



# EXPLORER Semi-Micro Balance®

## Quick Start Guide



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### CONTROLS

Instructional Messages  
Stability (\*), Net (NET),  
Gross (G) and/or center  
of zero (>0<) indicators

Result Fields: Information  
varies by application

Touch icons to perform  
specific functions or  
access other functions



Touch to access application setup menu  
Touch to change applications  
Touch to access available libraries

Touch for information menu

Touch unit indicator to  
change weighing unit

Capacity or Status Guides:  
Vary by application

Application Buttons:  
Functions vary by application

Save to USB Buttons:  
Saving the weighing data

### OPERATION

**Weighing:** Press **Tare** to set the display to zero. Place an item on the pan. Display indicates gross weight.

**Taring:** With no load on the pan, press **Tare** to set the display to zero. Place an empty container on the pan and press **Tare**. Add material to the container and its net weight is displayed. Remove container and container's weight appears as a negative number. Press **Tare** to clear.

### MENU & SCREEN NAVIGATION

Touch **Menu** to open the menu list.

Touch and drag the **Scroll bar** to view additional items.



**Calibration:**  
Touch to view calibration options.

**User Settings:**  
Touch to view user preferences.

**Balance Setup:**  
Touch to view balance settings.

**Application Modes:**  
Touch to view application modes.

**Weighing Units:**  
Touch to view weighing units.

**GLP and GMP Data:**  
Insert user data for traceability.

**Communication:**  
COM Device Settings and Print Settings.

**Library:**  
Touch to delete library items.

**Diagnostics:**  
Touch to view diagnostics list.

**Information:**  
Touch to view list of topics.

### FEATURES



**AutoCal™ Internal Calibration**  
Automatically calibrates the balance when it senses a temperature change that can affect weighing accuracy.



**Touchless Sensors**  
Four Touchless Sensors can be assigned unique functions. Activate the sensors by moving a hand or object over it.



**Save to USB**  
Transfer data directly to a USB flash drive.



**Level Assist**  
A visual aid to guide users during the leveling process.



**Modular Design**  
Offers flexibility to mount the display above the balance, to a wall or use it remotely on the countertop.

### Optional Accessories

Accessories include Tower Assembly, Draft Shield Kit, Ethernet Interface, 2<sup>nd</sup> RS232 Interface, Density Determination Kit, Security Device, Terminal Extension Cable and Foot Switch.

### APPLICATIONS



**Weighing**  
Determine the weight of items in the selected unit of measure. Minimum Weight Indicator is also available.



**Parts Counting**  
Count samples of uniform weight. Choose Standard Counting, Check Counting, or Fill Counting.



**Percent Weighing**  
Measure the weight of a sample displayed as a percentage of a pre-established Reference Weight.



**Check Weighing**  
Compare the weight of a sample against target limits. Choose from Standard, Nominal-Weight, or Nominal-Percent.



**Dynamic Weighing**  
Weigh an unstable load. Balance takes an average of weights over a time period.



**Filling**  
Fill a container to a target weight. Progress bar displays filling status.



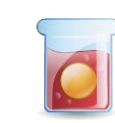
**Totalization**  
Measure cumulative weight of multiple items. Cumulative total may exceed Balance capacity.



**Formulation**  
For compounding and recipe making. 10 libraries to store 2 to 99 components.



**Differential**  
Store sample weights and calculate the difference between initial weights and final weights.



**Density Determination**  
Determine density of solids more dense than water, solids less dense than water, liquids, or porous material.



**Peak Hold**  
Capture and store highest weight in a series. Both stable and unstable weights are captured.



**SQC**  
Monitor and/or control processes to eliminate under and over filling.



**Pipette Adjustment**  
Check pipette values by weight analysis, with built-in water density table.



P/N 30218936

### 1 ASSEMBLY INSTRUCTIONS (More details, see page 7 of instruction manual)

#### 1.1 Pan Installation 1.2 Side Door Installation



##### 1.2.1 Unlock



##### 1.2.2 Align



##### 1.2.3 Clear



##### 1.2.4 Lock



#### 1.3 Front Panel Installation

##### 1.3.1 Release terminal



##### 1.3.2 Align panel



##### 1.3.3 Push to rear



##### 1.3.4 Reconnect terminal



#### 1.4 Top Door Installation

##### 1.4.1 Align

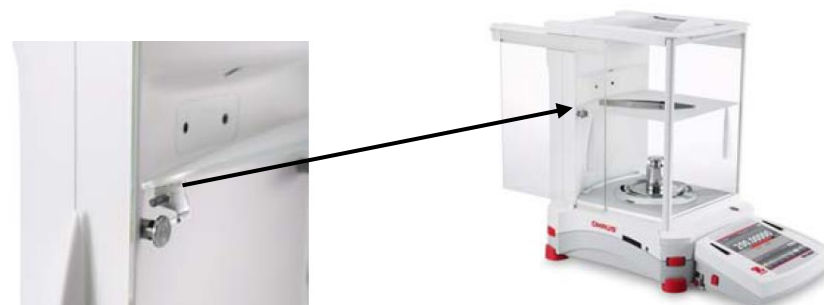


##### 1.4.2 Press Down



### 2 ASSEMBLY INSTRUCTIONS (More details, see page 10 of instruction manual)

#### 2.1 Installing the Glass Shelf



### 3 SELECTING THE LOCATION

Avoid excessive vibrations, heat sources, air current, or rapid temperature changes.



### 4 POWERING AND LEVELING THE BALANCE

Connect the AC Adapter to the wall outlet.

Connect the plug into the receptacle on the rear of the balance.

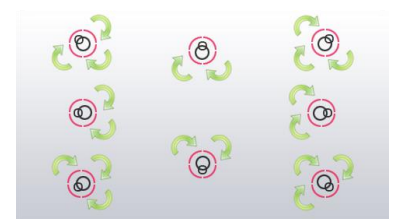
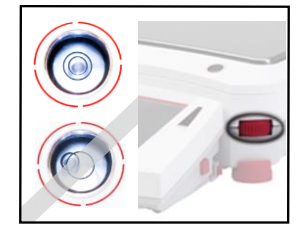
For best accuracy, allow the balance to warm up for at least 120 minutes.



To level the balance, adjust thumbwheels until level is centered. See the Level Assist screen in the Information Menu.



The Level Assist screen shows which direction to turn the thumbwheels to center the level bubble.



### 5 SAFETY PRECAUTIONS



For safe and dependable operation, please comply with the following safety precautions:

- Input voltage printed on AC Adapter and plug type must match local AC power supply.
- Make sure power cord does not pose an obstacle or tripping hazard.
- Disconnect product from power supply when cleaning.
- Do not operate product in hazardous or unstable environments.
- Do not drop loads on platform.
- Use only approved accessories and peripherals, as available.
- Operate product only under ambient conditions specified in Instruction Manual.
- Service should be performed by authorized personnel only.

### 6 ADDITIONAL FEATURE: IONIZER (EX225D/AD and EX225/AD only)



#### Static electricity

Generally, insulators such as plastics are prone to be charged with static electricity when the ambient relative humidity is below 45%RH. This may affect weighing and cause a measurement error of several milligrams. The ionizer can eliminate static electricity very effectively.

#### How to activate the Ionizer

The ionizer can be activated by either the touchless sensors (see section 5.4.9) or through the function icons by pressing the **ionizer** icon on the application home screen.

The ionizer generates bipolar ions continuously by DC corona discharge separately from positive and negative discharge electrodes and directs the ionized air onto the charged body to eliminate static electricity. The generated ions are well-balanced in polarity and can eliminate static electricity regardless of the polarity of the charged body.