MyWeigh iBALANCE i211 Table Top Digital Lab Scale User Manual

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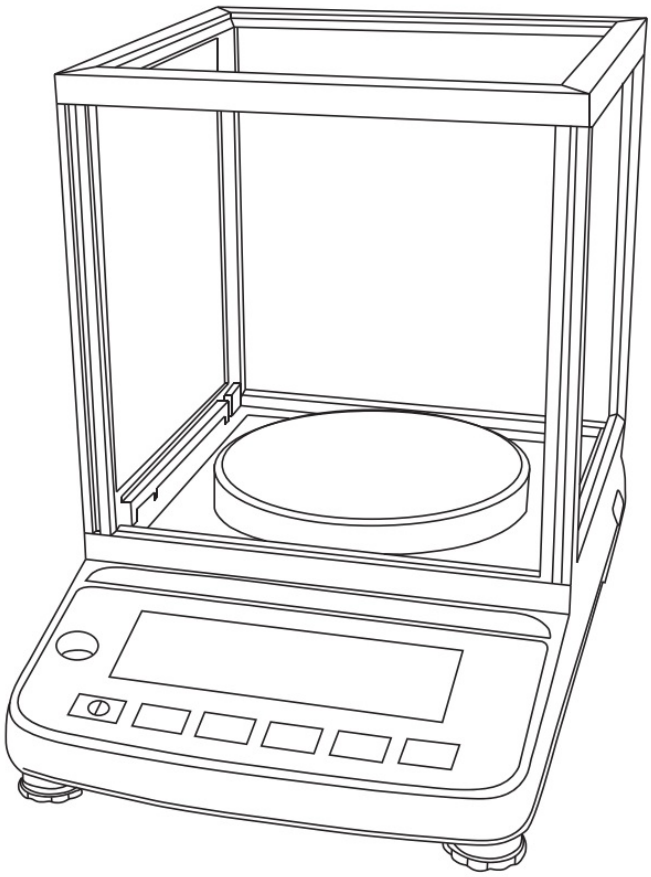

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THANK YOU

for purchasing the My Weigh® iBALANCE-211® digital scale. Please read all operating instructions carefully before use. This electronic scale is a precision instrument. With normal care and proper treatment, it will provide years of reliable service. For more information please visit www.myweigh.com

Never load the scale with more than the maximal capacity. Although the iBALANCE-211® is designed to be extremely durable with extra overload protection built into the case, overloading will permanently damage it! Avoid any exposure to extreme heat or cold, your scale works better when operated at normal room temperature. Keep your scale in a clean environment. Dust, dirt, moisture, vibration, air currents and/or a close proximity to other electronic equipment can all cause an adverse effect on the reliability and accuracy of your scale. Handle with care. Gently apply all items to be weighed onto tray top. Avoid shaking, dropping or otherwise shocking the scale. Scales are delicate instruments and unlike cellular phones, scales have delicate sensors that determine how much an item weighs. If you drop or shock your scale, these sensors “feel”the shock and are sometimes destroyed. This happens with all digital scales. We design our scales to be as resistant to shock or drops as

possible, however there is no way for us to protect 100% against load cell or sensor damage.
Failure to follow these instructions will void your warranty.

Always allow the scale to acclimate to normal room temperature for at least one hour before use. Give your scale sufficient warm up time. Usually 30-60 seconds before calibration to give the internal components a chance to stabilize.

PRECAUTIONS BEFORE USING THE BALANCE

1. Operate the balance on a stable, vibration free surface.
2. Please use an independent power outlet to avoid interference by other electrical appliances.
3. Don't put any object on balance before powering on.
4. When possible please allow the scale to warm up for several minutes before operation.
5. Items should always be placed on the center of the platform when being weighed.
6. Operating temperature range: 10 ~ 40.
7. For optimum accuracy, recalibrate before each use.

POWER SUPPLY

AC ADAPTER

The scale can be powered by an AC adaptor- output is DC 4.5 ~ 6 volt. Please only use the correct AC adaptor for this scale – an incorrect AC adaptor can cause damage to the scale and possible fire or injury. Use of an incorrect AC adaptor will also void your warranty.

Batteries

Low Batteries & bad battery connections are the #1 cause of scale malfunction and inaccuracy! We test all of our scale returns from consumers and 60% of them are battery related problems. This sounds silly but it's true! A scale will perform poorly when it has low batteries. Use good quality batteries & replace them often (Remove the batteries if you plan to store the scale for longer then 14 days). We include good quality batteries with all of our scales but they can run low in storage. If your scale simply won't turn on while on battery power, it is often caused by loose battery connections. Battery prongs (terminals) are made of metal and they have to be in contact with the batteries. You can use a paperclip to slightly bend the battery prongs to have a better connection. Some poorly designed batteries have recessed or partially obstructed battery terminals. This may cause your prongs to be touching the plastic housing of the battery instead of the metal of the battery terminal.

