OPERATING MANUAL

Stainless Steel Scales

Compact Scale in Stainless Steel Housing – Series KWE

KWE-220420-Rev010-UM-en

Contents

1. Components and Features

Key Function

Symbol	Short Description	Designation
	**[OFF]**	Off-Button
	**[ON/ZERO]**	On- and Zero-Button
	**[SET]**	Enter-Button / Set up und Configuration-Button (in combination with another button)
	**[TARE]**	Tare-Button

2. Installation and use of scale

This symbol means: "Consult operating instructions". To achieve accurate results, read the instructions for use carefully before use and follow all instructions provided therein. Keep the instructions for use for future reference.

Your ADE compact scale KWE in stainless steel housing is a quality product, which is designed for a lot of different weighing performances for controlling, where approval is not necessary. The scale has both-sided displays.

Four selectable graduations give the user different possibilities to adjust the displayed results to the user's intention.

The integrated program for piece counting offers the user easy piece counting.

An optical signal in conjunction with freely programmable minimum and maximum limits also extends the range of applications, for example, when weighing always the same weight quantities.

The stainless steel housing allows using the scale in humid working environments.

The scale is a precision instrument and must be treated accordingly. Therefore kindly read and follow the Operating Manual in all respects.

2.1 Check carton contents

- Compact Scale
- Weighing platform
- Operating manual including Certificate of Conformity
- Rechargeable batteries (only for models with rechargeable batteries included)

2.2 Positioning of the scale

Make sure all four feet of the platform have direct contact to the surface.

The spirit level of the scale is an additional tool to make sure the scale is carefully positioned and offers best results when the air bubble is centered.

The alignment of the scale must be checked and corrected every time the location of the scale is changed.

Place the metal weighing tray on the platform.

Connect the mains adapter to the scale.

2.3 Power supply of the scale

Power supply is by mains with directly connected power plug (230V) or with rechargeable batteries (only for models with rechargeable batteries).

The battery pack is already installed in the base of the scale.

For the first loading of the rechargeable batteries please take the power line cable out of the battery box inside the scale (at the bottom side of the scale) and connect it with the local electricity grid. Complete first charging of power-packs needs approx. 10 hours. Please make sure that the local voltage supply corresponds to the indication printed on the adapter.

2.4 Power immediate operation

Working with mains all three LCD („High“, „Mid“, „Low“) are on.

For models with rechargeable batteries:

- All three segments lighting = Power voltage of rechargeable batteries is more than 6.3V,
- Two segments lighting = Power voltage of rechargeable batteries is between 6V und 6.3V,
- One segment lighting = Power voltage of rechargeable batteries is under 6V.

2.5 Power Charge Operation (only for models with rechargeable batteries):

When the power voltage indicator shows just one segment, scale should be charged by the charger in battery storehouse. If not, the scale would turn off in between 15 minutes.

Full charging needs about approx. 10 hours.
The battery should be charged at least once every 3 months.

If the running time gets more and more less, rechargeable batteries have to be replaced. Please contact your local dealer.

Please take sure that used voltage is 230V/50Hz.

2.6 Switch on

Press **[ON]**. The whole display illuminates with a serial of steps and ends with the screen display „0“. After the **[ZERO]** indicator is lighting, the scale is ready for weighing.

2.6.1. Switch-off

Scale can be turned off forcibly by pressing **[OFF]**.

2.6.2. Auto-off / Standby (only working with rechargeable batteries)

The scale has an automatic shut-off function, which can be activated or deactivated in parameter setting.

Setting could be automatic shut-off after 10 minutes or deactivated shut-off. In this case depending on the setting the backlight is always on or shut-off after 40 seconds showing “0”.

If you place something on the platform, the scale goes back in weighing modus.

2.6.3. Low voltage auto-off

If the voltage of the rechargeable batteries is less than 5.6V, the scales turn off automatically.

2.7 Zero Operation

When scale is on, **[ON]** is the key to zero. It is only available within 4% of the maximum capacity; otherwise it will immediately display “HHHHHH“.

2.8 Displaying the voltage

When scale is on, it will display the voltage when pressing **[ON]** key for 3 seconds. Now if press **[ON]** again, the scale will return to weighing mode.

2.9 Tare Operation

Place the container on the scale until the display indicates the weight number steadily.

Press **[TARE]**, then the display indicates “0” and the **TARE** indicator is lighting.

