICATIONS

		334PZ10	334PZ30	334PZ60
CAPACITY	**OZ**	176 oz. x 0.05 oz.	528 oz. x 0.1 oz.	1056 oz. x 0.2 oz.
	LB	11 lb. x 0.005 lb.	33 lb. x 0.01 lb.	66 lb. x 0.02 lb.
	LB:OZ	11 lb.:0.0 oz. x 0.1 oz.	33 lb.:0.0 oz. x 0.1 oz.	66 lb.:0.0 oz. x 0.2 oz.
	KG	5kg x 0.002kg	15kg x 0.005kg	30kg x 0.01kg
	G	5000g x 2g	15000g x 5g	30000g x 10g
WEIGHING UNITS		kg / g / lb. / oz. / lb.:oz.		
BASE DIMENSIONS		14"L x 14"W x 1.93"H (355mm x 355mm x 49mm)		
CONSTRUCTION		ABS Base, Stainless Steel Platter		
DISPLAY		0.625" (16mm) 7-Segment LCD, 51/2 Digits		
RESOLUTION		1:2500	1:3000	1:3000
INTERFACE		USB (for connecting with foot pedal only)		
POWER		Indicator: 4 x AAA Batteries or 9V 600mA Adapter (Center Positive) Platform Base: 6 x AA Batteries or 9V 600mA Adapter (Center Positive)		
ZERO RANGE		± 20% of Full Capacity		
TARE RANGE		Full Capacity		
STABILIZATION TIME		<3 Seconds		
OPERATING TEMP		40° - 105°F (5° - 40°C)		
HUMIDITY RANGE		<90% Relative Humidity, Non-Condensing		
MAX OVERLOAD		120% of Capacity		

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DISPLAY CHARACTERS

SYMBOL	DIGIT	SYMBOL	DIGIT	SYMBOL	DIGIT
0	0	A	A	N	N
1	1	B	b	O	o
2	2	C	C	P	P
3	3	D	d	Q	q
4	4	E	E	R	r
5	5	F	F	S	S
6	6	G	G	T	t
7	7	H	H	U	U
8	8	I	I	V	U
9	9	J	J	W	U
		K	K	X	X
		L	L	Y	Y
		M	M	Z	Z

CONTENTS

- Indicator
- DC9V 600mA Power Adapter
- Scale Platform
- Owner's Manual

Indicator

Scale Base

foot pedal (optional)

INDICATOR DISPLAY

334PZ30   Capacity: 30lb x 0.1oz / 15kg x 5g

ZERO

HOLD
R.Lo.B

NET   LINK

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HOLD   UNIT   TARE   ZERO ON/OFF   NSF.
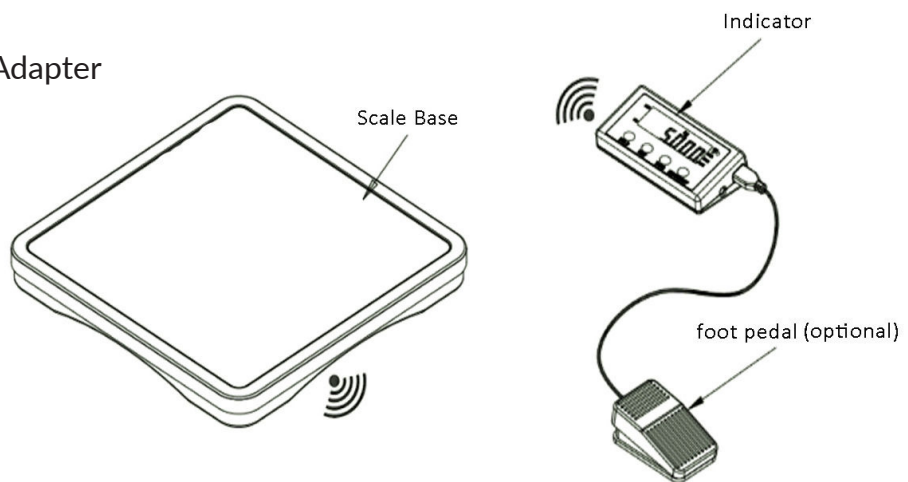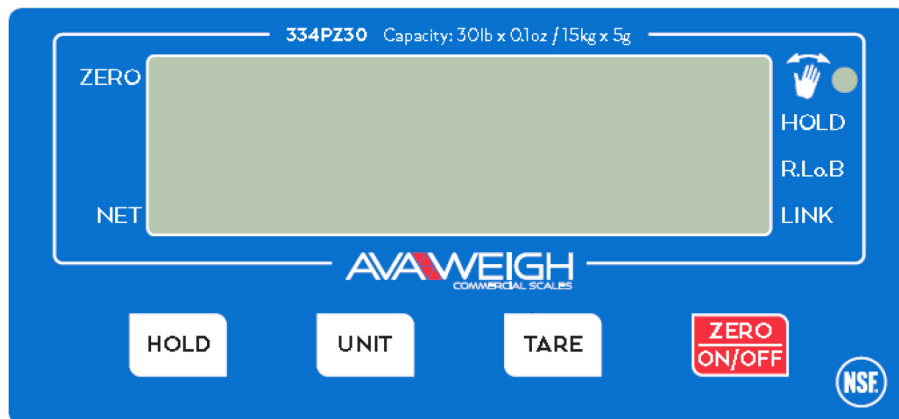
- **ZERO** - Scale is zeroed and gross weight is 0, tare is 0.
- **NET** - Displays net weight, tare weight > 0
- **HOLD** - Scale is in dynamic weighing mode
  - Flashes: Actual fluctuating weight is displayed.
  - Steady: Locked weight is displayed.
- **LINK** - Wireless connection indication.
  - Flashes: Not connected.
  - Steady: Connected.
- **R.LoB** - Low battery indication for platform base.
- **Lo. Bat** - Low battery indication for indicator.
- **lb, kg, oz** - Unit of measure.
- - Light sensor to allow users to tare the scale with a hand wave.

