



USER MANUAL ELECTRONIC SCALE LSW

Version: 1.0 EN

Based on the September 2014 English version

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1. Introduction

Congratulations on your purchase of a high-quality product from the LILASCALE brand.

The user manual is an important part of this product and contains important tips on safety of use, conditions of use, and necessary information regarding its use and disposal at the end of its life.



Important information regarding the safety of use:

The safety of use is conditioned by the user's behaviour of the rules and precautions described below.

Before using the product for the first time, each user should read all instructions for operation and safety of operation.

Users of the product must have easy access to this manual at all times so that they can always read it in case of doubt.

Each user is obliged to use the product only in a manner consistent with its intended purpose, as described in this manual.

If you hand over the product to another user, you must hand over all documentation relating to the product (i.e. the "Operating Manual" and the "EC Declaration of Conformity").

2. Limitation of Liability.

The data and technical information contained in this instruction manual regarding the installation, connection and operation of the device are in accordance with the current state of knowledge and experience of the importer at the time of submission of the manual for printing.

The information contained in this user manual cannot be the basis for any claims directed against the importer or the manufacturer.

The manufacturer and the importer shall not be liable for any damage resulting from:

- **Failure to comply with the conditions described in this user manual**
- **Use of a product not for its intended purpose**
- **Performing modifications to the device that are not in accordance with its documentation**
- **Unprofessional repairs, performed by persons not authorized by the Manufacturer/Importer**
- **Use of spare parts that do not comply with the device documentation.**

2. Safety of use

This LILASCALE product has been manufactured in accordance with quality standards, in the process it complies with the ISO 9001:2015 standard, it has been marked with the mark:



and meets the safety requirements set out in the relevant harmonized regulations in force in the European Union, listed in the document attached to the product: **"EC DECLARATION of CONFORMITY"**.

Important:

The document **"EC DECLARATION OF CONFORMITY"** must be kept in order to present the request of the competent bodies at the time of any inspection.



The measuring range of the measuring set depends on the version and its limit parameters are specified on the nameplate.

Before starting weighing, the user should check whether the balance parameters allow the expected weight of the product to be weighed.



It is not acceptable to use the scale outside of the specified restrictions, or in a manner other than as described in this manual.



Safe Use Conditions and Environmental Conditions:

- The device is intended for indoor use only, with a range of temperatures and humidity conditions specified in the "Technical data" section.
- LSW scales must not be used in flood hazards with water or other liquids.
- Do not use LSW in potentially explosive atmospheres where there are erased hazards with the possibility of flammable gases, vapours, flammable dusts or chemically aggressive substances, or conditions that threaten the occurrence of electromagnetic, radiation, thermal, ultraviolet radiation, etc.
- LSW scales should not be used in conditions of exposure to direct sunlight, vibrations, rapid changes in ambient temperature, in the immediate vicinity of air conditioning and ventilation ventilation.
- Do not disassemble the appliance yourself, and if the scale is damaged, contact a representative of an authorized LILASCALE service center.
- Voltage fluctuations in the supply network should not exceed $\pm 10\%$, and transient overvoltages must not be higher than those specified for category II installations.

- **When disconnecting the balance power supply from the AC outlet, do not pull on the cable connecting the power supply to the scale. Doing so may cause damage that threatens electric shock!**

3. Scope of application

LSW series scales are two-pitch legalized class III scales.

Scales from the LSW series, as measuring instruments subject to legal metrological control, meet the requirements set out in Article 8.1 of the Act: **Law on Measures** of 11 May 2001 (Journal of Laws of 22 June 2001) and can be used in the following range of applications:

- In the protection of health, life and the environment
- In the protection of security and public order
- In the protection of consumer rights
- In the collection of fees, taxes and non-taxable budgetary receivables and the determination of discounts, contractual penalties, remuneration and damages, as well as in the collection and determination of similar receivables and benefits
- When performing customs control
- In trade

The LSW scale guarantees users reliable weight measurements in professional applications such as retail, restaurants, catering outlets, catering, and wherever precise weight measurements are crucial.

Due to the conditions that may occur during the operation of the balance and the possibility of damage due to operating errors that exceed the limit parameters specified in the specification (vibration, overload, mechanical shock, etc.), it is advisable that the user perform periodic weighing tests using a standard of known weight.

