OCTOGON

MANUAL

LWLD

PRICE COMPUTING RETAIL SCALE

Installation and user manual



Document	Version	Date	Applies to
Installation and user manual	V00x	11/2026	LWLD

This manual describes the LWLD price computing retail scale with swivel display column: safety, installation, battery, keys and displays, zero-setting and tare, selling with unit price and item memory, totalization, change calculation, settings menu and error messages.

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Contents

1 About this manual ... 2
1.1 Symbols ... 2
2 Safety, warranty and disposal ... 3
2.1 Safety notes ... 3
2.2 Warranty ... 3
2.3 Guidelines for proper disposal ... 3
3 Product description ... 4
3.1 Design and scope of delivery ... 4
3.2 Functions ... 4
3.3 Versions ... 4
3.4 Options on request ... 4
4 Technical specifications ... 5
5 Dimensions ... 6
6 Installation and commissioning ... 6
6.1 Positioning ... 6
6.2 Starting up and powering off ... 6
7 Battery use and recharging ... 7
8 Keys, displays and symbols ... 7
8.1 Front panel (operator's side) ... 7
8.2 Keys ... 7
8.3 Symbol functions ... 8
9 Zero-setting and taring ... 8
9.1 Zero-setting the scale (semi-automatic) ... 8
9.2 Autozeroing upon start-up ... 8
9.3 Taring the scale (semi-automatic subtractive tare) ... 8
10 Operation ... 8
10.1 Changing the price unit ... 8
10.2 Setting the price ... 8
10.3 Price storage and call-up (PLU) ... 8
10.4 Automatic deletion of price and tare ... 9
10.5 Totalizing and printing individual amounts ... 9
10.6 Displaying, printing and zeroing the total amount ... 9
10.7 Calculating change due ... 9
11 Display backlight and auto power off ... 9
11.1 Display backlight ... 9
11.2 Scale auto power off ... 10
12 Settings menu ... 11
13 Error messages ... 11
14 Directives and standards ... 12

1 About this manual

The LWLD is a price computing scale for retail sale. It shows weight, unit price and amount at the same time – on the operator's side and on the swivel display column for the purchaser. It works on its internal rechargeable battery or connected to the supplied battery charger.

1.1 Symbols

Notice	Meaning
Caution	Risk of electric shock, or: this operation must be performed by skilled personnel.
Important	Pay particular attention to the following instructions.
Note	Further information.

Display texts are shown in bold, for example **totAL**; keys in capital letters, for example TARE.

2 Safety, warranty and disposal

2.1 Safety notes

– Place the scale in a dry place, away from sources of heat and from direct sunlight and out of the way of draughts and air currents.
– Keep the scale out of contact with rain, do not wash it by using pressurised jets of water and do not immerse it in water.
– Clean all parts of the scale with a damp cloth. For separate cleaning of the weighing tray, remove the tray and clean it with appropriate stainless steel cleaning products.
– Avoid leaving objects on the weighing tray when the scale is not being used or when it is switched off.
– Place all material for weighing on the weighing tray with due care: dynamic loads can damage the internal weight sensor.
– If **- - oL - -** is shown, remove the load from the scale immediately to avoid overloading the weight sensor (chapter 13).

2.2 Warranty

The general terms and conditions contained in the sales documentation shall apply.

2.3 Guidelines for proper disposal

The crossed-out wheeled bin symbol on the product or packaging indicates that:

– This is electrical/electronic equipment and cannot be disposed of as municipal solid waste, but must be delivered to a recycling center.
– Improper use or disposal can pollute the environment or damage human health.
– Non-compliance with these guidelines will be penalized in accordance with the regulations in force in the country of destination.
– It is recommended to dispose of the packing and packaging as required by local regulations.

