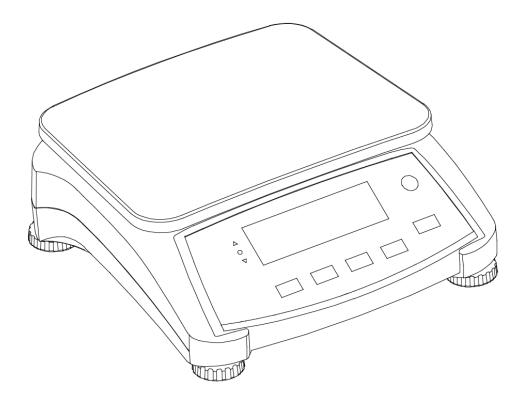


Ranger[™] 4000 Series Instruction Manual



1. INTRODUCTION

This manual contains installation, operation and maintenance instructions for the Ranger™ 4000 Series. Please read the manual completely before using the scale.

1.1 Definition of Signal Warnings and Symbols

Safety notes are marked with signal words and warning symbols. These show safety issues and warnings. Ignoring the safety notes may lead to personal injury, damage to the instrument, malfunctions and false results.

Signal Words

- **WARNING** For a hazardous situation with medium risk, possibly resulting in injuries or death if not avoided.
- **CAUTION** for a hazardous situation with low risk, resulting in damage to the device or the property or in loss of data, or injuries if not avoided.

Note (No symbol) For useful information about the product

Warning Symbols



General Hazard



Electrical Shock Hazard



Alternating Current

1.2 Safety Precautions

Please follow these safety precautions:

- Verify that the AC input voltage printed on the data label matches the local AC power supply.
- Only connect the power cord to a compatible grounded electrical outlet.
- Do not position the scale such that it is difficult to disconnect the power cord from the power receptacle.
- This scale is for indoor use only.
- Use the scale in dry locations only.
- Do not drop loads on the platform.
- Make sure that the power cord does not pose a potential obstacle or tripping hazard.
- Use only approved accessories and peripherals.
- Operate the scale only under ambient conditions specified in these instructions.
- Disconnect the scale from the power supply when cleaning.
- Do not operate the scale in hazardous or unstable environments.
- Do not immerse the scale in water or other liquids.
- Do not place the scale upside down on the platform.
- Only use weights within the scale's capacity as specified in these instructions.
- Service should be performed only by authorized personnel.

2. INSTALLATION

2.1 Package Contents

- ScalePan
- Power Cord
- Instruction Manual / CD
- Sub-platform
- Weigh Below Hook
- Warranty Card

2.2 Installing Components

Install the sub-platform and metal pan as shown below. Press to lock the sub-platform into place.

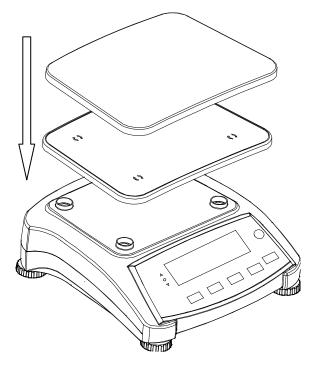


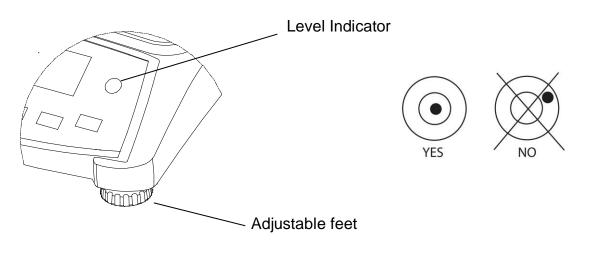
Figure 2-1. Installing sub-platform and metal pan

2.3 Selecting the Location

Use the scale on a firm, steady surface. Avoid locations with excessive air current, vibrations, heat sources or rapid temperature changes. Allow sufficient space around the scale.

2.4 Leveling the Equipment

The Ranger Series has a level indicator as a reminder that the scale should be leveled for accurate weighing. There is a level bubble in a small round window on the front of the scale. To level the scale, adjust the feet so the bubble is centered in the circle. Be sure the equipment is level each time its location is changed.





AC power is used to power the scale when battery power is not needed. First, connect the AC power cord (supplied) to the power input receptacle then connect the AC plug to an electrical outlet.



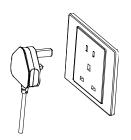


Figure 2-3A. Connect the power plug to the input receptacle on the back of scale.

Figure 2-3B. Connect AC power plug to the proper AC supply.

2.5.1 Battery Power:

The scale can be used on AC power immediately. Allow the battery to charge for 12 hours before using the scale on battery power. The Scale will automatically switch to battery operation if there is a power failure or the power cord is removed. With AC power, the scale is constantly charging, so the battery charge indicator (see item 10 in table 3-2) will remain lit. The scale can be operated during charging, and the battery is protected against overcharging.

For maximum operating time, the battery should be charged at room temperature.

During battery operation, the battery symbol indicates the battery charging status. When charging, the symbol will blink slowly and when fully charged the symbol will be turned off.

TABLE 2-1		
Symbol	Charge level	
	Battery in use: Symbol displayed	

Notes:

When battery symbol blinks fast, approximately 30 minutes working time is left.

When [lo.bat] is displayed, the scale will shut off.

Charging the scale must be performed in a dry environment.



CAUTION: Battery is to be replaced only by an authorized Ohaus service dealer. Risk of explosion can occur if the rechargeable battery is replaced with the wrong type or if it is not properly connected. Dispose of the lead acid battery according to local laws and regulations.

3. OPERATION 3.1 Controls

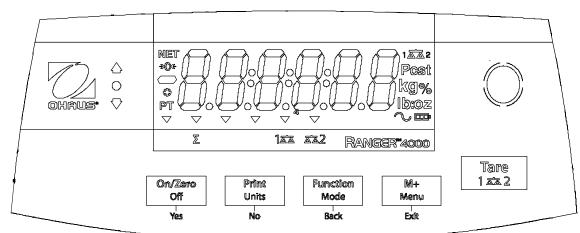


Figure 3-1. Ranger 4000 Control Panel with LCD display

Button	On/Zero Off Yes	Print Units No	Function Mode Back	M+ Menu Exit	Tare 1 æz 2
Primary Function	On/Zero	Print	Function	M+	Tare
(Short Press)	Turns the scale on If scale is On, sets Zero	Sends the current value to the selected COM ports if AUTOPRINT is set to Off.	Initiates an application mode.	Accumulates the weight or displays the accumulated information at 0 load.	Enter/clear a tare value. Clears the accumulation when the accumulation information is displayed.
Secondary Function (Long Press)	Off Turns the scale Off.	Units Changes the weighing unit.	Mode Allows changing the application mode.	Menu Enter the User menu.	Switch between scale 1 and scale 2
Menu Function (Short Press)	Yes Accepts the current setting on the display.	No Advances to the next menu or menu item. Rejects the current setting on the display and advances to the next available setting.	Back Moves Back to previous menu item.	Exit Exits the User menu. Aborts the calibration in progress.	

TABLE 3-1. Button Functions

Notes: ¹ Short Press: Press less than 1 second.

²Long Press: Press and hold for more than 2 seconds.

