

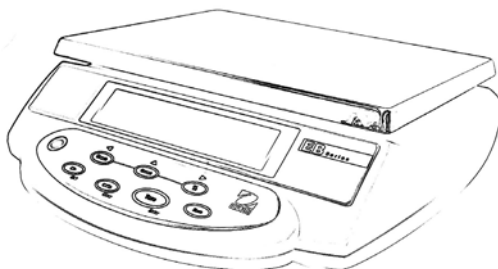


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EB Series instruction Manual



Ohaus Corporation, 19A Chapin Road, PO Box 2033, Pine Brook, NJ 07058 USA

Declaration of Conformity We, Ohaus Corporation, declare under our sole responsibility, that the scale models listed below marked with "CE" are in conformity with the directives and standards mentioned.

Declaración de Conformidad Nosotros, Ohaus Corporation, declaramos bajo responsabilidad exclusiva que los modelos de básculas indicados a continuación – con el distintivo 'CE' – están conformes con las directivas y normas citadas.

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Models/Type / Modelo/Tipo / Modèle/Type / Modell/Typ / Modello/Tipo: **EB3, EB6, EB15, EB30**

EC Marking: Marcado EC Marquage CE EC-Markierung Marcature EC	EC Directive Directiva EC Directive CE EC Richtlinie Direttiva EC	Applicable Standards Normas aplicables Normes applicables Geltende Standards Standard applicabili
	73/23/EEC Low Voltage Baja tensión Basse tension Niederspannung Bassa tensione	EN 61558-1:1997+A1:1998 EN 61558-2-6:1997
	89/336/EEC Electromagnetic compatibility Compatibilidad electromagnética Compatibilité électromagnétique Elektromagnetische Verträglichkeit Compatibilità elettromagnetica	EN61326:2002

Date: December 1, 2005



Ted Xia
President
Ohaus Corporation
Pine Brook, NJ USA



Urs Müller
General Manager
Ohaus Europe
Greifensee, Switzerland



In conformance with the European Directive 2002/96/ EC on Waste Electrical and Electronic Equipment (WEEE) this device may not be disposed of in domestic waste. This also applies to countries outside the EU, per their specific requirements.

Please dispose of this product in accordance with local regulations at the collecting point specified for electrical and electronic equipment.

If you have any questions, please contact the responsible authority or the distributor from which you purchased this device.

Should this device be passed on to other parties (for private or professional use), the content of this regulation must also be related.

Thank you for your contribution to environmental protection.



De conformidad con la directriz europea 2002/96/CE respecto al desecho de equipos eléctricos y electrónicos (WEEE, por su sigla en inglés), este dispositivo no puede ser desechado junto con las basuras domésticas. Esto también se aplica a países fuera de la Comunidad Europea, con base en sus requerimientos específicos.

Por favor disponga de este producto de acuerdo con las normas locales en el punto de recolección especificado para equipos eléctricos y electrónicos.

Si tiene alguna pregunta, sírvase consultar a la autoridad responsable o al distribuidor a quien usted compró este dispositivo.

En caso de que este dispositivo sea pasado a otra entidad o persona (para uso privado o profesional), el contenido de esta norma también aplica.

Gracias por contribuir a la protección del ambiente.



Conformément à la directive européenne 2002/96/ EC sur l'équipement électronique et électrique des déchets (WEEE), cet appareil ne peut pas être éliminé dans des déchets ménagers. Cette consigne est également valable pour les pays en dehors de l'UE, selon les conditions spécifiques aux pays.

Prière d'éliminer ce produit conformément à la réglementation locale au point de collecte spécifié pour les équipements électriques et électroniques.

Pour de plus amples informations, contactez l'autorité responsable ou le distributeur auprès duquel vous avez acheté cet appareil.

Si cet appareil change de propriétaire (pour des raisons personnelles ou professionnelles), cette consigne doit être communiquée à l'autre partie.

Nous vous remercions de votre contribution à la protection de l'environnement..



In Übereinstimmung mit der europäischen Richtlinie 2002/96/ EC über Elektro- und Elektronik-Altgeräte (Waste Electrical and Electronic Equipment - WEEE) darf dieses Gerät nicht als Hausmüll entsorgt werden. Dies gilt laut spezifischer Anforderungen auch für Länder außerhalb der EU.

Entsorgen Sie dieses Produkt bitte gemäß den örtlichen Vorschriften an der Entsorgungsstelle, die für Elektro- und Elektronikgeräte vorgegeben ist.