3 Product description

3.1 Design and scope of delivery

– Multirange scale, class III, 3000 divisions per partial range (OIML R76:2006).
– Stainless steel loading plate, 225 × 295 mm.
– Backlit LCD displays on both sides, 3 × 6-digit, 20 mm digit height; the purchaser's side on a swivel display column (height 535 mm).
– Waterproof keyboard with 20 keys.
– Bubble level and adjustable feet.
– Internal battery 6 V, 4 Ah capacity, operating time 70 h; external battery charger 100 ... 240 VAC included.
– RS232 serial port for an external printer.

3.2 Functions

– Simultaneous display of weight, unit price and amount.
– Item memory: 100 storable items (PLU) with unit price.
– Price unit €/kg or €/100 g.
– Automatic cancellation of price and tare (can be disabled).
– Totalization of partial amounts; automatic change calculation.
– Optional non-fiscal receipt via the external thermal printer: customizable header, date, time, net weight, unit price, amount per item, total amount.

3.3 Versions

Multirange scale: the smaller division applies in the first weighing range (symbol C1), the larger division in the second weighing range (symbol C2).

Capacity (kg)	Weighing range 1 (C1)	Weighing range 2 (C2)	Net weight (kg)
3 / 6	0 ... 3 kg, e = 1 g	3 ... 6 kg, e = 2 g	4.5
6 / 15	0 ... 6 kg, e = 2 g	6 ... 15 kg, e = 5 g	4.5
15 / 30	0 ... 15 kg, e = 5 g	15 ... 30 kg, e = 10 g	4.5

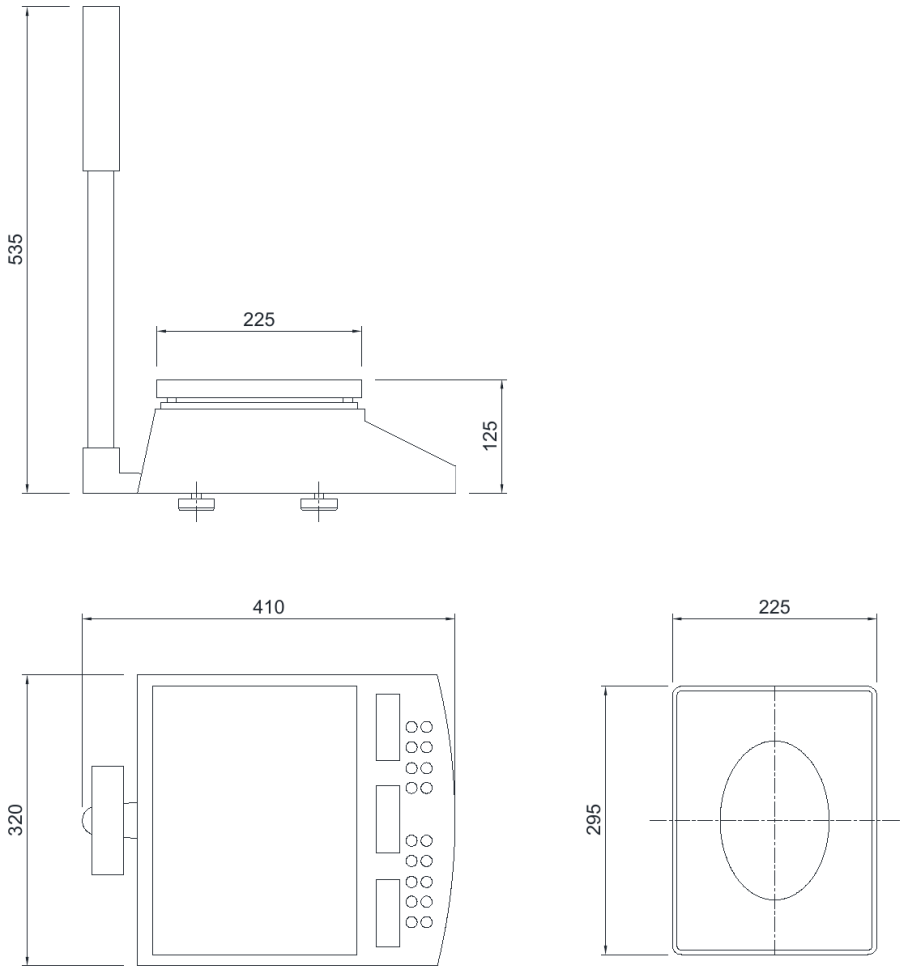
3.4 Options on request

Option	Description
Stainless steel deep tray	Stainless steel deep tray; dimensions 230 × 300 × 40 mm
Rechargeable battery	Rechargeable battery 6 V, 4.5 Ah capacity
Thermal printer	Desktop thermal printer (connection to RS232)