Battery installation

a) Press and lift open the battery cover located at the bottom of the unit.
b) Insert the batteries and make sure the polarity is correct (+) and (-).
c) Close the battery cover until it clicks shut.
Note: If the battery symbol appears in the display, it means low battery power. It is time to replace the battery. If the power is too low, it will show "Lo" when powered on and then it will turn off automatically.

OPERATION INSTRUCTIONS

Weighing Procedures

1. **Press [ON/OFF] ⏻ to turn on the scale.**

When the power is turned on, the scale will countdown for a few seconds and “O” will appear on the display.

2. **Select the weighing unit with [UNIT] key.**

   Press [UNIT] to select a weighing unit g, oz, ozt, dwt, lb, ct.

   Once the unit has been selected, the selected unit will be displayed next to the weight value.

3. **Start weighing**

   Verify the reading is “O”. Place objects on the weighing platform to weigh.

   When the reading becomes stable, the stable indicator is displayed.

Tare

Tare can be used for eliminating the weight value of an empty container. Place an empty container on the scale and press [TARE].

Then place the items to be weighed in the container. NOTE: When all weight is removed from the weighing tray, the tared value of a container will be displayed as a negative number. Press [TARE] again to return the scale to zero.

CALIBRATION

When to calibrate – calibration is RARELY required.

Calibration may be required when the scale is first set up for use, or if the scale is moved to a different altitude or new location. This is necessary because the weight of a mass in one location is not necessarily the same in another location. Also, with time and use, mechanical deviations can occur.

How to calibrate: **you must have an accurate 100g/200g weight or combination of weights in order to calibrate**

Sensitivity Calibration

1. Press [CAL] to enter calibration mode, the scale will display “SCALE” or” LINE”.
2. Press [MODE] to toggle between “SCALE” = balance sensitivity & “LINE”= balance linear.
3. Choose “SCALE” and Press [TARE] to confirm.
4. The balance will display the calibration weights 100g/200g. Press [MODE] to toggle between the desired weight and press [TARE] to confrim.
5. The display will flash the correct calibration weight. Now place the calibration weight on the platform. Once the display has stopped flashing remove the weight and the calibration process is complete.
6. Now place the calibration weight on the platform. Once the display has stopped flashing remove the weight and the calibration process is complete.

Linear Calibration

1. Press [CAL] to enter calibration mode, the scale will display “SCALE” or “LINE”.
2. Press [MODE] to toggle between “SCALE” = balance sensitivity &”LINE”= balance linear.
3. Choose “LINE” and Press [TARE] to confirm.
4. The balance will display the calibration weights 100g / 200g to be placed on the platform. Press [MODE] to toggle between the desired weight and press [TARE] to confirm.
5. Now place the corresponding calibration weight on the platform. Once the display has stopped flashing remove the weight and the calibration process is complete.

FEATURES

Overload Indicator
When an applied load exceeds the capacity, “Err 1 will appear on the display. Remove excessive load immediately. The unit may return to normal operation. Remember: You can permanently damage the scale and void your warranty by overloading it!

Counting Function

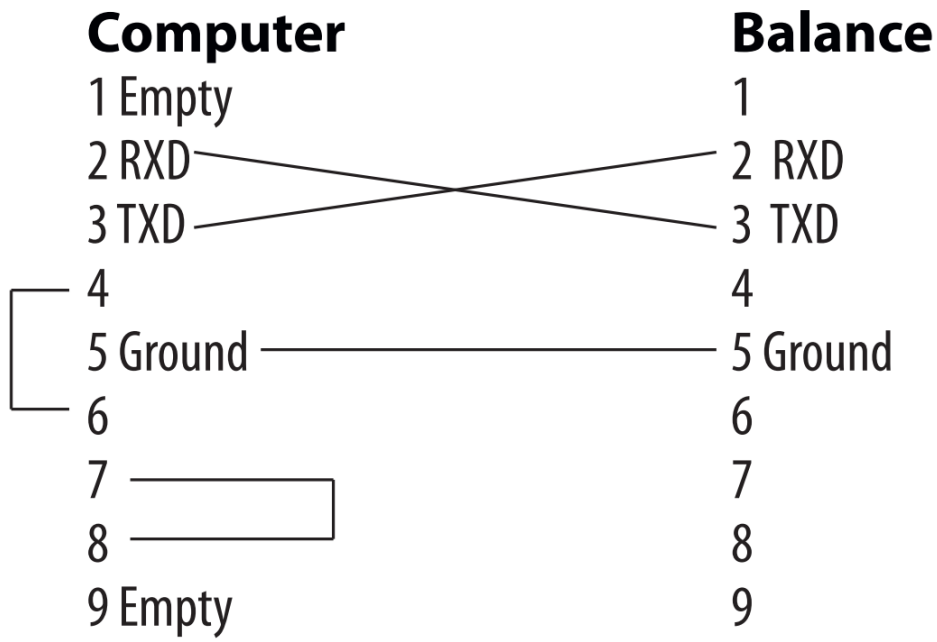
1. Press [COUNT], the balance will display “CON pocks”.
2. Place a container on the platform, then press [TARE] the balance displays “PC ADD 5″which is the preset sample size.
3. Select the sample size by pressing [MODE] . Either 5, 10, 20,30,40 or 50.
4. Put the exact quantity of samples desired on the platform and press [TARE] to confirm.
5. Place the items that you want counted onto the tray and the total number of items will show on the display.
6. Press the [UNIT] key to exit the counting function and return to normal weighing or you can press [ON/OFF] to turn the scale off.