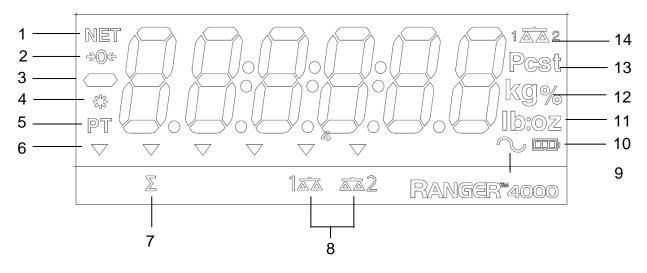


Figure 3-1. LED Display

TABLE 3-2. LED Symbols					
ltem	Description	ltem	Description		
1	NET symbol	8	Base symbol		
2	Center of Zero symbol	9	Dynamic symbol		
3	Negative symbol	10	Battery charge symbol		
4	Stable weight symbol	11	Pound, Ounce, Pound:Ounce symbols		
5	Preset Tare, Tare symbols	12	Kilogram, gram symbols		
6	Pointer symbols	13	Pieces symbol		
7	Accumulation symbol	14	Percent symbol		

TABLE 3-2. LED Symbols

The colored LED indicators on the left side of the control panel are used in Check mode (section 3.6) and will light up according to the following rules:

 \bigcirc (Red) Loads > Upper limit

○ (Green) Loads Lower limit and Upper limit

 \bigtriangledown (Yellow) Loads < Lower limit

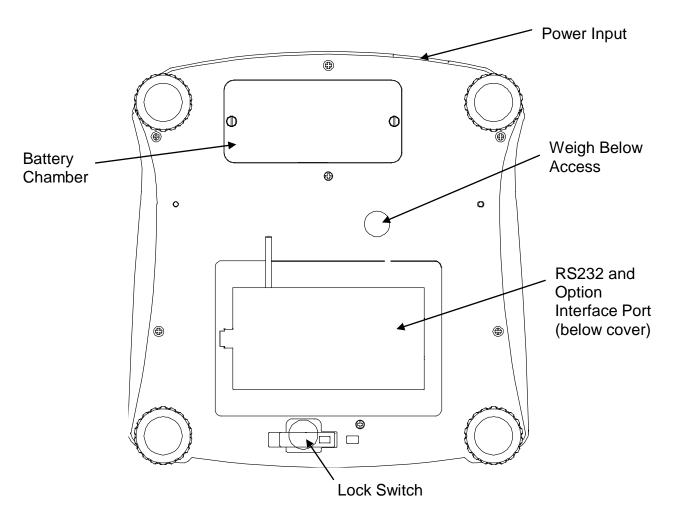


Figure 3-4. Below view of Ranger 4000

3.2 Turning Scale On/Off

To turn the scale on, press and hold the **On/Zero Off** button for 1 second. The scale performs a display test, momentarily displays the software version, and then enters the active weighing mode.

To turn the scale off, press and hold the **On/Zero Off** button until OFF is displayed.

3.3 Weigh Mode

This mode is the factory default setting.

- 1. If needed, press and hold **Mode** until [wWeiGH] (Weigh) is displayed.
- 2. If required, place an empty container on the pan and press Tare.
- 3.Add sample to the pan or container. The display shows the weight of the sample.

3.4 Percent Mode

This mode measures the weight of a sample as a percentage of a reference weight.

- 1. If required place an empty container on the pan and press **Tare**.
- 2. Press and hold **Mode** until [Percent] is displayed. [Clr.ref] (clear reference) will then display.

If no reference weight exists, the scale will display [Put.ref], proceed to step 5.

3. Press No to use the stored reference weight and proceed to step 6.

- 4. Press Yes to establish a new reference. Scale will now display [Put.ref].
- 5. Add the desired reference material to the pan or container. Press **Yes** to store the reference weight. The display shows 100%.
- 6. Replace the reference material with the sample material. The display shows the percentage of the sample compared to reference weight.
- To clear the stored reference press and hold Mode until [Percent] is displayed. Press Yes when [Clr.ref] is displayed.

Note: Press Function to view the current reference weight.

3.5 Counting Mode

This mode counts large numbers of items based on the weight of a reference count.

- 1. Place an empty container on the pan and press Tare.
- 2. Press and hold **Mode** until [Count] (Count) is displayed. [CLr.PwW] (Clear Average Piece Weight, APW) will then display.

If no APW exists, the scale will display [Put.10], proceed to step 5.

- 3. Press No to use the stored APW. Proceed to step 7.
- 4. Press **Yes** to establish an APW.
- 5. The scale will then display the stored sample size, i.e. [Put 10]. Press **No** or **Back** to toggle the choices (5, 10, 20, 50 or 100).
- 6. Put the indicated number of pieces on the pan then press **Yes** to calculate the APW. The display shows the piece count.
- 7. Add additional pieces until the desired count is reached.
- 8. To clear the stored APW press and hold **Mode** until [*Count*] is displayed. Press **Yes** when [*Clr.pwW*] is displayed.

Note: Press **Function** to view the current APW.

3.6 Check Mode

Use this mode to compare the Weight, Percent or Count of items to a target weight range. The scale supports positive, negative and zero check weighing. Refer to section 4.5 to set the desired Check sub-mode.

3.6.1 Check Weighing

Set Checkweigh to Weight in the Mode menu. Use this mode to compare the weight of items to a target weight range.

- 1. Press and hold **Mode** until [CHeCk] (Check) is displayed. [CL.llmM] (clear check limits) will then display.
- 2. Press No to use the stored check limits and proceed to step 5.
- 3. Press **Yes** to establish new check limits. The scale will then display [Set. Lo]. Press **Yes** to view the "Low" limit value. Press **Yes** to accept or **No** to edit the "Low" limit value. The

stored value then displays with the first digit highlighted [200.000 kg]. Repeatedly press **No** until the desired number appears. Press **Yes** to accept and highlight the next digit.

Repeat until all the digits are correct. Press **Yes** to accept the "low" limit value, [Set. Hi] will be displayed.

Ranger™ 4000 Series

- 4. Repeat the same procedure to accept or edit the "high" value.
- 5. If required, place an empty container on the pan and press Tare.
- 6. Place sample material on the pan or in the container. If the sample weight is under the target weight range, the yellow LED will light. If the sample is within the target weight range, the green LED will light. If the sample is over the target weight range, the red LED will light.

Note: Press Function to view the low and high check limits.

3.6.2 Check Percent

Set Checkweigh to Percent in the Mode menu. Use this mode to compare the percentage of items to a target percent range.

- 1. Press and hold **Mode** until [CHeCk] (Check) is displayed. [CLr.ref] (clear reference) will then display. If no reference weight exists, the scale will display [Put.ref], proceed to step 4.
- 2. Press No to use the stored reference weight and proceed to step 5.
- 3. Press Yes to establish a new reference. Scale will now display [Put.ref].
- 4. Add the desired reference material to the pan or container. Press **Yes** to store the reference weight.
- 5. The scale will display [CL.llmM] (clear Check limits).
- 6. Press No to use the stored check limits and proceed to step 9.
- Press Yes to establish new check limits. The scale will then display [Set. Lo]. Press Yes to view the "Low" limit value. Press Yes to accept or No to edit the "Low" limit value. The

stored value then displays with the first digit highlighted [000.000 %]. Repeatedly press **No** until the desired number appears. Press **Yes** to accept and highlight the next digit.

Repeat until all the digits are correct. Press Yes to accept the "low" limit value, [Set. Hi] will be displayed.

- 8. Repeat the same procedure to accept or edit the "high" value.
- 9. If required, place an empty container on the pan and press Tare.
- 10.Place sample material on the pan or in the container. If the sample weight is under the target percentage range, the yellow LED will light. If the sample is within the target percentage range, the green LED will light. If the sample is over the target percentage range, the red LED will light.

Note: Press Function to view the low and high check limits.

3.6.3 Check Count

Set Checkweigh to Count in the Mode menu. Use this mode to compare the quantity of items to a target quantity range.

1. Press and hold **Mode** until [CHeCk] (Check) is displayed. [CLr.PwW] (clear APW) will then display.

If no APW exists, the scale will display [Put.10], proceed to step 5.

- 2. Press $\ensuremath{\text{No}}$ to use the stored APW and proceed to step 5.
- Press Yes to establish a new APW. Scale will now display [Put.10]. Press No or Back to toggle the choices (5, 10, 20, 50 or 100).
- 4. Put the indicated number of pieces on the pan then press **Yes** to calculate the APW.