In order to ensure the continuity of the validity of the device, the user should periodically subject it to the Legalization process of re-legalization carried out by the District Offices of Measures. We would like to point out that before subjecting the scales to the Re-Legalization process, it is advisable to hand over the scale to an authorized LILASCALE service center in order to check it for the correctness of the indications, technical efficiency and legibility of the required markings.

4. Specifications

Specification of technical data:

Model:	LSW-06	LSW-15	LSW-30
Display:	LCD – Dual (operator and customer) 5 digits, 9 indication status markers		
Measuring range:	3/6kg	6/15kg	15/30kg
Measuring Plot:	1/2g	2/5g	5/10g
Accuracy class:	III. - legalized		
AD Converter:	$\Sigma - \Delta$ converter; 24BIT		
A/D converter conversion speed:	10 times per second		
Number of reading plots:	n=3000		
Internal Resolution:	1/6000		
Keyboard:	Keys: UNIT, TARE, ZERO, ON/OFF		
Display:	LCD – Dual (operator and customer) 5 digits, indication status markers		
Additional features:	Changing the kg/g indication unit (UNIT key)		
Communication interface:	RS232C		
Powered:	Dry Battery: 1.5V; type D (R20/LR20) x 4pcs (6V), AC Adapter: AC: 100~240V - 50/60HZ/DC 9V 300mA		
Approximate washing time when powered by alkaline batteries:	With display backlight on: approx: 50h With the display backlight off: approx. 1000h		
Housing:	Plastic		
A pan:	Stainless Steel (304)		
Dimensions:	(W)230mm x (D)196mm		
Product dimensions:	(W)230mm x (D)285mm x (H)112mm		
Operating Temperature Range:	-10~40°C		
Operating Environment Humidity:	≤ 85% (non-condensed)		
Product Weight:	1.5kg		
Storage Temperature:	-25~55°C		

5. Scope of delivery

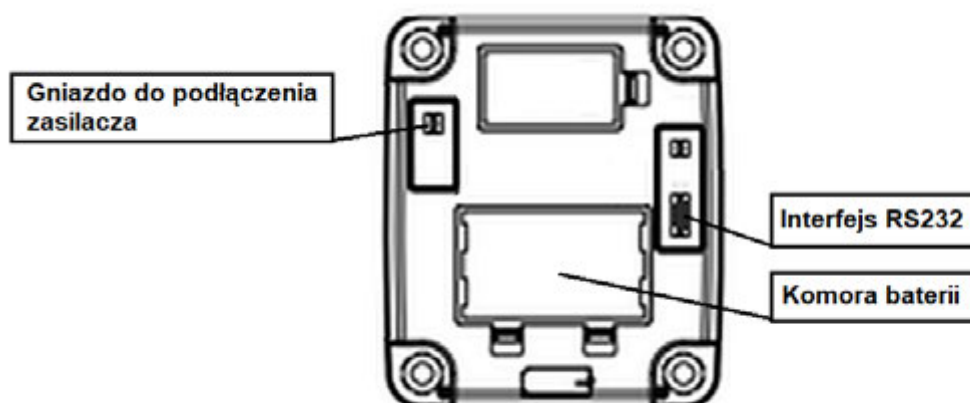
The scope of delivery includes:

- LILASCALE LSW scale with a measuring range depending on the specification of the order
- AC adapter
- Optional Additional Equipment: Communication Cable (Applies to Scales with Communication Interface)
- Documentation: Operating manual and document: "EC DECLARATION OF CONFORMITY"
- Transport Packaging