Falls Sie irgendwelche Fragen haben, wenden Sie sich bitte an die zuständige Behörde oder den Vertriebs Händler, von dem Sie dieses Gerät erworben haben.

Sollte dieses Gerät an Drittparteien abgegeben werden (zum privaten oder gewerblichen Gebrauch), muss der Inhalt dieser Vorschrift ebenfalls übermittelt werden.

Vielen Dank für Ihren Beitrag zum Umweltschutz.



In base alla direttiva europea WEEE 2002/96/CE sui rifiuti di apparecchiature elettriche ed elettroniche (Waste Electrical and Electronic Equipment), questo dispositivo non deve essere smaltito assieme agli altri rifiuti domestici. La direttiva è applicabile anche ai paesi non facenti parte dell'Unione Europea, in base agli specifici requisiti.

Smaltire questo prodotto conformemente alla normativa locale, portandolo presso il punto di raccolta specifico per le apparecchiature elettriche ed elettroniche.

Per eventuali altre domande, si prega di contattare l'autorità responsabile o il distributore presso il quale l'apparecchio è stato acquistato.

Qualora questo apparecchio passi ad altre persone (per uso privato o professionale), anche per queste varrà il contenuto della presente normativa.

Grazie per il contributo alla salvaguardia dell'ambiente.

Note: 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 the instruction 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 his own expense.

This Class A digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

ISO 9001 Registration

In 1994, Ohaus Corporation, USA, was awarded a certificate of registration to ISO 9001 by Bureau Veritus Quality International (BVQI), confirming that the Ohaus quality management system is compliant with the ISO 9001 standard's requirements. On May 15, 2003, Ohaus Corporation, USA, was re-registered to the ISO 9001:2000 standard.

Registro ISO 9001

En 1994, Bureau Veritus Quality International (BVQI) le otorgó a Ohaus Corporation, EE.UU., un certificado de registro ISO 9001 el cual confirma que el sistema administrativo de calidad de Ohaus cumple con los requerimientos del estándar ISO 9001. En mayo 15 del 2003, Ohaus Corporation, EE.UU., fue registrada nuevamente al estándar ISO 9001:2000.

Enregistrement ISO 9001

En 1994, le Bureau Veritus Quality International (BVQI) a octroyé la certification d'enregistrement ISO 9001 à Ohaus Corporation, États-Unis d'Amérique, confirmant que le système de gestion de la qualité Ohaus était conforme aux conditions normalisées de l'ISO 9001. Le 15 mai 2003, Ohaus Corporation, États-Unis d'Amérique, a été ré-enregistrée à la norme ISO 9001:2000.

Registrierung nach ISO 9001

Im Jahr 1994 wurde der Ohaus Corporation, USA, ein Zertifikat der Registrierung nach ISO 9001 vom Bureau Veritus Quality International (BVQI) verliehen, in dem bestätigt wird, dass das Ohaus-Qualitätsmanagementsystem den Anforderungen der Norm ISO 9001 entspricht. Am 15. Mai 2003 wurde die Ohaus Corporation, USA, gemäß der Norm ISO 9001:2000 neu registriert.

Registrazione ISO 9001

Nel 1994, Ohaus Corporation, USA, ha ricevuto il certificato di registrazione ISO 9001 da Bureau Veritus Quality International (BVQI), come conferma che il sistema di gestione della qualità Ohaus risponde alle caratteristiche standard di ISO 9001. Il 15 Maggio 2003, Ohaus Corporation, USA, è stata reregistrata per la normativa ISO 9001:2000.

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1. INTRODUCTION

This manual contains installation, operation and maintenance instructions for the EB Series Weighing Scale. Please read the manual completely before installation and operation.

1.1 Product Description

The EB Series is an economical compact bench scale that offers accuracy, durability and portability in an easy-to-use design for light industrial general weighing applications.

1.2 General Features

- Capacity models: 3kg, 6kg, 15kg, 30kg with maximum displayed resolution of 1:30,000
- Stainless steel weighing pan
- Durable plastic housing
- 1-window, backlit LCD with prominent 25mm high digits
- Fast display ≤ 2 seconds of weight and count results
- kg, g, lb and oz weighing units
- Dedicated TARE key for simple and fast operation
- Accumulation function for weight and parts count
- Application modes: Checkweighing, Count and Percent
- User-programmable weight and parts HI/LO checking mode with audible buzzer
- Adjustable filtering level for weighing under various conditions
- 80-hour Internal rechargeable battery with power-saving Auto-shut off

1.3 Safety Precautions



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

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

2. INSTALLATION

2.1 Unpacking

Unpack and verify that the following components have been included:

- Scale Unit
- Weighing Platform (plastic base with stainless steel pan)
- Instruction Manual
- AC Adapter

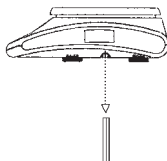
Save the packaging material. This packaging ensures the ideal protection for the storage or transport of the product.