FUNCTION KEYS

KEY	MODE	FUNCTION
HOLD	Weighing Mode	Enter/Exit HOLD Mode
	Digit Input Mode	Shift the Flashing Data Entry Position from Left to Right
UNIT	Weighing Mode	Select Weight Unit of Measure
	Digit Input Mode	Increase the Digit in the Flashing Data Entry Position by 1
TARE	Weighing Mode	Tare the Weight
	Setup Mode	Confirm the Input Data and Forwards to Next Step
ON/OFF/ZERO	Weighing Mode (<3 Seconds)	Zero the Platform Weight
	Weighing Mode (>3 Seconds)	Power Off the Scale
	Digit Input or Calibration Mode	Exit to Normal Weighing Mode
HOLD + TARE	Normal Weighing Mode (>5 Seconds)	Enter Indicator and Platform Base Pairing Mode
ON/OFF/ZERO + TARE	Power Off (>5 Seconds)	Enter Calibration Mode

BASE LIGHT INDICATION

- **Green Light Flashes Slowly** - Bluetooth is connected.
- **Green Light Flashes Quickly** - Bluetooth is NOT connected.
- **Yellow Light Flashes Slowly** - Bluetooth is connected, but battery is low.
- **Yellow Light Flashes Quickly** - Bluetooth is NOT connected, and battery is low.
- **Red Light Flashes Slowly** - Something wrong with Bluetooth module, scale cannot work.
- **Red Light Flashes Quickly** - Something wrong with the scale, scale cannot work.

NOTE: Slow flash means the light flashes once in about 2.5 seconds.
Quick flash means the light flashes 2.5 times in 1 second.

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OPERATIONS & SETTINGS

NORMAL WEIGHING MODE

1. Power on the scale platform by pressing the power key on the side of the platform, power on the indicator by pressing the **ZERO/ON/OFF** key.

2. Now the light on the platform flashes, and indicator displays ⌒⌒⌒⌒⌒, which means the indicator is connecting with the scale platform.
   - If connection is successful, the indictor will display CAP⌒⌒⌒ and full capacity, then back to 0.
   - If connection is failed, the indicator will display ⌒⌒dE⌒⌒, which means the matched platform cannot be found.

3. When the display stabilizes, but doesn't show 0, press **ZERO/ON/OFF** to set a new zero point.

4. Place objects on the scale platform and read the weight on the indicator.
   NOTE: Objects should be placed at the center of the platform. Corner or side loading heavy objects may risk overloading an individual load cell and damage the scale.
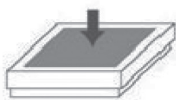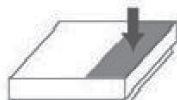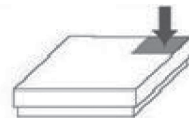
 YES   NO   NO

5. To change the weight unit of measure, press the **UNIT** key.

6. To hold the weight data, press the **HOLD** key.

7. Power off the scale by pressing and holding the **ZERO/ON/OFF** key for 4 seconds.

ZERO FUNCTION

1. If the display does not show 0, and there is no object on the platform, press the **ZERO/ON/OFF** key to zero the reading.
   NOTE: Zero range is ±20% of full capacity.