4 Technical specifications

Item	Value
Capacity (multirange)	3/6 · 6/15 · 15/30 kg
Accuracy class	III, 3000 divisions per partial range (OIML R76:2006)
Linearity	< 0.01 % full scale
Display resolution	3000
Unit of measure	kg
Loading plate	Stainless steel, 225 × 295 mm
Display	backlit LCD on both sides, 3 × 6-digit, 20 mm height
Display column	swivel, height 535 mm
Keyboard	20 keys, waterproof
Levelling	Bubble level and adjustable feet
Net weight	4.5 kg
Serial port	RS232, for external printer
Baud rate	2400, 4800, 9600, 19200 bit/s
Power supply	100 … 240 VAC
Internal battery	6 V, 4 Ah capacity
Operating time	70 h
Battery charger	external, 100 … 240 VAC, included
Power-off	automatic
Humidity	< 85 %, condensate free
Storage temperature	–10 … +50 °C
Working temperature	–10 … +40 °C
Calibration	Calibration report on request
Compliance	CE, UKCA; conformity assessment (initial verification) on request

5 Dimensions



Scale: side view (top) and top view (bottom left) · stainless steel loading plate (bottom right). Dimensions in mm.

6 Installation and commissioning

6.1 Positioning

– Stability: place the scale on a highly stable and flat surface. Adjust the feet so that all 4 of them are resting on the surface on which the scale is placed. To test the stability, place a load corresponding to the maximum recommended weight on the scale tray and check the scale's stability under these conditions.

– Levelling: for correct operation the scale must be levelled correctly. Adjust the 4 feet until the level bubble on the left of the keypad is in the middle of the black circle.

6.2 Starting up and powering off

Important Before switching the scale on for the first time, charge it continuously for 18 hours with the supplied battery charger.

The scale comes with an external power adapter/battery charger and can be used both while it is disconnected from and while it is connected to the power adapter.

– To switch the scale on, press and hold the POWER on/off button under the scale in the 'on' position for at least 2 seconds.

– To switch the scale off, press and hold the POWER on/off button under the scale in the 'off' position for at least 2 seconds.

When switched on, the scale sets itself to zero automatically (section 9.2).

7 Battery use and recharging

– The internal rechargeable battery provides an operating time of approximately 70 hours (with display backlight function deactivated).

– When the scale is used without the battery charger and the battery is nearly out of charge, the battery symbol lights up: charge the battery as soon as possible. From this point onwards, the scale displays **bAt-Lo** every 5 minutes.

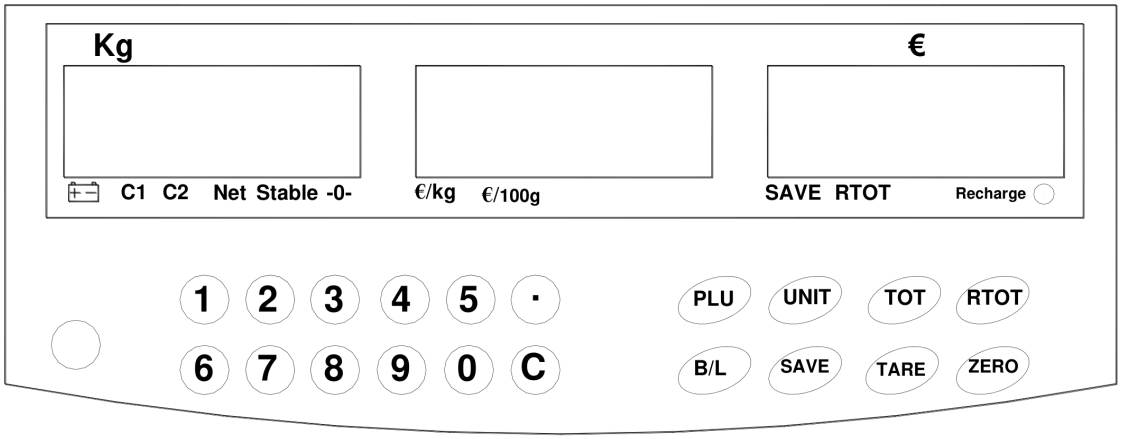
– Should charging not take place, the scale powers off automatically after 30 minutes of continuous use in order to preserve the battery. It is therefore recommended to charge the battery immediately in such cases.