2.2 Installing Components

Position the weighing platform pins into the through-holes on the top housing, then set the platform securely into place. Secure the in-use cover with double-sided tape as needed.

IMPORTANT:

- Before using the scale, **remove the shipping protection screw** located underneath the scale. This screw ensures protection of the load cell during transport, but will need to be removed for the scale to operate properly.



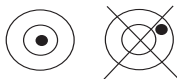
- It is recommended that the protective screw be re-installed if transporting the scale. Do not over-tighten the protective screw as it may damage the load cell. To re-install, turn the scale on and place a 500g weight on the pan, then slowly screw in the protection screw until the display shows a value between 250g to 400g.

2.3 Selecting the Location

Operate the scale on a firm, level surface. Avoid locations with rapid temperature changes, excessive air currents, vibrations, electromagnetic fields, heat or direct sunlight.

2.4 Leveling the Scale

Adjust the leveling feet until the bubble is centered in the circle of the level indicator (located on the front panel).



NOTE: Ensure that the scale is level each time its location is changed.

2.5 Connecting Power

2.5.1 AC Power

Verify that the intended AC power source matches the AC adapter rating. Connect the supplied AC adapter to the power input receptacle underneath the scale. Plug the AC adapter into a properly grounded power outlet.

2.5.2 Battery Power

The battery will begin charging with the AC adapter connected accordingly. An LED indicator below and to the right of the display shows the status of battery charging:

- Green – battery is fully charged
- Yellow – battery is partially charged and charging
- Red – battery is nearly discharged

When AC power is not available, the scale will operate on the internal rechargeable battery. The scale will automatically switch to battery operation if there is a power failure or the power cord is removed. Low battery charge is indicated by the low battery annunciator on the display (the scale will operate for approximately 10 hours more before automatically switching off).

Before using the scale for the first time, the internal rechargeable battery should be fully charged for up to 12 hours. A fully charged battery can operate the scale for approximately 80 hours independent of AC power. The scale can be operated during the charging process. The battery is protected against overcharging and the scale can remain connected to the AC power line.

NOTES:



- The battery must be recharged every 3 months if the scale is not used for a long time.
- Replace the battery if it does not charge or hold a full charge.
- Dispose of the lead acid battery according to local laws and regulations.

CAUTION



BATTERY IS TO BE REPLACED ONLY BY AN AUTHORIZED SERVICE DEALER. RISK OF EXPLOSION CAN OCCUR IF REPLACED WITH THE WRONG TYPE OR CONNECTED IMPROPERLY.

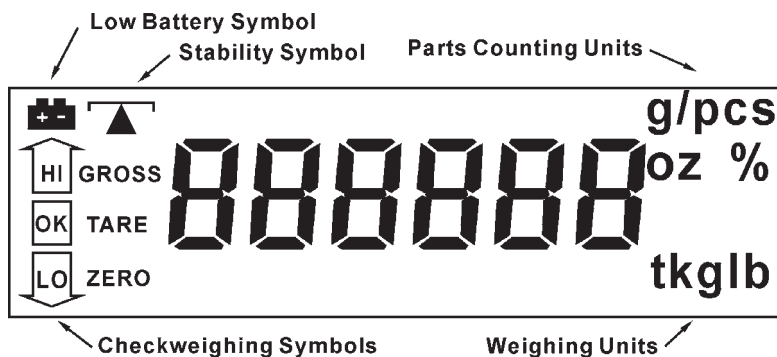
2.6 Initial Calibration

When the scale is operated for the first time, a Span Calibration is recommended to ensure accurate weighing results. Before performing the calibration, be sure to have the appropriate calibration weights.

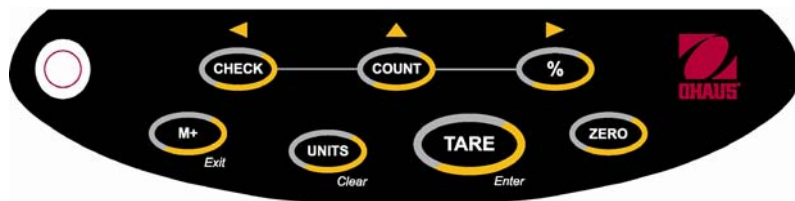
Refer to Section 6 for Span Calibration procedures.