- 5. The scale will display [CL.ImM] (clear Check limits).
- 6. Press No to use the stored check limits and proceed to step 9.
- 7. Press Yes to establish new check limits. The scale will then display [Set. Lo]. Press Yes to view the "Low" limit value. Press Yes to accept or No to edit the "Low" limit value. The stored value then displays with the first digit highlighted [000000 Pcs]. Repeatedly press No until the desired number appears. Press Yes to accept and highlight the next digit.

Repeat until all the digits are correct. Press Yes to accept the "low" limit value, [Set. Hi] will be displayed.

- 8. Repeat the same procedure to accept or edit the "high" value.
- 9. If required, place an empty container on the pan and press Tare.
- 10.Place sample material on the pan or in the container. If the sample weight is under the target quantity range, the yellow LED will light. If the sample is within the target quantity range, the green LED will light. If the sample is over the target quantity range, the red LED will light.

Note: Press Function to view the low and high check limits.

Positive Check

Positive check is used to determine when the material added to the scale is within the target range. In this case the UNDER and OVER limits must be positive values. (The OVER limit must be greater than the UNDER limit.)

Add material to the scale until it is within the ACCEPT (green) range.

Negative Check

Negative check is used to determine when the material removed from the scale is within the target range. In this case the UNDER and OVER limits are both negative values.

(The UNDER limit must be greater than the OVER limit.)

Place the item to be weighed on the scale and press TARE.

Remove a portion of the item until it is within the ACCEPT range.

Zero Check

Zero check is used when comparing subsequent samples to an initial reference sample. In this case, the UNDER limit must be a negative value and the OVER limit must be a positive value. Place the reference item on the scale and press **TARE**. Remove the reference sample and place the item to be compared on the scale to determine if it is within the ACCEPT range.

3.7 Dynamic Mode

This mode allows the user to weigh an unstable load such as a moving animal. The weight is held on the display until reset. Manual, semi-automatic and automatic start/reset methods are available.

Manual operation (DYNAMIC is set to MANUAL in the Mode menu):

- 1. Press and hold **Mode** until [dYNAmM] (Dynamic) is displayed. [rEAdY] (Ready) will then be displayed.
- 2. Place the load on the pan and press the **Function** key to start measurement.

During the average period, the countdown timer decreases in one second increments.

3. After completed countdown, the average weight will be displayed. The tilde symbol will blink indicating that the current weight is being held.

- 4. Manually reset the countdown timer by pressing the **Function** key. [rEAdY] (Ready) will then be displayed.
- **Note**: If Set0 has been selected, the countdown timer is not displayed. The first weight larger than 5d will be displayed and held.

Semi-automatic operation (DYNAMIC is set to SEMI in the Mode menu):

- 1. Press and hold **Mode** until [dYNAmM] (Dynamic) is displayed. [rEAdY] (Ready) will then be displayed.
- Place the load on the pan to start measurement. During the average period, the countdown timer decreases in one second increments.
- 3. After completed countdown, the average weight will be displayed. The tilde symbol will blink indicating that the current weight is being held.
- 4. Manually reset the countdown timer by pressing the **Function** key. [*r*EAdY] (Ready) will then be displayed.
- **Note**: If Set0 has been selected, the countdown timer is not displayed. The first weight larger than 5d will be displayed and held.

Automatic operation (DYNAMIC is set to AUTOMATIC in the Mode menu):

- 1. Press and hold **Mode** until [dYNAmM] (Dynamic) is displayed. [rEAdY] (Ready) will then be displayed.
- 2. Place the load on the pan to start measurement.

During the average period, the countdown timer decreases in one second increments.

- 3. After completed countdown, the average weight will be displayed. The tilde symbol will blink indicating that the current weight is being held.
- 4. Remove the load and the display will reset after 10 seconds, [rEAdY] (Ready) will then be displayed.
- **Notes**: If Set0 has been selected, the countdown timer is not displayed. The first weight larger than 5d will be displayed and held. Alternatively, the display may be manually reset by pressing the **Function** key.

3.8 Accumulation and Statistics

The Accumulation feature enables manual or automatic totalizing of displayed values. Statistical data is stored in memory for review and printing. Accumulation works together with each application mode except Dynamic.

3.8.1 Accumulating Displayed Values

With ACCUMULATE set to MANUAL, place the item on the scale and press the **M+** key to add the weight to accumulation data. The icon will keep flashing until the weight is removed. With ACCUMULATE set to AUTO, place the item on the scale. The displayed value is accumulated automatically. The icon will keep flashing until the weight is removed.

3.8.2 Viewing and Clearing Statistical DataWhen the pan is cleared, press the **M+** key to display the statistical information. To clear the accumulation data press the **Tare** key while the

statistical information is displayed. The display shows [Clr.aCC]. Press the **Yes** key to clear the stored data and return to current mode.

Notes: The item must be removed from the pan before the next item can be accumulated. Only stable weights are stored to accumulation data. Changing the mode will clear the accumulation data.

Example:

SELUP In weighing mode; sub menu ACCUmM setting, select mMaNU: If required, place an empty container on the pan and press Tare. Step i: Put the weight (0.04 kg) on the pan and press M+ key. The Σ icon indicator will keep flashing until the weight is removed. Step ii: Remove the weight from the pan. Put another 88 weight (0.03 kg) and press **M+** key: Step iii: Remove the weight from the pan. Π C Step iv: Press **M+** key to display the statistical information: RANGER^{*} EOEAL 10 78X Step v: If required, follow section 3.8.2 to clear the accumulation data.

4. MENU SETTINGS

The User Menu allows the customizing of scale settings.

Note: Additional Sub-Menus may be available if Interface Options are installed. See Interface User Manual for the additional setting information.

4.1 Menu Navigation

User Menu:

Menu:	C.A.L	S.E.t.U.P	r.E.A.d	M.O.d.E	\Rightarrow
Menu Items:	Span Lin GEO End	Reset Pwr.Un Zero A.Tare Bp.Sig Bp.Key Accum End	Reset Stable Filter AZT Light Sleep ¹ A.Off End	Reset Weigh Percnt Count Check Dynam End	

$\stackrel{\frown}{=}$	U.n.i.t	P.r.i.n.t.1	С.О.М.1	L.O.C.k	E.n.d
	Reset	Reset	Reset	L.Cal	
	kg	Stable	Baud	L.Setup	
Menu	g	A.Print	Parity	L.Read	
Items:	lb	Contnt	Stop	L.Mode	
	oz	Layout	Handsh	L.Unit	
	lb:oz	Data.Tr	Alt.Cm	L.Print	
	End	End	End	L.COM	
				End	

Notes:

Some modes/units may not be available in all models. ¹This menu item is only used in models with LED display. When LEGAL FOR TRADE is set to ON (Lock Switch in locked position), the menu settings are affected as follows:

Calibration (C.A.L) menu is not accessible.

Zero Range setting is locked at 2%. Stable Range setting is locked at 1d. Auto-Zero Tracking setting is locked at 0.5d. Units are locked at their current settings. Stable Only is locked On. Auto Print/ Continuous is disabled. Lb:oz is locked Off.

Summary of button navigation functions in menu mode:

- -- Yes Allows entry into the displayed menu.
 - Accepts the displayed setting and advances to the next item.
- -- No Skips by the displayed menu.
 - Rejects the displayed setting or menu item and advances to the next available item.
- -- Back Moves backwards through the upper and middle level menus.
 - Backs out of a list of selectable items to the previous middle level menu.
- -- Exit Exits from menu directly to the active weighing mode.

For menu items with numeric settings such as Capacity, the current setting is displayed with all digits flashing. Press the **No** button to begin editing. The first digit is displayed flashing.

Press the No button to increment the digit or press the Yes button to accept the digit and move to the next digit.

Repeat this process for all digits.

Press the **Yes** button when the last digit has been set.

The new setting is displayed with all digits flashing. Press the **Yes** button to accept the setting or press the **No** button to resume editing.

This method also applies to setting Checkweigh under and over targets.