– Charging time for a completely discharged battery is approximately 6 hours.

– Disable the display backlight when the scale runs on battery power only: this keeps energy consumption low and the battery operates for a longer time (section 11.1).

8 Keys, displays and symbols

8.1 Front panel (operator's side)



Front panel with the kg display (left), unit price display (centre), € display (right) and the keypad.

The swivel display column on the purchaser's side shows the same three values one below the other: weight (kg), unit price (€/kg or €/100 g) and amount (€) with the associated symbols.

8.2 Keys

Key	Function
0 ... 9	Setting the price; selecting the memory locations of the unit prices (PLU)
C	Deleting set data
.	Inserting 2 zero digits after each other while setting a unit price
PLU	Storing unit prices (memory locations 00 ... 99) and calling them up at a later stage
UNIT	Changing the price unit between €/kg (per kilo) and €/100 g (per hectogram)
TOT	Totalizing stored amounts and printing
RTOT	Displaying the total accumulated amount and the change due to the customer
B/L	Setting the display backlight function
SAVE	Enabling or disabling the unit price and tare memory function (automatic deletion off/on)
TARE	Performing tare (display of net weight, Net indicator switched on)
ZERO	Setting the scale to zero

8.3 Symbol functions

Symbol	Meaning
RTOT	The display is showing the total accumulated amount and/or the change due to the customer.
SAVE	Automatic deletion of unit price and tare is disabled.
€/100 g	Current active price unit per hectogram
€/kg	Current active price unit per kilogram
→0←	The display shows 0 and the deviation from 0 is ≤ ±0.25 divisions.
Stable	The displayed weight is stable.
Net	The displayed weight is a net weight (semi-automatic tare entered).
Battery symbol	Battery charge level is low
C1	The displayed value pertains to the first weighing range.
C2	The displayed value pertains to the second weighing range.

9 Zero-setting and taring

9.1 Zero-setting the scale (semi-automatic)

If there are no items on the weighing tray and the kg display indicates a weight value other than zero, press ZERO while the weight is being displayed to set the current weight to zero. If the current weight is ≥ ±2 % of the capacity (Max.), zero-setting is not allowed and the error message **Err4** is shown.

When zero is displayed, the →0← symbol indicates that the deviation from 0 is ≤ ±0.25 divisions.

Important Zeroing devices do not alter the maximum capacity (Max.) of the instrument. A gross weight value ≤ ±2 % of the capacity (Max.) can be set to zero.

9.2 Autozeroing upon start-up

Autozeroing upon start-up is enabled only if the kg display indicates a weight value ≤ 10 % of the capacity (Max.); in such cases the current weight value is set to zero. If **Err4** appears upon start-up, the scale is loaded with a weight exceeding 10 % of the capacity (Max.) and autozeroing is not allowed: remove the item from the scale, turn the scale off and then back on.

9.3 Taring the scale (semi-automatic subtractive tare)

Place the object to be tared on the scale and wait for the Stable symbol to appear. Press TARE: the display shows the net weight starting from 0, and the Net indicator confirms that a tare has been set. To return to gross weight display and delete the current tare value, remove the item (tare) from the scale and press TARE once again.