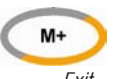
3. OVERVIEW OF CONTROLS AND FUNCTIONS

3.1 Display Symbols

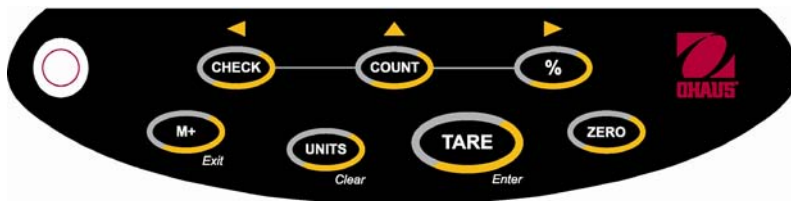


3.2 Controls and Functions



- 
 - Inputs the weight of the object on the weighing pan as a Tare value
 - *Enter* - accepts displayed parameters
- 
 - Adds the indicated weight or piece count value into Accumulation memory
 - Recalls and displays the number of weighments and total Accumulation data: weight or piece count
 - *Exit* – skips to the next parameter or exits to normal operation
- 
 - Toggles to the next weighing unit
 - *Clear*: clears the indicated input values

3.2 Controls and Functions (cont.)



- Zeros the display



- Initiates setup of Checkweigh parameters: HI and LO range weight or piece count values
- ◀ moves the active digit to the left when setting up parameter values



- Initiates setup of Counting/Sampling parameters
- ▲ increments the active digit when setting up parameter values



- Initiates setup of Percent weighing parameters
- ▶ moves the active digit to the right when setting up parameter values
- During parts counting, toggles through piece weight and piece count (in g unit, also displays total weight)

4. OPERATIONS

4.1 Switching the Unit On and Off

The power switch is located underneath the right-hand side of the scale. Push the switch to the "I" position to turn the scale on, and to the "O" position to turn the scale off. Allow 15-30 minutes for the scale to warm up before use.

NOTE: Make sure the weighing pan is empty before turning the scale on.

4.2 Manual Tare

A Tare value in memory is indicated by "TARE" on the display. Place the container on the weighing pan (ex. 100g), then press

TARE.

The weight is tared and display will show "0".

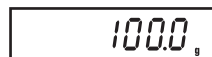


To clear the Tare value, press **TARE** with the pan empty.

4.3 Zero Operation

Center of Zero is indicated by "ZERO" on the display.

Press **ZERO**. "-----" will be displayed momentarily before the display is zeroed.



4.4 Changing Weighing Units

Press **UNITS** successively to toggle through the available weighing units.

4.5 Check-Weighing/Counting, Percent Check

Compares the weight or quantity (count) of an item against a pre-set Hi-Lo range.

To initiate entering Hi-Lo parameters, press **CHECK**. "00000.0" will be displayed (or the last value entered) with the active digit flashing.



Enter the desired "Hi" limit value (ex. 50g) by pressing ◀ or ▶ to navigate across the digits, and ▲ to increment the active digit. Press **Enter** to set the displayed value.



"00000.0" will be subsequently displayed (or the last value entered). Enter the desired "Lo" limit value (ex. 20g), then press **Enter** to set the displayed value.



When the weight or quantity of items placed on the pan is within the Hi-Lo range,

"OK" is displayed and the check-alarm will beep continuously within this range.



To check-count, press **CHECK** in Counting Mode (displayed unit is "pcs")



For Percent check, press **CHECK** in Percent Mode (displayed unit is "%")



NOTES:

- If only a Hi value was set (Lo value is "0"), the check-alarm will activate and display "OK" above this value. If only a Lo value was set (Hi value is "0"), the check-alarm will activate and display "OK" below this value.
- Weight must be more than 20 scale divisions for Check-Weighing/Counting to operate.
- Hi-Lo values are retained when the unit is turned off.
- Separate Hi-Lo values for check-weighing and counting (pcs) may be entered.
- To clear the Hi-Lo values, press **Clear** then **Enter** as the values are displayed. This effectively exits from Check-Weighing/Counting Mode also.

4.6 Sampling, Calculating Average Piece Weight (APW)

Counting Mode is indicated by "pcs" or "pc" on the display.

Place the desired sample onto the weighing pan (or into a tared container) (ex. 500g).