Place the weighing objects into the container, and then scale shows the Net weight.

Move the container and the weighing objects off, and then scale will show the minus weight of the container. Then press **[TARE]** again, the tare weight can be cleared, that the **TARE** indicate out and the scale is set to zero.

If the display is not stable, no arrow is shown.

2.10 Unit operation

When scale is on, press **[TARE]** for more than 3 seconds to change the weight unit between g, kg and lbs. Requirement is a stable weight.

Selected unit will be stored, when scale is switched off.

2.11 Check weighing – Minimum and maximum values with acoustical alarm

For setting minimum and maximum values, scale has to be empty.

Now press both **[SET]** and **[ON]** together for 3 seconds.

Display will show “-no-“ (in delivery condition). Press **[TARE]**, it will circularly display “-no-“, “-in-”, “-out-“ and again “-no-“:

„-no-“	deactivates the alarm function.
„-in-“	activates the alarm within the range.
„-out-“	activates the alarm out of the range.

When display shows “-in-“ or “-out-“, press **[ON]** to confirm the choice.

When “-in-“ or “-out-“ is confirmed now the minimum value can be chosen. The display shows an arrow at “Under” and the first digit is lighting. The light shows the value set last time and the digit which can be adjusted is blinking. Now press **[SET]** to change the digit, press **[TARE]** to change the digit value, and press **[ON]** to confirm.

Then the setting of minimum value is done and the arrow at “Over” is lighting. Use the same way to finish the setting of the maximum value.

When finished setting, it returns to weighing mode and the weighing alarm function is on.

If the weight is upper the maximum value, the “Over” indicator is lighting, while arrow to “Under” is lighting, when weight is under minimum value.

If the weight is between minimum and maximum values the arrow next to “Accept” is lighting.

For zeroing minimum and maximum values, set both values back to 000000 or deactivate function by choosing “–no-”.

The settings will be stored in memory when scale is switched off.

If changing the weighing unit, this function will be closed and the current setting value will be auto-cleared.

If changing the graduation, this function will be closed and the current setting value will be cleared.

2.12 Counting Function

Switch on the scale and put on the reference number of pieces.

This function can be activated only with loaded platform!

Press both **[SET]** and **[ON]** keys together for 3 seconds. Display shows “pcs_y”.

Press **[TARE]** to deactivate the counting function. Display shows “pcs_n”.

To confirm your choice press **[ON]**.

When choosing „pcs_y“ press **[ON]**. Display will show “000000” and the first digit of reference number of pieces is blinking. Now press **[SET]** to change the blinking digit, press **[TARE]** to change the blinking digit value. Following this way enter the reference number of pieces put on the platform and press **[ON]** to confirm. With setting the scale will store reference number and will automatically turn into counting mode. Arrow at “PCS” will show activated counting mode.

Now place an arbitrary number of pieces on the weighing platform and display shows the number.

The settings will be stored in memory when scale is switched off.

For returning to weighing mode press both **[SET]** and **[ON]** together for 3 seconds, and choose “pcs_n” by pressing **[TARE]** Confirm your choice with **[ON]**.

The setting will be stored and scale return to weighing mode. When scale is switched on next time, it starts in weighing mode.

Piece counting function doesn’t work, if unit “lbs” is selected.

3. Environment Parameter Setting

The user has different parameters to adjust the scale to his preferences.

The following parameters can be adjusted:

PrE	Adjustment display precision
UNT	Adjustment units
ZEr	Automatic Zero tracking
Z-t	Time interval of the automatic zero tracking
FIt	Stability Filter
SAU	Power Saving Mode / Standby
SPd	Display Update Speed
drl	Creep Tracking Range
Prt	Printer setting

To call up the parameter setting press **[SET]** and **[TARE]** on same time for 3 seconds. There will appear menu „PrE“ to adjust the display precision.

To enter the various menus, press **[ON]** again and again. Within the menu you can change adjustments by pressing **[TARE]**. Pressing **[ON]** confirms the choice and changes to next parameter.

3.1 Saving

Confirming the last menu parameter by pressing **[ON]**, all made changes done before are saved.

By pressing **[SET]** you’ll return to weighing mode without retention of the setting.

3.2 Adjustment display precision

Please start as described in the beginning of this chapter to enter this menu and „PrE“ is shown in the display.

Now you can change between four given graduations as shown below by pressing **[TARE]**. The default setting varies depending on the model.