Important Tare devices alter the maximum capacity (Max.) of the instrument. Any weight value indicated as stable can be tared, provided that the condition T ≤ – Max. is verified.

10 Operation

10.1 Changing the price unit

Press UNIT to change the price unit from €/kg to €/100 g. The indicator for the selected unit is shown on the central display.

10.2 Setting the price

Place the product on the weighing tray. Wait for the Stable indicator to light up and set the unit price in €/kg or €/100 g with the numerical keys 0 ... 9 and the . key if necessary (inserts 2 zero digits). The kg display shows the weight of the product, the central display the unit price and the € display the amount payable for the weighed product. Press C to delete the entered unit price and set a new price.

10.3 Price storage and call-up (PLU)

Unit prices are stored in the memory locations 00 ... 99.

– Storing: remove any items from the scale and enter the unit price with the numerical keys 0 ... 9 (and the . key if necessary). Press and hold PLU for around 3 seconds until **SAvE PoS PS 0** is displayed. Enter the two-digit number of the memory location (for example 01 for location 1, 98 for location 98). **PLU SAvEd** appears temporarily to confirm that the data has been saved.

– Calling up: press PLU momentarily until **LoAd PoS PS 0** appears. Enter the number of the memory location (00 ... 99). The price is called up from memory and appears on the central display.

10.4 Automatic deletion of price and tare

This function automatically deletes the price set and the tare entered (net weight display with Net indicator on) each time the scale passes through the zero position.

– To disable the function, press SAVE and ensure that the SAVE indicator on the € display is on.

– To activate the function, press SAVE and ensure that the SAVE indicator on the € display is off.

10.5 Totalizing and printing individual amounts

Note Only possible if the external printer (option on request) is available for use.

Several products are weighed one after the other according to their unit price; the total amount is displayed and printed. The totalization and printout of a weighing can only be carried out:

– for stable weights (Stable indicator on),

– for weights ≥ 20 divisions (minimum weight),

– for a subsequent weighing only after the weight has passed through the zero position.

Step	Action	Display
1	Place the first product on the scale, set the unit price or call it up. The € display shows the amount.	–
2	Press TOT: the amount is totalized (and printed).	**totAL**, then total
3	Remove the product, place the next product, set or call up the unit price, press TOT.	**totAL**, then sum of all amounts
4	Repeat for the remaining products for the same purchaser.	–

10.6 Displaying, printing and zeroing the total amount

When the scale is not loaded (zero indicator on), press RTOT: the kg display shows the total amount accumulated until that moment. Press ZERO to exit without deleting the accumulated total; press TARE to delete the total and exit. With the printer connected, pressing RTOT and then TARE also prints the total amount.

– The total accumulated value is deleted automatically when the scale is switched off.

– The highest totalized value is 999999. When this limit is reached, the total must be set to zero.

10.7 Calculating change due

The change due calculation function calculates the change due to the purchaser automatically, with or without totalization. After a totalizing operation or after a weighing with a price entered, press RTOT to view the amount due in the kg display. Enter the amount received from the client with the numerical keys 0 ... 9 (it appears in the central display); the € display shows the change due. Press ZERO to exit without deleting the memory; press TARE to delete the memory and exit.

11 Display backlight and auto power off

11.1 Display backlight

Setting	Meaning
on	Display backlight permanently enabled
oFF	Display backlight permanently disabled – recommended when running on battery power only
AUto	Display backlight only for weights ≥ 20 divisions (minimum weight)

Press B/L, select the desired operation mode with SAVE and press TARE to confirm and exit.

11.2 Scale auto power off

Setting	Meaning
0	Function disabled
1	Auto power off if idle for 1 minute
5	Auto power off if idle for 5 minutes
30	Auto power off if idle for 30 minutes

Press and momentarily hold RTOT during the initial auto reset phase upon start-up. The display shows **Auto oFF 0**. Select the desired mode 0, 1, 5 or 30 with SAVE and press TARE to confirm and exit.

12 Settings menu

Caution This operation must be performed by skilled personnel.