500.0 g

Press **COUNT** to initiate sampling. "SP 10" (or last sample sized used) will be displayed, then press **Enter**. "-----" will be displayed momentarily before the sample size piece count is displayed.

SP 10

----- g

10 pcs

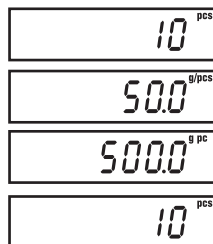
NOTES:

- To change the sample size, press ▲ successively to display: "SP 20", "SP 50", "SP 100", "SP 200", "SP 500", "SP 1000". Press **Enter** to select the displayed sample size.
- APW values are not retained when the unit is turned off.
- To exit from Counting Mode and clear the APW, press **COUNT**.

4.7 Displaying Count Data in Counting Mode

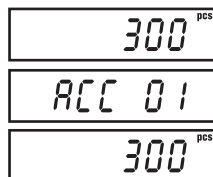
In Counting Mode, press ► successively to toggle through: Piece Count, APW and Total Weight.

NOTE: APW data will be displayed only with kg and g weighing units.



4.8 Accumulation: Weight and Quantity (Count)

Place the item to be weighed/counted on the pan (ex. 300g or 300 pcs) then press **M+**. The accumulation entry "ACC ##" (maximum 99 entries or until the capacity weight display is exceeded) is displayed momentarily before reverting to weighing/counting mode.



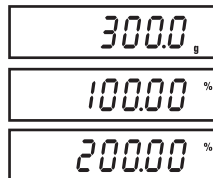
NOTES:

- The displayed weight must be stable for **M+** to register.
- Display must return to zero before the next accumulation can register.
- To recall Accumulation memory, press **M+** with the pan empty. The total no. of entries, then total weight/count value, will be displayed momentarily before reverting to weighing/counting mode.
- To clear Accumulation memory, press **Clear** during the recall sequence.
- Accumulation data is not retained when the unit is turned off.

4.9 Percent Weighing

Place the reference item on the pan (ex. 300g) then press %. "100.00%" will be displayed.

The weight of any item subsequently placed on the pan will be displayed as a percentage (ex. 600g will be displayed as 200%) of the originally established reference weight.



NOTES:

- It is normal for small weight changes to be displayed as large decimal increments in %.
- To exit Percent Mode, press **Exit**.

5. SCALE SETTINGS

- Press then release **COUNT** and **M+** at the same time to enter into the user-selectable scale settings (Setup mode).

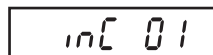
In Setup mode:

- o Press **▲** to step through available settings
- o Press **Enter** to accept the displayed setting and proceed to the next parameter
- o Press **Exit** to proceed to the next parameter without saving any changes
- Re-start the scale after changing settings in the Setup mode.

The following parameters are available (illustrated displays reflect default settings):

5.1 Scale Increment

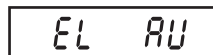
Sets the displayed scale increment (also known as readability or graduation). Selectable setup values will be model dependent and are equivalent to within 30,000 to 3,000 scale divisions.



5.2 Backlight

Sets the activation mode of the backlight.

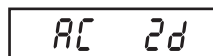
The following settings are available: AU (Auto-on with items greater than 9d placed on the pan or any key is pressed; turns off after 5 seconds of inactivity), on, off.



5.3 Zero Tracking Range

Sets the range in which the zero reading is maintained.

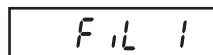
The following settings are available: 0.5d, 1d, 2d, 4d (d = scale division)



5.4 Filtering

Sets the level in which the Stable indication turns on; the higher the setting, the faster the stabilization time.

The following settings are available: 0, 1, 2, 3 (levels)

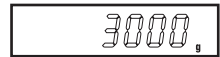


6. CALIBRATION

For best results, calibrate the scale at regular intervals. Temperature changes, gravity variations, altitude changes and abuse are few reasons why a scale may need recalibration.

When the scale is ideally positioned for operation, enter calibration and proceed as follows:

Long-press **ZERO** and **COUNT** at the same time to initiate calibration. The required calibration weight flashes on the display (ex. 3000g).



At this time, a different calibration weight value can be selected by pressing ▲.

Available selections are 1/3, 2/3 and 100% of full capacity.

Once the desired value is displayed, place the corresponding weight on the pan.

The display flashes until the actual weight is registered and the calibration process ends (the scale re-starts). At this time, remove the weight on the pan before the display count-down sequence ends.