For End menu items, pressing the Yes button advances to the next menu, while pressing the **No** button returns to the top of the current menu.

4.2 Calibration Menu

Enter this menu to perform calibrations.

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 as listed in table 4-1. Ensure that the LFT switch/calibration lock is set to unlocked position. See figure 5-1.

Or adjust the GEO setting according to your location (see table 4-2).

Procedure:

Press and hold **Menu** until [mMeNu] (Menu) is displayed. When the button is released, the display

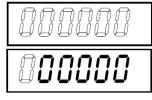
will show [CAL]. Press Yes to accept. [SpaN] will then be shown. Press Yes to begin the span

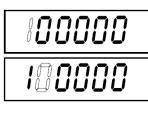
calibration. [okg] will be displayed. Press Yes to accept. [-C-] will be displayed while zero reading is stored. Next, the display shows the calibration weight value. Place the specified calibration mass on the pan. Press Yes to accept the weight or No to select an alternate weight.

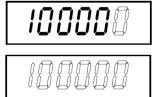
[-C-] will be displayed while the reading is stored. The display will show [done] if the calibration was successful. The scale returns to the previous application mode and is ready for use.

 IABLE 4-1			
Required Span Calibration Mass (sold separately)			
Max	Mass ¹	Max	Mass ¹
3000g	3kg / 6lb	15000g	15kg / 30lb
6000g	6kg / 15lb	30000g	30kg / 60lb

Note: ¹ Pound masses are used when calibrating in the lb unit.







Span:	Perform
Linearity:	Perform
Geographic Adjustment: End Calibration:	Set 0… 12 …31* Exit menu

*Bold always represents factory default value.

Span [SpaN]

Initiates a span calibration procedure (zero and span)

Lin [נאנו]

Initiates a linearity calibration procedure (zero, mid-point and span).

GEO [GEO]

Geographical Adjustment Factor (GEO) is used to adjust the calibration based on the current location. Settings from 0 to 31 are available with 12 being the default. Refer to table 4-2 to determine the GEO factor that corresponds to your location.

End Cal [End]

Advance to the next menu or return to the top of the current menu.

4.3 Setup Menu

Enter this menu to set scale parameters.

Reset:	no, yes
Power on unit:	auto, kg, g, lb, oz, lb:oz
Auto Tare:	off, on, on-acc
Zero Range:	2%, 10%
Beeper Signal:	off, accept, under, over, under-over
Beeper Key:	off, on
Accumulation:	off, auto, manual

Reset [reset]

Reset the Setup menu to factory defaults.

- NO = not reset
- YES = reset

Power on unit [pwWr.UN]

Set the unit of measure displayed at startup.

- AUTO = last unit in use when turned off
- kg = kilograms
- g = grams
- lb = pounds
- oz = ounces
- lb:oz = pound ounces

Zero Range [ZErO]

Set the percentage of scale capacity that may be zeroed.

2% = zero up to 2 percent of capacity

10% = zero up to 10 percent of capacity

Auto Tare [A.tArE]

Set the automatic tare functionality.

- OFF = Automatic Tare is disabled
- ON = the first stable gross weight is tared

ON-ACC = stable gross loads within the accept limits are tared (in Check weighing mode)

Beeper Signal [Bp.slG]

Set how the beeper responds in Check Weighing mode.

- OFF = the beeper is disabled
- ACCEPT = the beeper will sound when the weight is within the Accept range.
- UNDER = the beeper will sound when the weight is below the Under setting.

OVER-

- UNDER = the beeper will sound when the weight is above the Over setting.
- OVER = the beeper will sound when the weight is below the Under setting or above the Over setting.

Beeper Key [BP.key]

Set whether the beeper sounds when a button is pressed.

OFF = no sound ON = sound

Accumulation [aCCUmM]

Set the accumulation functionality.

- OFF = accumulation disabled
- AUTO = automatic accumulation

MAN = manual accumulation

End Setup [End]

Advance to the next menu or return to the top of the current menu.

4.4 Readout Menu

Enter this menu to set user preferences. The LCD and LED displays will have different menu items or settings based on the functionality.

Reset:	no , yes
Stable Range:	0.5, 1 , 2, 5
Filter:	low, medium , high
Auto-Zero	
Tracking:	off, 0.5 , 1, 3
Light (LCD):	off, on, auto
(LED):	low, medium , high
Sleep:	off, on
Auto off:	off , 1, 5, 10
End Readout:	Exit menu

Reset the Read menu to factory defaults.

NO = not reset

YES = reset

Stable Range [Stable]

Set the amount the reading can vary while the stability symbol remains on.

- 0.5d = 0.5 scale division
- 1d = 1 scale division
- 2d = 2 scale division
- 5d = 5 scale division

Filter [FILtEr]

Set the amount of signal filtering.

- LOW = less stability, faster stabilization time
- MED = normal stability, stabilization time
- HI = greater stability, slower stabilization time

AZT [AZt]

Set the automatic zero tracking functionality.

- OFF = disabled
- 0.5d = the display will maintain zero until a change of 0.5 divisions per second has been exceeded.
- 1d = the display will maintain zero until a change of 1 divisions per second has been exceeded.
- 3d = the display will maintain zero until a change of 3 divisions per second has been exceeded.

Light [LIGHt]

LCD models:

Sets backlight functionality.

OFF = always off

ON = always on

AUTO = turns on when a button is pressed or the displayed weight changes.

LED models:

Set the light intensity.

- LO = low light intensity
- MED = medium light intensity
- HI = high light intensity

Sleep [SLEEP]

Set the display shut off time.

- OFF = disabled (display will stay on until power off)
- ON = display will turn off in one minute in the absence of key or weight action

Auto off [A.OFF]

Set the automatic shut off functionality.

OFF = disabled

- 1 = powers off after 1 minute of no activity
- 5 = powers off after 5 minute of no activity
- 10 = powers off after 10 minute of no activity

End Readout [End]

Advance to the next menu or return to the top of the current menu.

4.5 Mode Menu

This menu activates modes so they will be available for use with the Mode button.

Reset:	no, yes
Weigh:	off, on
Percent:	off, on
Count:	off, on
Check:	off, weigh, percnt, count
Dynamic:	off, man, semi, auto
Dynamic:	off, man , semi, auto
End Mode:	Exit menu

Reset [reset]

Reset the Mode menu to factory defaults.

NO = not reset YES = reset

Weigh [wWEIGH]

Set the status.

OFF = disabled ON = enabled

Percent [PerCNt]

Set the status. OFF = disabled ON = enabled

Count [COUNt]

Set the status. OFF = disabled ON = enabled

Check [CHECk]

Set the sub-mode OFF = disabled WEIGH = weight mode PERCNT = percent mode COUTN = count mode

Dynamic [DYNAmM]

Set the status.

OFF	= disabled
MAN	= averaging and resetting are initiated manually
SEMI	= averaging is automatically initiated
	resetting is manually initiated
AUTO	= averaging and resetting are automatically initiated

End Mode [End]

Advance to the next menu or return to the top of the current menu.

4.6 Unit Menu

This menu activates units so they will be accessible with the **Units** button. The units in the menu must be turned "on" to be active.

Note: Available units vary by model and local regulations.

4.7 Print1 Menu

Enter this menu to set printing parameters. Default settings are **bold**. **Note:** The Print2 menu is only displayed if a second interface is installed.

Reset:	no, yes
Stable Only:	off, on
Auto Print:	off
	on stable
	interval
	continuous
	accept
Content:	Result (-> off, on)
	Gross (-> off , on)
	Net (-> off , on)
	Tare (-> off , on)
	Header (-> off, on)
	Footer (-> off, on)
	Mode (-> off , on)
	Unit (-> off, on)
	Info (-> off , on)
	Accu (-> off, result, all)
Layout:	Format (-> S ,M)
	Feed (->Line, 4 Lines, form)
Data Transfer:	off, on
End Print:	Exit menu

Reset [reset]

Reset the Print menu to factory defaults.

