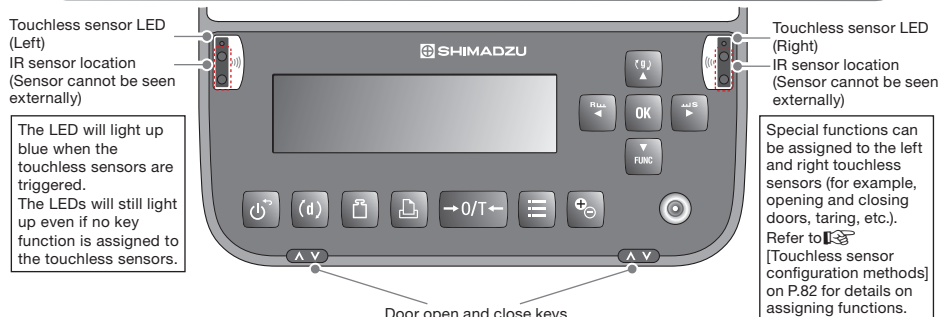


Explanation Sheet 『Operation Guide』

Measurement Keys + Application Function Operation Keys



* The touchless sensors (left and right) and door open and close keys (left and right) are only available on the W-AD Series.

Key Name	During Measurement		During Menu Operations
	Short Press	Long Press (Approx. 3 or more seconds)	
[POWER]	Switches across to the Operation Mode/Stand-by mode.	—	Returns to the Weight Measurement Mode
[d] [1d/10d]	Switches across to minimum display when in the Weight Measurement Mode. (0.01mg ⇔ 0.1mg/0.1mg ⇔ 1mg) ^{*1}	—	—
[CAL]	Executes calibration	Calls the setting Calibration menu in the System settings.	—
[PRINT] ^{*2}	Outputs weighing values to external equipment (printer, PC).	Calls the printer setup menu in the System settings.	—
→0/T← [O/T] ^{*3}	Executes taring (zero setting)	Calls the Zero/Taring menu.	—
[MENU]	Calls the menu when in the weight measurement mode. Calls the Statistical calculation menu when Statistical calculations are executed. Calls the menus for each application function when application functions are executed.	—	Returns to the weight measurement mode.
[ION]	Ionizer ON/OFF	Calls the ionizer setup menu.	—
[OK] [OK]	—	—	• Sets the menu. • Moves to the next operation with the wizard.
[UP] ▲	Switches between units when in the weight measurement mode. Displays the unit weight when in the Piece counting measurement mode. Displays the standard weight when in the Percent measurement mode.	Calls the unit registration menu when in the weight measurement mode. Switches between sample numbers when in the Piece counting measurement mode. Switches between percent standards when in the Percent measurement mode.	• Scrolls back through menu items. • Increases the number when numerals are being input.
[DOWN] ▼	Switches across to the application function mode when in the weighing mode.	Recalculates unit weights during Piece counting measurements	• Scrolls through menu items. • Decreases the number when numerals are being input.
[LEFT] ◀	Adjusts to gain increased response for the weight display.	—	Moves to the top menu item. Moves one digit to the left when numerals are being input.
[RIGHT] ▶	Adjusts to gain increased stability for the weight display.	—	Moves to the lower menu item. Moves one digit to the right when numerals are being input.
Door open and close keys	Opens and closes glass doors	—	Opens and closes glass doors

^{*1} Not applicable to a verified balance as a legal measuring instrument in the EU.

^{*2} Output is not made when the display is not stable with a verified balance as a legal measuring instrument in the EU.

^{*3} Using a verified balance as a legal measuring instrument in the EU:

Either "Taring" (at a weight exceeding 2.0% of the capacity) or "Zero-setting" (at a weight within 2.0% of the capacity) takes place.
Either "Taring" (at a weight exceeding 0.9g) or "Zero-setting" (at a weight within 0.9g) takes place with semi-micro model only.

Display Panel

In addition to display the results of weight measurements, it is also possible to select called out menu items on the display panel. A flexible display will be shown depending on the function selected. This section provides examples of the display when measuring weight.

Display Examples when Measuring Weight



No.	Status	Descriptions	Refer To
(1)	Measurement mode display area	Displays the current function.	
(2)	Account/Time display area	The account name used to log-in and current time are displayed.	P.73
		(Communication mark) Indicates that communications with externally-connected equipment is taking place. - Indicates that a USB memory is connected. - Menu lock	P.128 P.148 P.70
(3)	weighing value display area	Displays the results and units used in measuring weight and the measurement status.	
		- Stability Mark: Displayed when the weighing value is stable. - NET: Indicates the sample weight. (Displaying Tare) Displays the weight of taring (empty container). - Gross: Gross: Indicates the sum of the tare and sample weight. (HOLD) Displays the status of [HOLD], which fixes the measurement value display in place. (Auto zero) Displays whether the measurement value is within the zero range or not. - Minus : Displayed when the weighing value is in the minus status. - NET: NET: Indicates that the weighing value displayed when measuring formulas (formulation) is the net value minus the weight of the tare container. It also indicates that weighing is in progress. - Comparator: Displays the analog bar and comparator mark that indicate Pass/Fail in accordance with preset conditions. (ANALOG BAR) Displays the current measurement value in the analog bar. - Bracket^{*2}	P.64 P.42 P.42 P.42 P.95 P.60 — P.108 P.118 P.118
(4)	Status Area	The current setting is displayed in this area.	
		- MW: Displays the minimum weighing value and unit. - R 1.1 S: Smart Setting Indicator: Indicates the level at which response and stability are currently being adjusted. - Displays the status of the printer (option) connected. - Auto-print_Setting in progress - Auto-print _ Operations in progress - Interval _ Setting in progress - Interval _ Operations in progress - Measurement Status: Indicates the measurement status. - Filling - Zero tracking - Statistical calculation - Error Status: Indicates the cause of error statuses. - Calibration required - Insufficiency battery - Insufficient USB memory	P.122 P.63 P.141 P.141 P.143 P.143 P.62 P.58 P.117 P.50 P.26 P.148

^{*1} Using a verified balance as a legal measuring instrument in the EU:

Indicates that the balance is set exactly to "Zero" with the zero-setting function (within ±0.25e: e = verification scale interval).