   NOTE: If” PC Err” is displayed, it means the sample is too light to provide an accurate reading.

Backlight
Press [MODE] to turn the backlight on or off.
RS232C COMMUNICATION
Baud Rate = 9600
Data form output by ES Series Electronic Balances

ASCII:
+(-)XXX.XX UNIT <CR><LF>

WIRING METHOD



SPECIFICATIONS

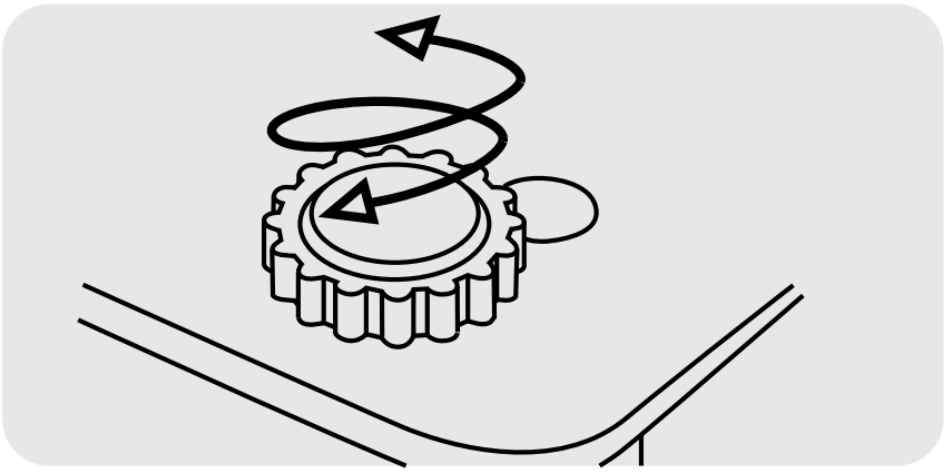
Capacity	210g x O.OOl g	**Units**	g, oz, lb, ozt, dwt, ct, pcs
Scale dimension		250mm x 170mm x 60mm	
Tray dimension		120mm diameter	
Scale Weight		2.15 kg	
Operating temperature		Optimum 10-40°C (50-104″f)	
Power Source		6 x AA batteries or 1OV AC power adaptor	
Tare range		Up to scale ‘s maximum capacity	
Zero range		± 5% of max. capacity	

www.myweigh.com

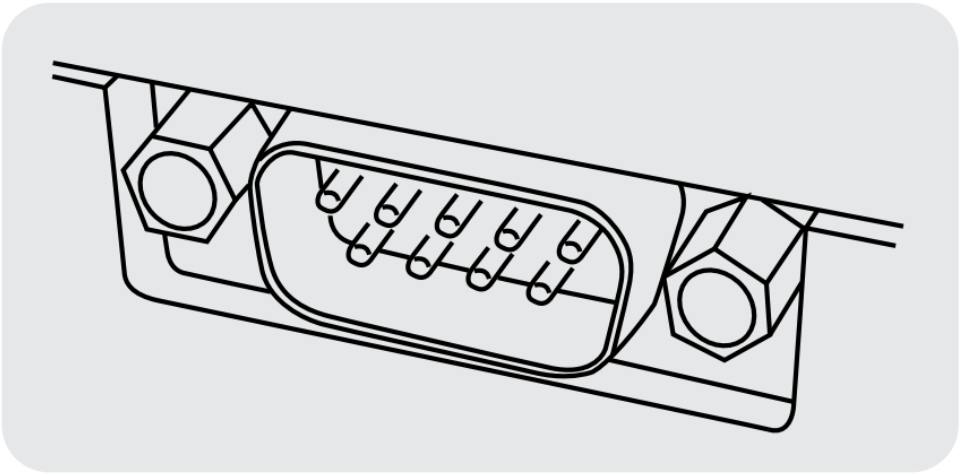
ORDER SCHEDULE

Order Button	Function	ASCII
O	Off	4FH
M	Count	4DH
C	Cal	43H
T	Tare	54H
F	Mode	46H
u	Unit	55H
p	Percent	50H

ADJUSTABLE FEET
on bottom of each corner of the scale



DATA TRANSMISSION PORT on right side of the scale



Documents / Resources

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Manuals+,