TARE FUNCTION

1. Zero the scale as described above.

2. Place an empty container on the platform, press the **TARE** key. The display will return to zero, eliminating the weight of the container. **NET** will be lit on the display.

3. Place the material or object to be weighed in the container. The net weight will be displayed.

4. To exit tare mode, remove all weight from the scale. The display will show a negative weight. Press the **TARE** key to return the display to zero.

PARAMETER SETUP

1. Under normal weighing mode, press and hold **UNIT** and **ZERO/ON/OFF** keys for more than 5 seconds to enter Parameter Setup Mode.

2. During the setup mode, use **UNIT** key to change the selection, use **TARE** key to confirm, use **ON/OFF/ZERO** key to exit the mode.

   NOTE: Parameter setting must be done when scale and indicator are connected.

PARAMETER	OPTIONS	FACTORY SETTING	DEFINITION
Aot	0-9	5	**A.O.t. - Auto Off Time Set:** 0 = No Auto Time Off 1-9 = Auto Power Off After (1-9) Minutes of No Activity
Pt	0-8	5	**P.t. - Wave Tare Sensitivity Set:** 0 = Wave Tare Disabled 1-8 = Sensitivity Level (1=Close, 8= Long Distance)
PtS	0-1	1	**P.t.S. - Wave Tare Indication Sound Set:** 0 = Mute 1 = Beeps
KS	0-1	0	**K.S. - Push Button Sound Setting:** 0 = Mute 1 = Beeps
bLt	0-9	3	**BLt. - LCD Backlight Set:** 0 = Always Off 1 = Always On 2-9 = Auto On When Key Operation or Weight Change Between (2-9) Units, Auto Off After 15 Seconds Elapse
HLm	0-1	1	**HL.M. - HOLD Mode Set:** 0 = Press HOLD key to hold the NLD.xx set weight. When HL.D = 0, Press HOLD key again to release the held weight. When HL.D ≠ 0, auto exit hold mode after xx minutes set in HL.d 1 = Press HOLD key to hold the current weight. When HL.D = 0, the scale will auto hold a new weight after the scale is back to 0. When HL.D ≠ 0, the scale will auto hold a new weight that exceeds xx*10 units (xx refers to setting in HL.d)
HLd	00-99	10	**HL.d. - Parameter to Match HL.M:** When HL.M = 0 HL.d refers to HOLD time, unit is minute When HL.M = 1 HL.d refers to vibration range of date before holding a new weight
NLd	3-99	10	**N.Ld - Minimum Weight that can be Held:** <3 = Forced to 3 Units 3-99 = (3-99) Units
dAt	3-30	10	**D.A.T. - Average Data Time for HOLD Mode:** NOTE: If the data is not stable during the set time, then take the average weight to hold. <3 = Forced to 3 Seconds 3-30 = (3-30) Seconds >30 = Forced to 30 Seconds

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CALIBRATION

NOTE: Before calibrating the scale, you should prepare standard weights (1/4, 1/3, 1/2, 2/3, 3/4, or 100% of full span capacity) for calibration.

NOTE: In the following steps, pressing **ZERO/ON/OFF** will exit calibration.

1. Under normal weighing mode, press and hold **TARE** and **ZERO/ON/OFF** keys for more than 5 seconds to enter Calibration Mode.

2. The indicator will show `CAL-0`, which means the scale will begin to calibrate the zero-point on the scale. Remove all weight from the scale. Press the TARE key to confirm. After receiving the reasonable zero-point data, the next step will automatically occur.

3. When `CAL-P1` is displayed, and then `1-4FS` and "kg" or "lb" indicator flashes, press and hold UNIT key for more than 3 seconds to choose the right weighing unit of the loaded CAL weight, short press UNIT key to choose the calibration weight value between `1-4FS`, `1-3FS`, `1-2FS`, `2-3FS`, `3-4FS`, `FS` (which means 1/4, 1/3, 1/2, 2/3, 3/4, or 100% of full span capacity weight). Now load the corresponding weight onto the scale platform. When the scale gets a stable inner code, it will automatically enter into next calibration point.