NO = no reset YES = reset

Stable Only [Stable]

Set the printing criteria.

- OFF = values are printed immediately
- ON = values are only printed when the stability criteria are met

Auto Print [A.Print]

Set the automatic printing functionality.

OFF	= disabled
ON.STAB	= printing occurs each time the stability criteria are met
INTER	= printing occurs at the defined interval
ACCEPT	= printing occurs continuously
CONT	= printing occurs each time the display is within the Checkweigh accept

range and stability criteria are met.

When ON.STAB is selected, set the condition for printing, where:

= printing occurs when the load is stable and greater than zero

LOAD.ZR = printing occurs when any load is stable and equal to or greater than zero.

When INTER is selected, set the Print Interval.

1 to 3600 (seconds)

Content [CONtNt]

LOAD

Define the content of the printed data.

Result

Set the status.

OFF = disabled

ON = the displayed reading is printed

Gross

Set the status.

OFF = disabled

ON = the gross weight is printed

Net

Set the status.

OFF = disabled ON = the net weight is printed

Tare

Set the status.

OFF = disabled ON = the Tare weight is printed

Header

Set the status.

OFF = disabled

ON = the Header is printed

Note: See section 7.3.1 for how to enter Header line

Footer

Set the status.

OFF = disabled

ON = the Footer is printed

Note: See section 7.3.1 for how to enter Footer line

Mode

Set the status.

OFF = disabled

ON = the Mode is printed

Unit

Set the status.

OFF = disabled ON = the Unit is printed

Info

Set the status.

OFF = disabled

ON = the reference information is printed

Accu

Set the status.	
OFF	= disabled
RESULT	= the Accumulation result is printed
ALL	= all the Accumulation data is printed

Layout [layOUt]

Set the format of the data output to a printer or computer.

Format

Set the printing form	nat.
	= a multi-line (single column style) printout is generated.= a single line printout is generated.

Feed

Set the paper feed.

ie paper ieeur	
LINE	= move a paper up one line after printing
4LF	= move a paper up four lines after printing
FORM	= a form feed is appended to the printout

Data Transfer [data.tr]

Output weighing results directly to a PC application.

OFF = disabled

ON = enabled

Windows XP Setup:

- 1. Click Start Menu in Windows XP and click Settings -> open Control Panel.
- 2. Double click **Accessibility Options** in Control Panel.
- 3. Select the General tab.
- 4. Check **Use Serial Keys**, and click the **Settings** button.
- 5. Select the Serial Port, set the Baud rate to 9600 and click OK.
- 6. Close the Control Panel.

7. Run Excel to open one blank sheet. Focus the cursor on one item. At this time, if scale sends data to the PC through the RS232 port, the data will be put into the cell, and the cursor will automatically move to the next vertical cell.

Notes:

For Windows 7 setup, contact Ohaus.

If the weighing value is a negative number, set the target cell in TEXT format. Otherwise, Excel will not distinguish it as a negative number.

Please do not use this function during continuous printing.

End Print [End]

Advance to the next menu or return to the top of the current menu.

4.8 COM1 Menu

Enter this menu to define communication parameters.

Ranger[™] 4000 Series

Reset:	no, yes
Baud Rate:	300 9600 19200
Parity:	7 even, 7 odd, 7 none, 8 none
Stop bit:	1, 2
Handshake:	none, On-Off
Alternate command:	Print (A P Z), Tare (A T Z), Zero (A Z)
End COM:	Exit menu

Note: The COM2 menu is only displayed if a second interface is installed.

Reset [reset]

Reset the COM menu to factory defaults.

NO = no reset YES = reset

Baud Rate [BAUD]

Set the baud rate.

300	= 300 bps
600	= 600 bps
1200	= 1200 bps
2400	= 2400 bps
4800	= 4800 bps
9600	= 9600 bps
19200	= 19200 bps

Parity [paritY]

Set the data bits and parity.

7 EVEN = 7 data bits, even parity
7 ODD = 7 data bits, odd parity
7 NONE = 7 data bits, no parity
8 NONE = 8 data bits, no parity

Stop bit [stOP]

Set the number of stop bits.

- 1 = 1 stop bits
- 2 = 2 stop bits

Handshake [H.shake]

Set the flow control method. Hardware handshaking is only available for COM1 menu.

NONE = no handshaking

ON-OFF = XON/XOFF software handshaking

Alternate command [Alt.CmM]

Define command character for the Print, Tare and Zero commands

Ranger[™] 4000 Series

Print

Set the alternate command character for Print A to Z.

Tare

Set the alternate command character for Tare

A to Z.

Zero

Set the alternate command character for Zero. A to Z.

End COM1, End COM2 [End]

Advance to the next menu or return to the top of the current menu.

4.9 Lock Menu

The Lock menu is a software controlled option which can lock menu settings to prevent tampering.

Reset: Lock Cal: Lock Setup: Lock Read: Lock Mode: Lock Unit: Lock Print: Lock COM:	no, yes off, on off, on off, on off, on off, on off, on off, on
Lock COM: End Menu Lock:	off , on Exit menu

Reset [reset]

Reset the Lock menu to factory defaults.

NO = no reset YES = reset

Lock Cal [l.CAL]

Set the status.

OFF= Calibration menu is not lockedON= Calibration menu is locked

Lock Setup

Set the status.

- OFF = Setup menu is not locked
- ON = Setup menu is locked

Lock Read

Set the status.

OFF = Readout menu is not locked ON = Readout menu is locked

Lock Mode [l.mMod]

Set the status.

OFF = Mode menu is not locked ON = Mode menu is locked

Lock Unit [l.Unit]

Set the status.

OFF = Unit menu is not locked ON = Unit menu is locked

Lock Print

Set the status.

OFF = Print menu is not locked ON = Print menu is locked

Lock COM [l.COmM]

Set the status.

OFF = COM menu is not locked ON = COM menu is locked

End Lock [End] – Advance to the next menu or return to the top of the current menu.

4.10 End Menu

Press 'Yes' to advance to the Calibration menu. Press 'No' to exit the menu and return to the current application mode.

4.11 Additional Features

The Weigh Below Hook is provided with the scale. To use this feature, remove power from the scale and remove the protective cover for the weigh below opening. Install the hook into the access hole at the bottom of the scale as shown. Do not over tighten, tighten finger tight. Mount the scale onto an appropriate assembly that allows free working space below the hook. See figure 4-1.

Note: Never allow the scale to rest directly on the hook.