6. LSW Scale Description

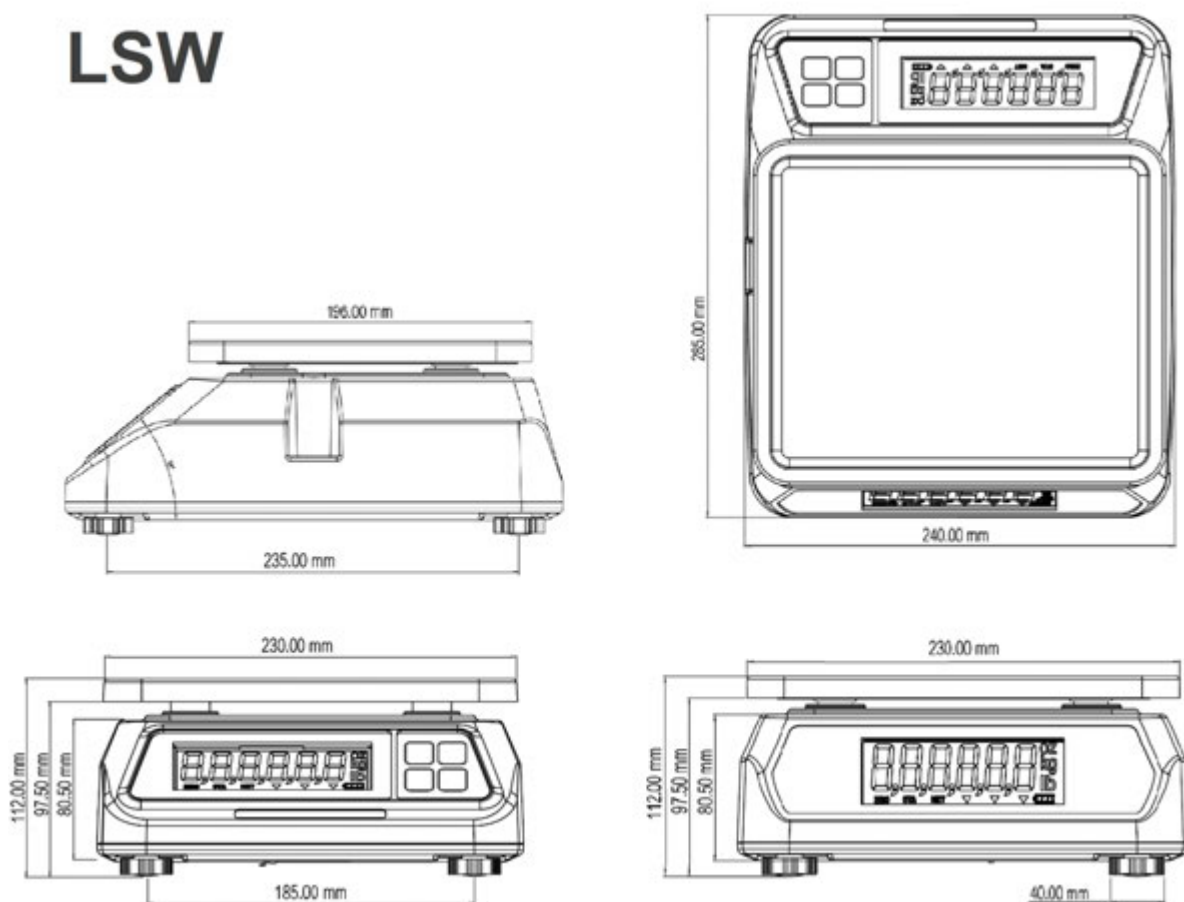


LSW Scale View

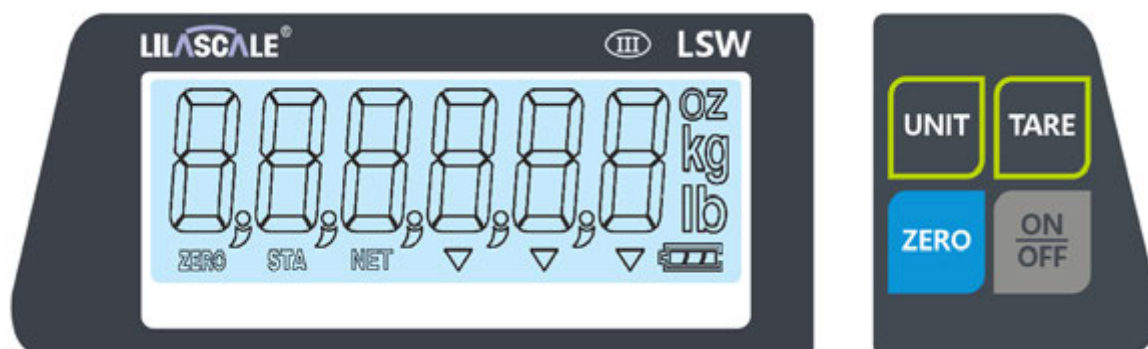


LSW Scale View Below

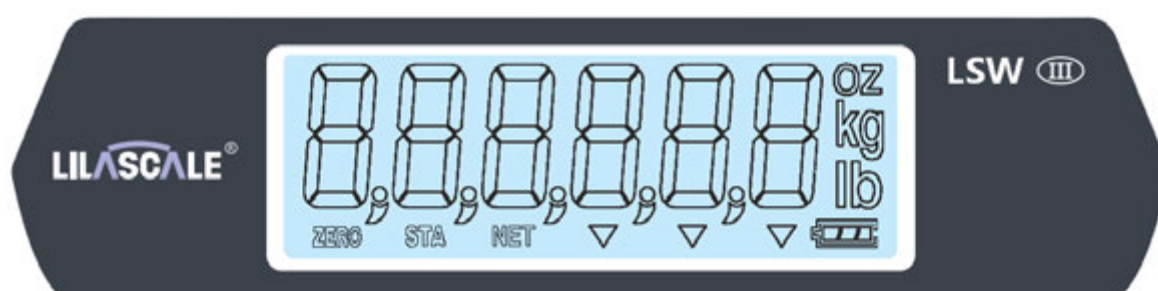
LSW



LSW Scale Dimensions



LSW Scale Operator Display and Keypad View



LSW Scale Customer Display View

Description of the markers on the reading panel:

Tag:	Description
	Battery Energy Indicator: When the battery capacity indicator displays only one bar, it means that the voltage of the battery set is too low and needs to be replaced. We recommend using 4 pcs. LR20 / SIZE-D alkaline batteries, with a voltage of 1.5V.
ZERO	Zero Indication Marker (0.000kg): The ZERO mark will not be visible if, despite the fact that the balance pan is empty, the display indicates a different from zero. To reset the indication on the display, press the [ZERO] key and when the ZERO mark is visible, you can proceed to the weighing process.
WHAT	Indication stability marker: The STA marker is visible when the indication on the display stabilizes.
NET	TARA Function Tag: The NET tag is visible when the TARA function is used.

Keyboard Function Description:

Key	Features
	On/off button for the meter. Press this button to turn the scale ON or OFF.
	Indication unit selection function button: kg → g → kg → g... To enter the display backlight brightness setting mode, hold this button for <u>more than 5 seconds</u> in weighing mode.
	TARA function button. Press this button in weighing mode to tare the weight of the weighed package/container in which the product will be weighed. Pressing this button in parameter setting mode allows you to change the value of the parameter to be set
	RESET function button. If in weighing mode, despite the fact that the balance pan is empty, the indication on the display is different from zero, press this button to reset the indication.

7. Scale Handling

7.1. Turning on the scale

To turn on the scale, press  the (When the scale was previously off) button.

The course of the scale switch-on operation:

Markers: (● Visible continuously; ○ Flashing)