Capacity:	3 kg	6 kg	15 kg
Graduation Adjustment 0:	1 g	2 g	5 g
Graduation Adjustment 1:	0,5 g	1 g	2 g
Graduation Adjustment 2:	0,2 g	0,5 g	1 g
Graduation Adjustment 3:	0,1 g	0,2 g	0,5 g

3.3 Weighing unit (kg, g, lbs)

Please start as described in the beginning of chapter 3 to enter this menu and „UNT_“ is shown in the display.

You can choose between the units by pressing [TARE]. The default setting varies depending on the model.

Adjustment 0	g
Adjustment 1	kg
Adjustment 2	lbs

3.4 Automatic Zero tracking

The automatic zero tracking is only active as long as only certain maximum weight changes are detected during continuous time intervals. It is recommended to change only one of the two parameters (3.4 or 3.5). In this parameter you can set the weight tolerance for the automatic zero tracking, which is particularly advantageous for weighing processes with slowly increasing weights.

To do this, proceed as described in the introduction in Chapter 3 until "Zer__" appears in the display.

By repeatedly pressing the **[TARE]** key, you can choose between 11 settings (0 - 5 in half steps). The default setting is "Zer__2.0".

Note: If higher resolution is selected ("PrE"; 3.2 Setting the digit step), select a high value for zero tracking.

3.5 Time Interval for Automatic Zero Tracking

In this menu item you can set the applicable time interval for determining the automatic zero tracking. For automatic zero tracking, the weight may only change within the set continuous time interval by the factor set in 3.4.

Proceed as described in the introduction to chapter 3 until "Z-t__" appears in the display.

By repeatedly pressing the **[TARE]** key, a time of 0 to 5 seconds (0.5-second steps) can be set. The default setting is "Z-t__1.5".

3.6 Stability Filter

Please start as described in the beginning of chapter 3 to enter this menu and „Flt_“ is shown in the display.

To change the adjustment of the filter stability can be helpful if working environments make it sensible, e. g. by draughts. If you chose a higher stability filter, it changes also the time to stabilization the scale.

Please choose between four adjustments the stability filter by pressing **[TARE]**. Default is “Flt_1”.

Adjustment 0	smallest filter = fast stabilization
Adjustment 1 + 2	
Adjustment 3	biggest filter = slower stabilization

Remark: If you have selected a higher graduation („PrE“; 3.2 Adjustment display precision), select a high value for stability filter.

3.7 Power Saving Mode / Standby (only for models with rechargeable batteries)

Please start as described in the beginning of chapter 3 to enter this menu and „SAU“ is shown in the display.

By pressing **[TARE]** the Standby function can be enabled or disabled. The default setting varies depending on the model.

Adjustment 0	Standby disabled. Backlight of display is always on.
Adjustment 1	Standby enabled. After 40 seconds display is showing “0”, backlight automatically switches off. By putting something on the weighing platform again, backlight of display will switch on again.
Adjustment 2	Standby enabled. After 40 seconds display is showing “0”, backlight automatically switches off. By putting something on the weighing platform again, backlight of display will switch on again. If nothing will be put on the weighing platform within ten minutes, the scale automatically switches off.

3.8 Display Update Speed

Please start as described in the beginning of this chapter to enter this menu and „SPd“ is shown in the display.

By pressing **[TARE]** the speed of the displayed weighing results can be adjusted. Default is “SPd_1”.

Adjustment 0	Speed low
Adjustment 1	Speed high

3.9 Creep Tracking Range

This setting can be used to adjust the tracking range and thus compensate for effects of the creep effect. This means that smallest weight changes within a continuous time interval of 5 seconds (drl__1 = 0.01d) are compensated and not displayed.

Proceed as described in the introduction in chapter 3 until "drl__" appears in the display.

Select the tracking range from five settings (values 0 - 4) by pressing the [TARE] key. The larger the value, the larger the tracking range. The default setting is "drl__1".

3.10 Printer setting

Please start as described in the beginning of chapter 3 to enter this menu and „Prt_“ is shown in the display.

Setting has to be “Prt_0”, because scale has no interface for connecting PC or printer.