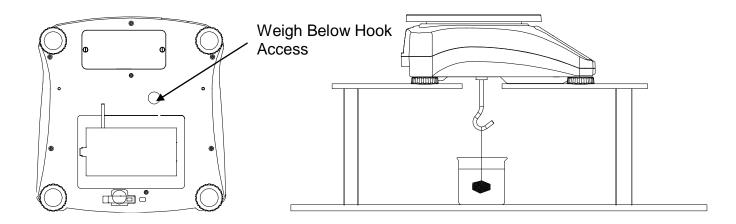


Figure 4-1. Setup for the Weigh Below Hook

						Flov	ation in m	otors				
		0	325	650	975	1300	1625	1950	2275	2600	2925	3250
		325	650	975	1300	1625	1950	2275	2600	2925	3250	3575
		Elevation in feet										
		0	1060	2130	3200	4260	5330	6400	7460	8530	9600	10660
		1060	2130	3200	4260	5330	6400	7460	8530	9600	10660	11730
	tude		1	1	1		GEO valu			•	1	
0°00'	5°46'	5	4	4	3	3	2	2	1	1	0	0
5°46'	9°52'	5	5	4	4	3	3	2	2	1	1	0
9°52'	12°44'	6	5	5	4	4	3	3	2	2	1	1
12°44'	15°06'	6	6	5	5	4	4	3	3	2	2	1
15°06'	17°10'	7	6	6	5	5	4	4	3	3	2	2
17°10'	19°02'	7	7	6	6	5	5	4	4	3	3	2
19°02' 20°45'	20°45' 22°22'	8	7	7	6 7	6	5 6	5 5	4 5	4	3	3
20 45 22°22'	22 22 23°54'	8	8 8	8	7	6 7	6	6	5	4 5	4	3 4
23°54'	25°21'	9	9	8	8	7	7	6	6	5	5	4
25°21'	26°45'	10	9	9	8	8	7	7	6	6	5	5
25 21 26°45'	20 43 28°06'	10	10	9	9	8	8	7	7	6	6	5
20 45 28°06'	20 00 29°25'	11	10	10	9	9	8	8	7	7	6	6
20'00 29°25'	29 23 30°41'	11	11	10	10	9	9	8	8	7	7	6
30°41'	31°56'	12	11	11	10	10	9	9	8	8	7	7
31°56'	33°09'	12	12	11	11	10	10	9	9	8	8	7
33°09'	34°21'	13	12	12	11	11	10	10	9	9	8	8
34°21'	35°31'	13	13	12	12	11	11	10	10	9	9	8
35°31'	36°41'	14	13	13	12	12	11	11	10	10	9	9
36°41'	37°50'	14	14	13	13	12	12	11	11	10	10	9
37°50'	38°58'	15	14	14	13	13	12	12	11	11	10	10
38°58'	40°05'	15	15	14	14	13	13	12	12	11	11	10
40°05'	41°12'	16	15	15	14	14	13	13	12	12	11	11
41°12'	42°19'	16	16	15	15	14	14	13	13	12	12	11
42°19'	43°26'	17	16	16	15	15	14	14	13	13	12	12
43°26'	44°32'	17	17	16	16	15	15	14	14	13	13	12
44°32'	45°38'	18	17	17	16	16	15	15	14	14	13	13
45°38'	46°45'	18	18	17	17	16	16	15	15	14	14	13
46°45'	47°51'	19	18	18	17	17	16	16	15	15	14	14
47°51'	48°58'	19	19	18	18	17	17	16	16	15	15	14
48°58'	50°06'	20	19	19	18	18	17	17	16	16	15	15
50°06'	51°13'	20	20	19	19	18	18	17	17	16	16	15
51°13'	52°22'	21	20	20	19	19	18	18	17	17	16	16
52°22'	53°31'	21	21	20	20	19	19	18	18	17	17	16
53°31' 54°41'	54°41' 55°52'	22 22	21 22	21 21	20 21	20 20	19 20	19 19	18 19	18 18	17 18	17 17
54 41 55°52'	55 52 57°04'	22	22	21	21	20	20	20	19	10	18	17
55 52 57°04'	57 04 58°17'	23	22	22	21	21	20	20	20	19	10	18
58°17'	59°32'	23	23	22	22	21	21	20	20	20	19	19
59°32'	60°49'	24	23	23	23	22	22	21	20	20	20	19
60°49'	62°90'	25	24	24	23	23	22	22	21	21	20	20
62°90'	63°30'	25	25	24	24	23	23	22	22	21	21	20
63°30'	64°55'	26	25	25	24	24	23	23	22	22	21	21
64°55'	66°24'	26	26	25	25	24	24	23	23	22	22	21
66°24'	67°57'	27	26	26	25	25	24	24	23	23	22	22
67°57'	69°35'	27	27	26	26	25	25	24	24	23	23	22
69°35'	71°21'	28	27	27	26	26	25	25	24	24	23	23
71°21'	73°16'	28	28	27	27	26	26	25	25	24	24	23
73°16'	75°24'	29	28	28	27	27	26	26	25	25	24	24
75°24'	77°52'	29	29	28	28	27	27	26	26	25	25	24
77°52'	80°56'	30	29	29	28	28	27	27	26	26	25	25
80°56'	85°45'	30	30	29	29	28	28	27	27	26	26	25
85°45'	90°00'	31	30	30	29	29	28	28	27	27	26	26

TABLE 4-2. GEO CODES

5. LEGAL FOR TRADE

When the scale is used in trade or a legally controlled application it must be set up, verified and sealed in accordance with local weights and measures regulations. It is the responsibility of the purchaser to ensure that all pertinent legal requirements are met.

5.1 Capacity Label

A label showing the capacity and readability of the scale must be installed near each display. If the Capacity Labels were installed prior to delivery, no further action is needed. If the Capacity Labels were not installed, they have been placed in the packaging material. Affix the labels above the displays as shown in Figure 5-1.

Note: The Capacity Labels will be destroyed upon removal, so only attempt to install them once.

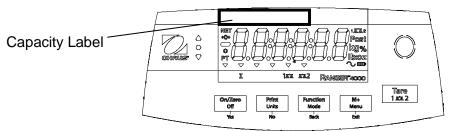


Figure 5-1. Capacity Label location

5.2 Settings

Before verification and sealing, perform the following steps:

- 1. Verify that the menu settings meet the local weights and measures regulations.
- 2. Perform a calibration as explained in Section 4.2.
- 3. Set the switch to Locked. See figure 5-2.

The Menu Lock switch limits changes to the Cal, Setup, Readout, Unit and Print menus. The switch in type approved models may set some scale settings as required by the approval agency. The switch may be secured using paper seals, wire seals or plastic ties.

Note: When LEGAL FOR TRADE is set to ON (LFT Switch in locked position), the menu settings are affected as follows:

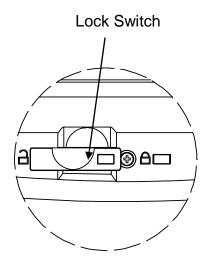
Calibration (CAL) menu is not accessible Dual Scale, Capacity 2, Graduation 2, Filter and Units are locked at their current settings Zero Range setting is locked at 2% Stable Range setting is locked at 1d Auto-Zero Tracking setting is locked at 0.5d Stable Only is locked On Auto Print/ Continuous is disabled Lb:oz is locked at Off

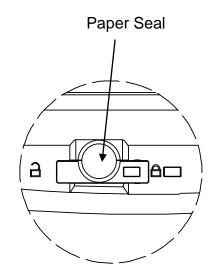
5.3 Verification and Sealing

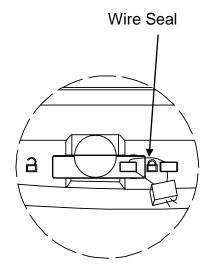
The local weights and measures official or authorized service agent must perform the verification procedure.

5.3.1 Physical Seals

For jurisdictions that use the physical sealing method, the local weights and measures official or authorized service agent must apply a security seal to prevent tampering with the settings. Refer to the illustration below for sealing methods.







Locked with Wire Seal

Unlocked

Locked with Paper Seal

Figure 5-2. Sealing

6. MAINTENANCE

6.1 Cleaning



WARNING: Electric Shock Hazard. Disconnect the scale from the power supply before cleaning. Make sure that no liquid enters the interior of the scale during cleaning.

The housing may be cleaned with a cloth dampened with a mild detergent if necessary.

Attention: Do not use solvents, chemicals, alcohol, ammonia or abrasives to clean the housing or control panel.

6.2 Troubleshooting

The following table lists common problems and possible causes and remedies. If the problem persists, contact OHAUS or your authorized dealer.