1: ZERO Operation	2: WHAT Indication	3: NET Tags	4: S1 Tags	5: S2 Unit	6: S3 Remarks
		1 2 3 4 5 6			
(1) Press the [ON/FF] key					Connect the scale to the AC adapter before turning it on. This is not necessary if the scale is battery-powered.
(2) Start the launch test.	DS.-100 Born. 3.xx 000000 111111 222222 ----- 888888 999999				Type designation display Display of the software version number Display Test: Display of consecutive indications from 000000 to 999999
(3) Launch test completed. Switch to weighing mode.	0.000	● ●		kg	Weighing Mode – The scale is ready to go.

Notes:

1) To interrupt the control test and immediately enter weighing mode, press the [ZERO] button during the control test.

2) If the battery level indicator displays only one field, it means that the voltage of the internal battery is too low and the power battery set needs to be replaced (Please use R20P alkaline batteries with size D and 1.5V).

7.2. Turning off the scale

To turn off the scale, press  the (When the scale was previously turned on) button.

The course of the scale switch-on operation:

Tags: (● Solid light; ○ Flashing)

1: ZERO Operation	2: WHAT Indication	3: NET Tags	4: S1 Tags	5: S2 Unit	6: S3 Remarks
		1 2 3 4 5 6			
Scale is on (1) Press the [ON/FF] key (2) Unplug the scale's power supply from the power outlet	0.000	● ●		kg	Weighing Mode When not in use, disconnect the appliance from the AC 230V mains.

7.3. Reset Indications

During weighing, there may be a situation where, despite the fact that there is no load, the displayed value deviates from zero. The **ZERO** marker indicating a zero indication value will then not be visible.

The reasons for this may be changes in the conditions in which weighing takes place, leaving the load on the pan for a longer time than required for proper weighing of the product, etc. If this occurs, use the manual reset function.

To manually reset the display indications, press the  button. The display will indicate a zero value and the **ZERO** indicator will light up to indicate a zero indication value.