4. Display information

SP – x.x	Version number
„xxxxxx“	Software number
“CAPxx.0”	Capacity / Maximum load of the scale
„nnnnnn“	Scale is overloaded. The current weighing is higher than the valid capacity.
“------“	Data is unstable
“LLLLLL”	Output of load cell is lower.
“HHHHHH”	Output of load cell is higher or turn on zero is higher than range.
- Lo -	Low battery – Recharge the rechargeable battery immediately.
FULL	Rechargeable battery has been charged fully.
“_Inlt_”	Faulty weighing

5. Troubleshooting

Fault	**Cause**	**Solution**
Faulty weighing result	Parameter of load cells have changed	Re-calibration
Display shows „HHHHHHHH“	Over zero range	Re-calibration
	Load cell or PCB damaged	
Display shows „LLLLLLLL“	Load cell or PCB damaged	
Rear display doesn’t show anything	Parameter fault	Correction of setting as shown in the manual
	Load cell damaged	
Rechargeable battery is not loading although loading is shown	Rechargeable battery is damaged	Replace rechargeable battery
Rechargeable battery is not loading and no loading is shown	Charging unit for rechargeable battery is damaged	
Quickly discharging of rechargeable battery	Old rechargeable battery	Replace rechargeable battery
Display shows „_Inlt_“	Faulty weighing	Re-start the scale or Re-calibration

6. Cleaning and Maintenance

6.1 Cleaning

Before cleaning make sure the scale has been disconnected from the socket. For cleaning just use a damp cloth or common disinfection products. Do not use any aggressive cleaning fluids.

Models without rechargeable battery can be cleaned under running water.

Please make sure before starting cleaning, if there's a rechargeable battery inside. Otherwise the scale or the rechargeable battery can be damaged.

If a rechargeable battery is inside, make sure no water or cleaning fluid penetrates the scale.

It isn't allowed to clean the scale with a high-pressure cleaner!

6.2 Storage and Transport

Keep all original parts and pieces for an eventual sending back of the scale in order to avoid any possible damage during transport which automatically leads to no warranty.

6.3 Disposal of Waste

Waste electrical equipment do not belong in household waste. Devices with this marking may not be disposed of as residual waste, but must be recycled.

Remove (if possible) all batteries and rechargeable batteries from the devices and send them to the battery disposal.

Make sure that only depleted batteries or batteries with insulated poles are disposed of so that there is no short circuit!

6.4 Warranty

A one year warranty period from date of purchase will be guaranteed for either repair or replacement once it is proven that the defects are caused by poor material or poor workmanship (please keep the receipt for presentation). All moveable parts such as batteries, cables, plug-in power supply units, rechargeable batteries etc. are excluded. Warranty does not apply to normal appearance of usage or sign of wear or any damages caused by accidents or misuse. Products which have been opened by unauthorized persons are automatically out of warranty.

Customers abroad are requested to contact their local dealers in the event of any warranty becoming applicable.

6.5 Safety Instructions

Do NOT use the scale:

- If the mains plug or cable shows visible damages

In this case contact your local dealer or service partner.

7. Technical Data

Type	**KWE3-IP65**	**KWE6-IP65**	**KWE15-IP65 / KWE15-IP68**
Capacity	3 kg	6 kg	15 kg
Graduation (d)	0.1/0.2/0.5/1g	0.2/0.5/1/2g	0.5/1/2/5g
Min. Weight	20d		
Maximum tare	100% maximum weight		

Model	**KWE-IP65 (with rechargeable battery)**	**KWE15-IP68**
Weighing platform	220 x 180 mm	220 x 180 mm
Dimensions	230 x 290 x 115 mm	230 x 290 x 115 mm
Dead Weight	4.1 kg	3.8 kg
Connecting cable	1.00 m	2.00 m
Operating Temperature	-10°C to + 40°C	-10°C to + 40°C
Internal Protection	IP65	IP68
Power Supply	230V mains and rechargeable battery 6,3V (6V4Ah)	230V mains (refitting with rechargeable battery not possible)
Display	Large LCD-Display with second display on backside, height of digit 20mm	
Casing	Stable stainless steel housing	
Weighing platform	stainless steel	

Integrated Piece Counting

Free programmable high and low values for check weighing with acoustical support

4 different graduations selectable

8. Declaration of Conformity

CE

Manufacturers Declaration of Conformity

This product where manufactured in accordance with the harmonised European Standards.
It corresponds to the regulations of below listed EC-directives:

- EMC Directive 2014/30/EU
- Low Voltage Directive 2014/35/EU
- RoHS Directive 2011/65/EG

as appropriate amended.

This declaration loses their validity, in case modifications on the scales are made without manufactures approval.

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