4. When `CAL-P2` is displayed, and then `1-2FS` flashes, load 1/2 of full capacity weight onto the scale platform. When scale gets a stable inner code, it will automatically enter into the next calibration point. Or press and hold **HOLD** key for more than 3 seconds to skip `CAL-P2` to `CAL-P4`, and go to the last step.

5. When `CAL-P3` is displayed, and then `3-4FS` flashes, load 3/4 of full capacity weight onto the scale platform. When scale gets a stable inner code, it will automatically enter into the next calibration point.

6. When `CAL-P4` is displayed, and then `FS` flashes, load full capacity weight onto the scale platform. When the scale gets a stable inner code, it will automatically ienter into next calibration point.

7. When `CEnd` displays for 2 seconds, and displays the last calibration point weight, the calibration will be finished and automatically return to normal weighing mode.

REPLACING INDICATOR OR PLATFORM BASE

NOTE: If there are more than one 334PZ model scale in the same room, power off all the other scale bases and indicators before matching a new indicator or base.

NOTE: Calibration needs to be performed if replacing the scale base.

NOTE: Calibration does NOT need to be performed if replacing the indicator.

1. Power on the scale base and indicator. Press and hold HOLD and TARE keys until the indicator shows PAir.

2. Press **TARE** key to confirm, the indicator displays SCAN, which means the indicator is searching for a nearby device. About 5-10 seconds later, the indicator will show the MAC address of the bluetooth module in nearby device. If no device was found, the indicator will show NodEv, then return back to PAir .

3. Press **UNIT** key to check whether more than one MAC address was found. If yes, select one of the MAC addresses, press **TARE** key to confirm.

4. If the indicator shows LLonb, then shows Cxxxx, this means the indicator successfully connected to a scale base (xxxx is the inner code of the scale base). Now press the scale base with your hand. If the xxxx value changes, this means the indicator has connected to the correct base. Now, press **TARE** key to confirm, then the indicator will show PoU and back to PAir, now press **ZERO/ON/OFF** key to exit the mode. Indicator and base pairing has been completed.

5. If the xxxx value did not change when pressing the scale base, press **UNIT** or **HOLD** key to step back and choose another MAC address to connect.

6. If the indicator displays LLErr, this means a wrong device is selected, choose another MAC address to connect.

SYMBOL DEFINITIONS

NO.DEV No nearby Bluetooth device available for connection.
LINK - - - Finding an available Bluetooth device.
BT.ERR Something wrong on the Bluetooh module.
BAT.LO Battery is low.
PZ.ERR Error in power-on zero point.
^^^^^ Overload

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TROUBLESHOOTING

SYMPTOM	PROBABLE CAUSE	REMEDY
Cannot Power On	AC adapter is not connected securely	• Re-plug the AC adapter or rotate the plug to securely connect it to the scale.
	Low battery	• Replace the batteries.
	Indicator is damaged	• Replace with a new indicator and perform calibration.
`NodEC`	Indicator cannot find its matched platform	• Check whether platform is powered on. • Re-match the indicator and the platform.
`0`	Weight reading exceeds or is below Power On Zero Limit	• Ensure the scale platform is empty. • Perform Zero Calibration.
`0`	Indication is out of Key Zero Range	• Reduce the weight on the platform until the indication is within the key zero range. • Check whether an object is stuck between the load cell and scale base. If yes, remove the object.
`EPErr`	Cannot get Zero Point	• Rematch the indicator and platform. • Perform Zero Point calibration.
`8`	Weight reading exceeds overload limit or is below the under load limit	• Reduce load on scale until the weight value is displayed. • Use a more appropriate unit of measure. • Perform Zero calibration.
`8`	Weight value cannot be displayed in the current unit of measure because it exceeds 5 1/2 digits	
`CALEr`	Input data or loaded weight is too small or too large	• Input correct data, load correct weight onto platform. • Return the scale for repair.
	Weight signal is unstable or non-linear	
Cannot Zero the Display	Load on scale exceeds allowable limits (2% FS)	• Remove load on scale.
	Load on the scale is unstable	• Wait for load to become stable, then press the ZERO/ON/OFF key to zero the display.
Weighing is Not Accurate	An object is stuck between load cell and scale base	• Remove the object. • Perform Linear calibration. • Put the weighing object on center position of the platform.
	Load cell received a heavy impact	
`rLobt` `LobAt`	Low battery	• Replace with new batteries.