The manual reset function will only work if the indicated value is within the range of this function (10% of the maximum load).

Manual Reset Operation Procedure:

Tags: (● Solid light; ○ Flashing)

	1: ZERO	2: WHAT	3: NET	4: S1	5: S2	6: S3		
Operation	Indication	Tags 1 2 3 4 5 6	Unit	Remarks				
Scale is on	0.000	● ●	kg	Weighing mode. In order for zeroed readings to be possible, the indicated value must be less than 10% of the maximum measuring range.				
(1) Place the load on the balance pan (e.g., 0.500 kg) that will simulate the indication deviation from zero.	0,050	●	kg					
(2) Press the [ZERO] button	0.000	● ●	kg					
(3) Remove the load from the pan.	-0,050	●	kg					
(4) Press the [ZERO] button	0.000	● ●	kg					

Notes:

1) If the current value of the indication exceeds 10% of the maximum measuring range, the zeroing operation will not be possible.

7.4. Selection of the unit of mass indication (kg/g)

The weight allows you to select the unit in which the indications will be displayed: kg or g. The indication unit can be selected using the  button.

Progress of the operation of changing the units of mass indication

Tags: (● Solid light; ○ Flashing)

1: ZERO Operation	2: WHAT	3: NET Indication	4: S1 Tags 1 2 3 4 5 6						5: S2 Unit	6: S3 Remarks
Scale is on		0.000	●	●					kg	Weighing Mode
(1) Place the item to be weighed on the weighing pan (e.g. weighing 4,270 kg)		4.270		●					kg	
(2) To change the unit of indication, press the [UNIT] key		4270		●					g	Display of indications in unit g.
(3) To change the unit of indication, press the [UNIT] key		4.270		●					kg	Back to indications in kg
(4) Take off the item to be weighed from the pan		0.000	●	●					kg	
(5) Press the [ZERO] key		0.000	●	●					kg	

7.5. Tare function

Place the load you want to tare on the balance pan.

When the STA **stability marker appears** to indicate the stability of the indication, press  the button.

The display will indicate a zero weight value (**0.000kg**) and a **NET tag** will appear to indicate that the value of the weighted tare has been remembered. The weight values indicated from this point on will be indications of the net weight.

To delete the stored tare value from the balance memory after weighing, remove the entire load from the pan and press the  button.

The **NET tag** will no longer be visible and the display will indicate a zero weight value. From now on, the indicated weight values will be indications of the total weight placed on the pan.

The course of the tare operation:

Tags: (● Solid light; ○ Flashing)

1: ZERO Operation	2: WHAT	3: NET Indication	4: S1 Tags 1 2 3 4 5 6						5: S2 Unit	6: S3 Remarks
Scale is on		0.000	●	●					kg	Weighing mode.
(1) Place the load on the weighing pan (e.g. 2,500 kg)		2,500		●					kg	It must be a weight of less than the permissible tare range T.
(2) Press the [TARE] button		0.000	●	●					kg	
(3) Remove the load from the pan		-2,500		●					kg	
(4) Press the [TARE] button		0.000	●	●					kg	

Notes:

- 1) If the weight placed exceeds the permissible zeroing range, pressing the tare key will not perform the tare operation.
- 2) The tare function acts as a "multiple, summed tare rate" within the range specified on the scale rating plate by the parameter $T = \dots \text{ kg}$.

7.6. Piece Counting Process

The scale is equipped with an additional function that allows you to count objects of equal weight.

Before counting pieces, it is necessary to determine and remember the weight for the standard number of items to be counted.

Once you have memorized the standard weight of the number of items, you will be able to start counting items of unknown quantity by weighing the unknown quantity. The indications on the scale display will be presented directly, as a number of pieces (PCS unit of indication).