Press and momentarily hold TARE during the initial auto reset phase when the scale is switched on. The display shows **Pn**. Enter the password 0000 with the numerical keys; the display shows **Pn - - - -**. Press TARE: the display shows **CAL F0**.

- SAVE: select one of the submenus **CAL F0** ... **CAL F22**.
- TARE: enter the submenu or select the parameters within the submenu.
- SAVE or numerical keys 0 ... 9: select the parameter setting.
- TARE (repeatedly): confirm the settings and return to the submenu display.
- ZERO: exit the settings menu and return to the scale function.

Submenu	Function	Settings
CAL F0, **CAL F1**	disabled	–
CAL F2	Default price unit	**kiLoS** kilogram (default); **100** 100 g
CAL F3, **CAL F4**	disabled	–
CAL F5	Number of decimal places for unit price and amount	0 (zero); 0.0 (one); 0.00 (two, default); 0.000 (three); 0.0000 (four)
CAL F6 ... **CAL F8**	disabled	–
CAL F9	Display the internal points of the A/D converter	TARE shows the points for the weight loaded; ZERO sets the value to zero; TARE exits the step
CAL F10	disabled	–
CAL F11	fixed – leave set to:	**HALF KEY OFF**, **QUARTR KEY OFF**, **1OO gr KEY OFF**, **UNIT KEY On**
CAL F12	Enable printer	**rS-232 tyPE Printr** enabled (default); **rS-232 tyPE Off** disabled
CAL F13	Printer type	**Printr tyPE Off** (default); **Printr tyPE Eltron**; **Printr tyPE ZebrL**
CAL F14	RS232 transmission rate	**bAUd rAtE 2400**; **bAUd rAtE 4800**; **bAUd rAtE 9600** (default); **bAUd rAtE 19200**
CAL F15	RS232 output string type	**rS-232 modE 8n1** (default); **rS-232 modE 7e1**; **rS-232 modE 7o1**
CAL F16	fixed – leave set to:	**rS-232 tyPE Off** (default)
CAL F17	fixed – leave set to:	**PErCnt tArE off** (default)
CAL F18	fixed – leave set to:	**LAbEL FormAt 0** (default)
CAL F19	disabled	–
CAL F20	fixed – leave set to:	**SCALE modEL 0** (default)
CAL F21	Print format of the connected printer	**SEnd Forn Big**: large characters, compact printouts (one line per item), header insertion available (default); **SEnd Forn Small**: small characters, compact printouts, header insertion available; **SEnd Forn Off**: large characters, extended printouts (subtotal updated after each item)
CAL F22	disabled	–

After changing a printer parameter, switch the printer off and on again to implement the change.

13 Error messages

Display	Meaning
- - oL - -	With an acoustic signal: the capacity has been exceeded by 9 divisions. Remove the load from the scale immediately to avoid overloading the weight sensor.
bAt-Lo	Battery charge level low: connect the power supply cord to the wall socket.
Err4	Zeroing attempted for a weight value exceeding 2 % of the capacity (Max.) – only a gross weight value ≤ ±2 % of the capacity can be set to zero. Upon start-up: the scale was loaded with a weight exceeding 10 % of the capacity, autozeroing is not allowed (section 9.2).
Err5	Error in keypad connection
Err6	The load cell (internal weight sensor) is either damaged or disconnected.

14 Directives and standards

According to the declarations of conformity (EU and UKCA) for the scale:

Mark applied	Legislation	Standards
CE	2014/30/EU EMC Directive	EN 55032: 2015; EN 61000-3-2: 2014; EN 61000-3-3: 2013; EN 55024: 2010 + A1: 2015
CE M (only if the "M" mark is applied)	2014/31/EU NAWI Directive	EN 45501:2015; OIML R76-1:2006
UKCA	Electromagnetic Compatibility Regulations 2016	BS EN 55032: 2015; BS EN 61000-3-2: 2014; BS EN 61000-3-3: 2013; BS EN 55024: 2010 + A1: 2015

The declarations of conformity are available from octogon on request.