Symptom	Possible Cause	Remedy		
Cannot turn on	No power to scale	Verify connections and voltage		
Poor accuracy	Improper calibration Unstable environment	Perform calibration Move scale to suitable location		
Cannot calibrate	LFT locked	See chapter 5 for information		
Cannot access mode	Mode not enabled	Enter menu and enable mode		
Cannot access unit	Unit not enabled	Enter menu and enable unit		
Battery icon flashing	Low Battery error	Connect scale to AC power and charge the battery		
Err 8.1	Power On Error	Weight reading exceeds Power On Zero limit		
Err 8.2	Power On Error	Weight reading below Power On Zero limit.		
Err 8.3	Over Range Error	Weight reading exceeds Overload limit		
Err 8.4	Under Range Error	Weight reading below Underload limit		
Err 8.5	Tare out of range	Adjust tare value to be within range		
Err 8.6	Display overflow	Weight exceeds 6 digits		
Err 9.5	Calibration data error	Calibration data not present		
	Busy	Displayed during tare setting, zero setting, printing		
NO	Action not allowed	Function not executed		
CAL E	Calibration error Unstable environment Incorrect calibration weight	Calibration value outside allowed limits Move the scale to suitable location Use correct calibration weight		
Lo.ref	Low reference weight warning	Increase reference weight		
ref.err	Unacceptable reference weight	Reference weight too small. Weight on the pan is too small to define a valid reference weight. Increase reference weight.		
Battery fails to charge	Battery is defective	Have battery replaced by Ohaus		

TABLE 6-1

fully

6.3 Service Information

If the troubleshooting section does not resolve or describe your problem, contact your authorized OHAUS service agent. For service assistance or technical support in the United States call toll-free 1-800-526-0659 between 8:00 AM and 5:00 PM EST. An OHAUS product service specialist will be available to provide assistance. Outside the USA, please visit our web site, **www.ohaus.com** to locate the OHAUS office nearest you.

6.4 Accessories

TABLE 6-2. ACCESSORIES

DESCRIPTION	PART NUMBER
2 nd scale Interface Kit	30037446
Ethernet Interface Kit	30037447
2 nd RS232 Interface Kit	30037448
USB Interface Kit	30037449
In Use Cover	30240697
Weighing Below Hook	30025993
Printer	Contact Ohaus
Communication Cables	Contact Ohaus

7. TECHNICAL DATA

The technical data is valid under the following ambient conditions: Indoor use only Operating temperature: -10°C to 40°C Relative humidity: maximum relative humidity 80 % for temperatures up to 31 °C decreasing linearly to 50 % relative humidity at 40 °C

Altitude: Up to 2000 m

Power: AC power 100-240V 50/60 Hz, internal rechargeable sealed lead acid battery Mains supply voltage fluctuations: up to \pm 10% of the nominal voltage Pollution degree: 2 Installation category: II

7.1 Specifications

MODEL Capacity x Readability	R41ME3	R41ME6	R41ME15			
			K4TWET5	R41ME30		
(Max x d non- approved)	3 kg x 0.0001 kg 3000 g x 0.1 g 6 lb x 0.0002 lb 96 oz x 0.004 oz	6 kg x 0.0002 kg 6000 g x 0.2 g 15 lb x 0.0005 lb 240 oz x 0.01 oz	15 kg x 0.0005 kg 15000 g x 0.5 g 30 lb x 0.001 lb 480 oz x 0.02 oz	30 kg x 0.001 kg 30000 g x 1 g 60 lb x 0.002 lb 960 oz x 0.04 oz		
Maximum Displayed Resolution		1:30	0000			
Capacity x Readability (Max x e approved)	3 kg x 0.001 kg 3000 g x 1 g 6 lb x 0.002 lb 96 oz x 0.04 oz	30 kg x 0.01 kg 30000 g x 10 g 60 lb x 0.02 lb 960 oz x 0.36 oz				
Approved Resolution		1:3	000			
Repeatability	±0.0002 kg	±0.0005 kg	±0.001 kg	±0.002 kg		
Linearity	±0.0002 kg	±0.0005 kg	±0.001 kg	±0.002 kg		
Weighing Units	Non-Approved models: g, kg, lb, oz, lb:oz EC and OIML Approved models: g, kg Measurement Canada and NTEP Approved models: g, kg, lb, oz					
Tare Range		To capacity b	by subtraction			
Stabilization Time			econd			
Weight Display LCD	6-d		e LED backlight n / 1.1 inches digit hei	ght		
Weight Display LED	6-d		e LED n / 1.1 inches digit hei	ght		
Keyboard	5 mechanical buttons					
Application Modes	Weighing, Dynamic Weighing / Display Hold, Counting, Check Weigh, Check Counting, Check Percent, Percent Weighing, Accumulation					
Battery Operating Time (at 20°C)	210 hours for LCD version with backlight turned off 110 hours for LED version					
Construction	ABS plas	stic housing with 304	stainless steel (SST)	platform		
Approval Class		•	11			
Pan Dimensions		225 x 3	300 mm			
Net Weight	5.9 kg / 13 lb					
Gross Weight	7.2 kg / 15.9 lb					

TABLE 7-1. SPECIFICATIONS

7.2 Drawings

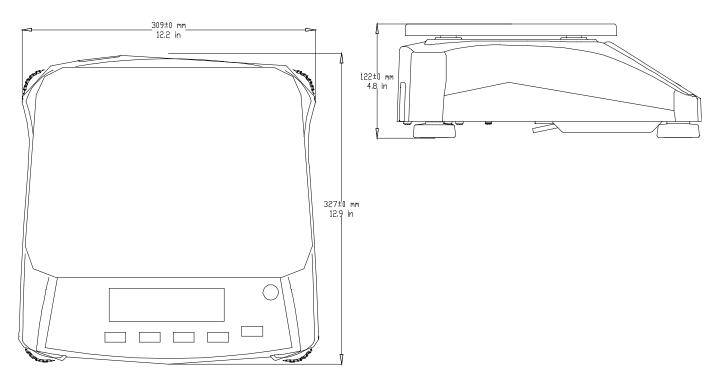


Figure 7-1. Dimensions

7.3 Communication

The scale is equipped with an RS232 interface (COM1) located under the Options Cover. Connecting the scale to a computer enables you to operate the scale from the computer, as well as receive data such as displayed weight.

7.3.1 Interface Commands

The scale supports both MT-SICS and OHAUS commands. Commands listed in the following tables will be acknowledged by the scale. To use the MT-SICS commands, send the command PSI. To return to the OHAUS commands, send the command POH

Command	Function
IP	Immediate Print of displayed weight (stable or unstable).
Р	Print displayed weight (stable or unstable).
CP	Continuous Print.
SP	Print on Stability.
xS	0S: Turn off "Stable Only" menu item and allow unstable print. 1S: Turn on "Stable Only" menu item and only print stable print.
хP	Interval Print x = Print Interval (1-3600 sec), 0P turns auto print OFF.
Z	Same as pressing Zero Key.
Т	Same as pressing Tare Key.
хT	Download Tare value in grams (positive values only).
XI	Sending 0T clears tare (if allowed).
PU	Print current unit: g, kg, lb, oz, lb:oz
хU	Set scale to unit x: 1=g, 2=kg, 3=lb, 4=oz, 5=lb:oz
хM	Set scale to mode x. M will scroll to next enabled mode.
PV	Version: print name, software revision and LFT ON (if LFT is set ON).
H x "text"	Enter Header line, where $x = line$ number 1 to 5, "text" = header text up to
	24 alphanumeric characters.

TABLE 7-2

<u>EN 31</u>

Command	Function
F x "text"	Enter Footer line, where $x = line$ number 1 to 2, "text" = rear text up to 24
	alphanumeric characters.
\EscR	Global reset to reset all menu settings to the original factory defaults
LSCK	(Escape key + 'R' Key)
SNS x	Switch to Platform x; 1 = Main Platform, 2 = 2nd Platform. (Only available
SING X	when 2nd Platform is connected)

MT-SICS Commands

	Command	Function
LEVEL 0	@	Reset the scale
	10	Inquiry of all available SICS
		commands
	11	Inquiry of SICS level and SICS
		versions
	12	Inquiry of scale data
	13	Inquiry of scale software version
	14	Inquiry of serial number
	S	Send stable weight value
	SI	Send weight value immediately
	SIR	Send weight value repeatedly
	Z	Zero the scale
	ZI	Zero immediately
LEVEL 1	D	Write text into display
	DW	Weight display
	SR	Send and repeat stable weight value
	Т	Tare
	ТА	Tare value
	TAC	Clear tare
	TI	Tare immediately

7.3.2 Connections for RS232

The 9-pin female subminiature "D" connector COM1, is provided for interfacing to other devices. The pin connections are as follows:

Active pins: PIN 2 = TXD, PIN 3 = RXD, PIN 5 = Ground

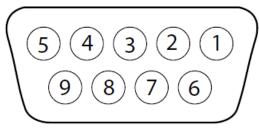


Figure 7-2. RS232 Pins

7.4 Printouts

The following sample print outs are generated by the Print button, "P" Command or alternate print command. The content of the printout is defined in the Print Content menu item. A maximum of 24 characters can be printed on each line.