NOTES:

- Calibration weight is displayed in grams only.
- To abort the calibration process, turn the scale off.
- If needed, the factory default calibration value can be recovered. As the

scale is turned on, press **TARE** and **COUNT** at the same time during the power-on sequence. The power-on sequence will re-cycle and the scale will reinitiate with the default calibration.

7. TROUBLESHOOTING

The following table lists common problems, possible causes and remedies. Should further problems persist, please contact your local servicing dealer.

Symptom	Possible Causes	Remedy
Scale will not turn on	AC power not connected. Battery discharged.	Connect scale to power.
Battery fails to charge fully	Battery defective or past its useful life.	Replace battery by an authorized service dealer.
Weight reading does not stabilize	Unstable environment. Interference under pan.	Ensure a stable environment. Ensure that the weighing pan is unobstructed and free to move.
Scale does not display accurately	Improper calibration.	Calibrate the scale using proper calibration weights.
E1 error code displayed	EPROM data loss.	Replace the scale.
E2 error code displayed	A/D count is not correct.	Have the load cell replaced.
E4 error code displayed	The sample weight for setting up Counting APW is too small.	Increase the weight on the pan until the resulting APW is greater than the minimum.
	The value for setting up Percent weighing is not valid.	Place a reference weight greater than 9d on the pan.
--OL-- displayed	Load exceeds scale capacity.	Reduce the load on the pan.

8. TECHNICAL DATA

Model	EB3	EB6	EB15	EB30
Capacity x Readability	3 kg x 0.0001 kg 3000 g x 0.1 g 6.6 lb x 0.0002 lb 105 x 0.005 oz	6 kg x 0.0002 kg 6000 g x 0.2 g 13 lb x 0.0005 lb 208 x 0.01 oz	15 kg x 0.0005 kg 15000 g x 0.5 g 33 lb x 0.001 lb 528 x 0.02 oz	30 kg x 0.001 kg 30000 g x 1 g 66 lb x 0.002 lb 1,056 x 0.05 oz
Maximum Displayed Resolution	1:30000	1:30000	1:30000	1:30000
Construction	Stainless steel pan, plastic housing			
Weighing Units	kg, g, lb, oz			
Application Modes	Weighing, Counting, Hi-Lo Check-weigh/count, Percent, Accumulation			
Display	1- window backlit LCD display, 25.4 mm/1" High, 6-digit, 7-segment			
Display Indicators	Stability, Center of Zero, Gross, Tare, Battery status, Hi-Ok-Lo, Units			
Hi-Lo Check Indicators	Display with Alert beeper			
Keyboard	7 Function Membrane switch: M+, Units, Zero, Tare, Check, Count, %			
Zero Range	4% of Full Scale Capacity			
Tare Range	Full Capacity by Subtraction (except EB15, up to 10kg only)			
Stabilization Time	≤ 2 seconds			
Operating Temperature	0° to 40°C			
Humidity Range	≤90% relative humidity, non-condensing			
Power	AC Adapter 12V DC / 800mA Internal rechargeable sealed lead acid battery			
Battery Life	80 hours continuous use with 12 hour recharge time			
Calibration	Automatic external with kg/g mass, factory calibration recovery			
Shipping Protection	Shipping screw to avoid damage to sensitive components			
Safe Overload Capacity	120% of capacity			
Pan Size	294 x 226 mm / 11.6" x 8.9"			
Scale Dimensions W x H x D	325 x 330.5 x 114 mm / 12.8" x 13" x 4.5"			
Shipping Dimensions W x H x D	440 x 360 x 160 mm / 17.3" x 14.2" x 6.3"			
Net Weight	4.2 kg / 9.3lb			
Shipping Weight	5.3kg / 11.7lb			
Other Features	Auto-Zero Tracking, Filtering Level			

LIMITED WARRANTY

Ohaus products are warranted against defects in materials and workmanship from the date of delivery through the duration of the warranty period. During the warranty period, Ohaus will repair, or, at its option, replace any component(s) that proves to be defective at no charge, provided that the product is returned, freight prepaid, to Ohaus.

This warranty does not apply if the product has been damaged by accident or misuse, exposed to radioactive or corrosive materials, has foreign material penetrating to the inside of the product, or as a result of service or modification by other than Ohaus. In lieu of a properly returned warranty registration card, the warranty period shall begin on the date of shipment to the authorized dealer. No other express or implied warranty is given by Ohaus Corporation. Ohaus Corporation shall not be liable for any consequential damages.

As warranty legislation differs from state to state and country to country, please contact Ohaus or your local Ohaus dealer for further details.