^{*2} Using a verified balance as a legal measuring instrument in the EU:

The figure(s) bordered by the bracket is(are) the auxiliary indicating device.

Menu Map Sheet

The menu map is a diagram that shows the entire system of menu items in an easy-to-understand style. This is useful for swiftly accessing the menu required. See  [How to use Menus] (P.38) for details on the menu setting mechanisms and menu operation methods.

Using the Menu Map

Menu Map Symbols	Operation Explanations
[ UP], [ DOWN]	Select the required menu.
[ RIGHT], [ OK]	Set the selection or move across to the lower level menu.
[ LEFT]	Move to the upper level menu.
	Refers to the relevant page in the instruction manual.
*	Default settings (when the menus are reset).

Menu Configuration

Mode Selection

	Standard measurement	Standard measurement 	 P.33
	Piece counting measurement		 P.89
	Percent measurement		 P.92
	Averaging mode ²		 P.95
	Solid specific gravity		 P.99
	Liquid density		 P.103
	Add-on mode		 P.106
	Formulation mode		 P.108
	Recipe preparation (W-AD/ W Series only)		 P.111
	Buffer solution preparation (W-AD/ W Series only)		 P.114
	Sample preparation (W-AD/ W Series only)	 P.115	

Menu for Each Applied Measurement

Menus that correspond with the applied measurement in use will be displayed.	 P.88
	 P.117

Measurement setting

	Filling	off		 P.62
	Zero tracking	on		 P.58
	Zero/tare timing ³	immediate		 P.59
	Auto zero ³	off		 P.60
	Auto tare	off		 P.61
	Stability detection range (0.5, 1, 5, 10 count)	1		 P.64
	Stability mark ON timing ³	Standard		 P.65
	Unit change	g		 P.66
	Unit setting ³ (a part of the unit)	g		 P.66
	Target measurement	off		 P.118
	Pass/fail evaluation	off		 P.120
	Minimum weight setting	off		 P.122

Default settings

Items Set for Each User

relevant page in the instruction manual

*1 Only mode selection can be set for each user. The values set for each mode (unit weights for individual measurements, recipe formation, etc.) shared by all users.
*2 Only ON/OFF can be set for each user. Other set values (zero range, target values, etc.) are shared by all users.
*3 Not applicable to a verified balance as a legal measuring instrument in the EU.

System setting		
System settings	Date	 P.80
	Date output style	YY/MM/DD  P.80
	Time	 P.80
	Brightness	3   P.81
	Sound	on   P.81
	Ion irradiation time (W-AD/ W Series only)	10 sec.  P.127
	Manual trigger (manual start) (W-AD Series only)	on  P.83
	Touchless multi function mode (W-AD Series only)	on  P.83
	Touchless function assignment (W-AD Series only)	 P.84
	Balance ID	0000_____  P.79
Print	Screen saver	10 mins.  P.78
	OP mode setting	OFF display  P.78
	Decimal point display	Period  P.42
	Bar code transfer (W-AD/ W Series only)	No data transfer  P.151
	Language	English  P.82
	Menu reset (Password)	 P.69
	Menu setting output	 P.71
	Menu lock (Password)	off   P.70
	Screen capture	off  P.148
	Interval timer (Averaging output interval)	off  P.143
Memory save setting	Auto print	off  P.141
	Date/time printed	off  P.146
	Bar code ID printed (W-AD/ W Series only)	off  P.146
	Sample ID printed	off  P.146
	Output timing ³	immediate  P.141
	Save measurement records to USB (W-AD/ W Series only)	on  P.148
	Save calibration records to USB (W-AD/ W Series only)	on  P.148
	Browse weight values ³	 P.86
	Browse CAL/Inspection records ³	 P.86
	Delete internal memory (Password) (Delete all data)	 P.87
Communication setting	Internal memory output ³ (Possible only configuration information output)	 P.149
	USB saved data format (W-AD/ W Series only)	Print format  P.148
	RS232C	Standard  P.137
	USB	Standard  P.137
Calibration/Inspection	CAL key setting	W-AD/WX:Internal weight Calibration Y:External weight Calibration  P.44
	GLP output	 P.145
	Timer CAL (W-AD/ W/ X Series only)	off  P.52
	PSC (W-AD/ W/ X Series only) ³	off  P.50
	Adjustment of internal weight (W-AD/ W/ X Series only) ³	on  P.48
	Periodic inspection (W-AD/ W/ X Series only)	 P.53
User setting	Log-in function	off  P.73
	Administrator	 P.74
	USER01-10	 P.74
		 P.72
Menu history		

*3 Not applicable to a verified balance as a legal measuring instrument in the EU.
*4 Not applicable to verified balance as a legal measuring in Brazil and India.