The course of the piece counting operation:

Tags: (● Solid light; ○ Flashing)													
1: ZERO		2: WHAT		3: NET		4: S1				5: S2		6: S3	
Operation		Indication	Tags						Unit	Remarks			
		Weight	1	2	3	4	5	6					
Scale is on		0.000	●	●					kg	Weighing Mode			
(1) Place on the balance pan a standard number of equal items to be counted, e.g. 20 pcs.		0,122		●					kg				
(2) Press and hold the [TARE] key for 5 seconds		C. 10		●		●			PCS	The first proposed quantity for the reference sample will be displayed: 10 pcs.			
(3) Press the [TARE] key once		C. 20		●		●			PCS	The next proposed number of pieces for the sample will be displayed: 20 pcs.			
										Successive presses of the [TARE] key allow you to select the following quantities for the master sample: 10, 20, 30, 40, 50, 100, 200, 300, 400, 500			
(4) Press the [UNIT] key once		P. 20		●		●			PCS	Once the quantity of pieces for the sample is approved, the piece counting process can begin			
Place the items you want to count on the scale platform (e.g. weighing 1,220 kg)		P. 200		●		●			PCS	The value of the counter indication (200 pcs) will be displayed			
(6) Press the [UNIT] key once		1,120		●					kg	Back to Weighing Mode			
(7) Remove items placed on the scale pan		0.000	●	●					kg	The weight indication will return to zero			

8. User Menu - Weight Settings

The functionality of the balance can be configured according to the user's requirements by adjusting the parameter value settings for each set of SPEC settings.

How to enter the user function settings menu:

- Press and hold the [ZERO] key while pressing the [UNIT] key three times:



SPEC No.	BIT 3	BIT 2	BIT 1	BIT 0
00	To set the time for the display backlight to turn off automatically:		Setting the automatic power saving function:	Setting the Auto Off Function:
Default set:	00: 10 seconds		0: Entering Power Saving Mode after 60 seconds	0: Auto Off Function Inactive
1110	01: 20 seconds		1: Function Disabled	1: Automatic shutdown active Shutdown will occur three minutes after the last action
	10: 30 seconds			
	11: Do not turn off (backlight permanently on)			
	<i>Note:</i> When the backlight brightness is set to "0", the backlight will not turn on automatically.			
01	Setting the display backlight function:	RS 232 interface baud rate settings:		
Default set:	0: Enabled	000: Port Closed,	001: 1200, 010: 2400, 011: 4800	100: 9600
0100	1: Off	101: 19200	110: 38400	111: 57600
02	RS-232/USB communication mode setting:		Setting permission to send data over the RS-232 port when the ground indication is unstable.	Format setting data sent via the RS-232 port:
Default set:	00: General Command Response Mode		0: Enabled	0: Standard
1000	01: Simple Command Response Mode (A)		1: Off	1: Special
	10: PRT/ECR Communication Mode		Function settings available for the [TARE/↑] button (In Weighing Mode)	
	11: Continuous Weight Data Transfer Mode		00: Do not use in legal scales	
			01: Switching Weight Indications: Gross/Net	
			10: Piece counting mode function button	
			11: Tare function operation button	
20	RS-232 SPECIAL DATA MODE SELECTION (Sending data continuously)		RS-232 communication protocol parameters:	
Default set:	00: Special Format: 1; Protocol format data: 1		00: 8 data bits, NO parity (Parity: No)	
0000	01: Special Format: 2; Data Protocol Format: 2		01: 7 bits of data, even parity (Parity: Even)	
	10: Special Format: 3; Protocol format TOLEDO MODE		10: 7 bits of data, Odd parity (Parity: Odd)	
	11: Special Format: 4; Protocol Format DIGI MODE		11: 7 bits of data, Marker parity (Mark Parity)	