Weigh Mode Printout

-	Description	Comment
12.34 kg	Result line	If Printx \rightarrow Content \rightarrow Result is ON
12.34 kg G	Gross value line	If Printx \rightarrow Content \rightarrow Gross is ON and a tare value is entered
11.11 kg NET	Net value line	If Printx \rightarrow Content \rightarrow Net is ON and a tare value is entered
1.23 kg T	Tare value line	If Printx \rightarrow Content \rightarrow Tare is ON and a tare value is entered
<no line="" printed=""></no>	Information line	If Printx \rightarrow Content \rightarrow Info is ON
MODE: WEIGH	Mode line	If Printx \rightarrow Content \rightarrow Application Mode is ON. Into is ON

Weigh Mode with Accumulation Printout

ment

	Result line	If Printx \rightarrow Content \rightarrow Result is ON
12.34 kg G	Gross value line	If Printx \rightarrow Content \rightarrow Gross is ON and a tare value is entered
11.11 kg NET	Net value line	If Printx \rightarrow Content \rightarrow Net is ON and a tare value is entered
1.23 kg T	Tare value line	If Printx \rightarrow Content \rightarrow Tare is ON and a tare value is entered
N:4	Accumulation line	If Printx \rightarrow Content \rightarrow Accu is All
MIN: 11.11 kg	Accumulation line	If Printx \rightarrow Content \rightarrow Accu is All
	Accumulation line	If Printx \rightarrow Content \rightarrow Accu is All
- ^^^^^		

Percent Mode Printout

· · · · · · · · · · · · · · · · · · ·	
12.34 % Result line If Pi	ntx \rightarrow Content \rightarrow Result is ON
12.34 kg G Gross value line If Pr	ntx \rightarrow Content \rightarrow Gross is ON and a tare value is entered
11.11 kg NET Net value line If Pi	ntx \rightarrow Content \rightarrow Net is ON and a tare value is entered
1.23 kg T Tare value line If Pi	ntx \rightarrow Content \rightarrow Tare is ON and a tare value is entered
REF WGT 0.012 kg Information line If Pi	ntx \rightarrow Content \rightarrow Info is ON
MODE: PERCENT Mode line If Pi	ntx \rightarrow Content \rightarrow Application Mode is ON

Count Mode Printout

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Description	Comment
12.34 PCS	Result line	If Printx $\rightarrow$ Content $\rightarrow$ Result is ON
12.34 kg G	Gross value line	If Printx $\rightarrow$ Content $\rightarrow$ Gross is ON and a tare value is entered
11.11 kg NET	Net value line	If Printx $\rightarrow$ Content $\rightarrow$ Net is ON and a tare value is entered
1.23 kg T	Tare value line	If Printx $\rightarrow$ Content $\rightarrow$ Tare is ON and a tare value is entered
APW: 0.012 kg	Information line	If Printx $\rightarrow$ Content $\rightarrow$ Info is ON
MODE: COUNT	Mode line	If Printx $\rightarrow$ Content $\rightarrow$ Application Mode is ON
	,	

#### **Check (Weigh) Mode Printout**

#### Description 12.34 kg OVER Result line If Printx → Content → Result is ON, UNDER/ACCEPT/OVER 12.34 kg G If Printx $\rightarrow$ Content $\rightarrow$ Gross is ON and a tare value is entered Gross value line 11.11 kg NET Net value line If Printx $\rightarrow$ Content $\rightarrow$ Net is ON and a tare value is entered 1.23 kg T Tare value line If Printx $\rightarrow$ Content $\rightarrow$ Tare is ON and a tare value is entered UNDER TARGET 1.00 kg Information line If Printx $\rightarrow$ Content $\rightarrow$ Info is ON Information line If Printx $\rightarrow$ Content $\rightarrow$ Info is ON OVER TARGET 2.00 kg If Printx $\rightarrow$ Content $\rightarrow$ Application Mode is ON MODE: CHECKWEIGH Mode line

#### **Dynamic Mode Printout** Deceriation

	Description	Comment
FINAL WT: 12.34 KG	Result line	If Printx $\rightarrow$ Content $\rightarrow$ Result is ON
12.34 kg G	Gross value line	If Printx $\rightarrow$ Content $\rightarrow$ Gross is ON and a tare value is entered
11.11 kg NET	Net value line	If Printx $\rightarrow$ Content $\rightarrow$ Net is ON and a tare value is entered
1.23 kg T	Tare value line	If Printx $\rightarrow$ Content $\rightarrow$ Tare is ON and a tare value is entered
LEVEL 10	Information line	If Printx $\rightarrow$ Content $\rightarrow$ Info is ON
MODE: DYNAMIC	Mode line	If Printx $\rightarrow$ Content $\rightarrow$ Application Mode is ON

C -----

#### Comment

#### <u>EN 33</u>

## 7.5 Output Format

Weight string print format:

Field	Weight	space	Unit	space	Stability	space	G/N	Space	Term.
									Char(s)
Length	9	1	5	1	1	1	NET	1	

#### Each field is followed by a single delimiting space (ASCII: 32)

#### **Definitions:**

- Weight Up to 9 characters, right justified, at immediate left of most significant character (if negative).
- Unit Up to 5 characters, left justified. If the Unit in the Print Content menu was set to OFF, the unit will be removed in the weight string and replaced by spaces.
- Stability "?" character is printed if not stable. If weight is stable neither "?" or following space is printed.
- G/N "NET" printed if weight is net weight, 'G' or nothing printed if weight is a gross weight.

Terminating Character(s) - terminating character(s) printed depending on FEED menu setting.

## 7.6 Compliance

Compliance to the following standards is indicated by the corresponding mark on the product.

Mark	Standard
CE	This product conforms to the EMC Directive 2004/108/EC, the Low Voltage Directive 2006/95/EC and the Non-Automatic Weighing Instrument Directive 2009/23/EC. The Declaration of Conformity is available online at http://europe.ohaus.com/europe/en/home/support/compliance.aspx
	AS/NZS 61000.6.1, AS/NZS 61000.6.3
Currow US MC173467	UL Std. No. 61010-1 CAN/CSA-C22.2 No. 61010-1

#### Important notice for verified weighing instruments



Weighing Instruments verified at the place of manufacture bear one of the preceding marks on the packing label and the green 'M' (metrology) sticker on the descriptive data plate. They may be put into service immediately.

Weighing Instruments to be verified in two stages have no green 'M' (metrology) on the descriptive data plate and bear one of the preceding identification marks on the packing label. The second stage of the initial verification must be carried out by an authorized and certified service organization established within the European Community or by the National Notified Body.

The first stage of the initial verification has been carried out at the manufacturers work. It comprises all tests according to the adopted European standard EN 45501:1992, paragraph 8.2.2.

If national regulations limit the validity period of the verification, the user of the weighing instrument must strictly observe the re-verification period and inform the respective weights and measures authorities.



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.

The Batteries Directive 2006/66/EC introduces new requirements from September 2008 on removability of batteries from waste equipment in EU Member States. To comply with this Directive, this device has been designed for safe removal of the batteries at end-of-life by a waste treatment facility.

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.

Disposal instructions in Europe are available online at

www.ohaus.com/weee

Thank you for your contribution to environmental protection.

#### FCC Note

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

#### **Industry Canada Note**

This Class B digital apparatus complies with Canadian ICES-003.

#### **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 June 21, 2012, OHAUS Corporation, USA, was re-registered to the ISO 9001:2008 standard.

#### 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.



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