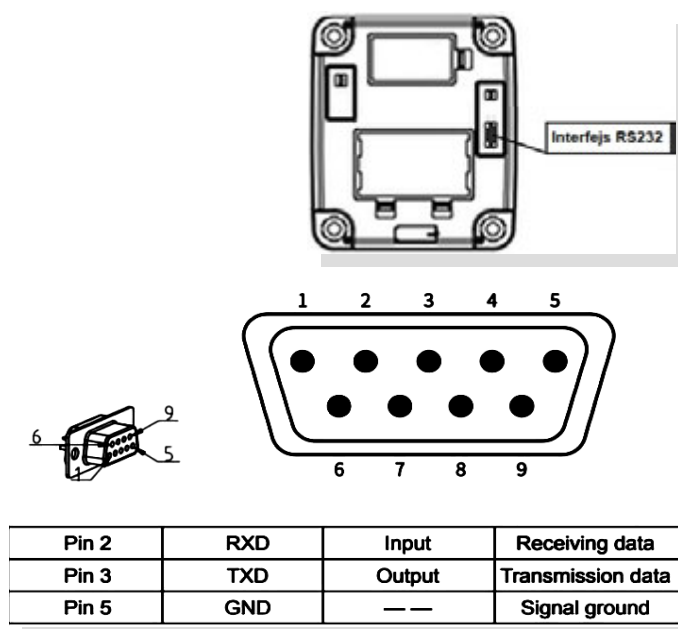
SPEC No.	BIT 3	BIT 2	BIT 1	BIT 0
21 Default set: 0110	To set the decimal point position in the data transmitted in the communication path: 0: Decimal point corresponding to the position in the display 1: Fixed decimal position according to the communication protocol format used	Selection of the communication protocol in POS/ECR mode: (You can press the [Tara] button during startup until initialization is complete to enter the switching interface) 000: POS/ECR TYPE-0 – Most point of sale, POS terminals and some TEC POS systems 001: POS/ECR TYPE-1 - <i>UNUSED</i> 010: POS/ECR TYPE-2 - SHARP ER-Axxx, ER-A450T, new SANYO POS TERMINALS (CAS -DC2 compliant mode) 011: POS/ECR TYPE-2A (ACOM MODE) (5-digit weight format) SHARP ER-Axxx, ER-A450T, new SANYO POS terminals 100: POS/ECR TYPE-4 CRS, NCR2170 and many other POS terminals, most points of sale 101: POS/ECR TYPE-5 NCI General, SAMSUNG SPS-300, ER-900, Most points of sale 110: POS/ECR TYPE-6 SAMSUNG ER-670, ER-5100, SPS-520, Cooperation with sales systems in Poland (CAS COMPLIANT MODE - DC1) 111: POS/ECR TYPE-7 DELTA Cash Register (Command response mode "D, CR, LF") <i>Note: For details on the POS/ECR TYPE-0-7 PROTOCOL (Interface Protocol), refer to the following explanation (POS/ECR INTERFACE). 9600 bit rate, 7 bit data, parity, 1 bit stop (TYPE-6: 9600 baud rate, 8 data bits, no parity, 1 stop bit)</i>		
22 Default set: 0001	To select the type of communication in PRT/ECR mode: 0: ECR (POS) 1: PRINT Mode (The setting is only effective for setting: SPEC02=10XX)	SELECTING THE PRINT MODE 000: NoSnd – No data is sent in this mode 001: K-Snd – This print mode is "command mode" 010: S-Snd – This printing mode is "stable mode" 011: U-Snd – This print mode is "continue mode". 100: C-Snd – This print mode is "weight change mode". 101: E-Snd – This print mode is a "command mode" 110 ~ 111: Settings not used		
23 Default set: 0111	Selecting the Format of Data to Send in Print Mode 0: Contains SOH command (Sends: SOH, STX, S/U, " " / "-" , six digits of the weight indication with decimal sign, mass indication unit (2 bytes), BCC, ETX, EOT) 1: Does not contain command: SOH (Sends: "S/U, " / "-" , six digits of the weight indication with decimal sign, mass indication unit (2 bytes), BCC, CR, LF)	In print or ECR communication mode, The weight unit can be set as "G" (or "Oz"). 0: NO 1: YES	Let the 6-digit scale display displayed "OF", when the weight exceeds MAX value +9e. 0: NO 1: YES	Allow adding decimal points in data sent IN PRINT MODE. 0: NO 1: YES
24 Default set: 0111	Selecting the Output Format for ECR/PRT for loads greater than MAX + 9e and less than -20e: 0: "FFFFFF"/"-----" 1: "OF"/"UL"	Not used	Not used	Not used
25 Default set: 1111	Not used	Not used	Not used	Not used

Notes:

1. When you connect the scale with the optional USB interface to the USB port of your computer, the computer will automatically detect the connection to the USB port. USB communication will be automatically enabled.

9. RS232 Interface Description

RS232 interface in LSW scale:



To ensure reliable data transmission, use a shielded 3-wire cable connection.

Cable

diagramconnecting the DB 9(M)
LSW scale to a PC
(RS232):



Weight	Computer
Plug: DB 9 (Male)	(Connector variant compatible with the one used in the device)
Pin 2 (RXD)	Pin 3 (TXD)
Pin 3 (TXD)	Pin 2 (RXD)
Pin 5 (GND)	Pin 5 (GND)

Communication Protocol Description (default set POS/ECR protocol - TYPE-6)

Transmission Parameters:

Mode: Continuous sending of weight indications,

Baud Rate: 9600 bits/s,

Data bits: 8 bits,

Stop Bits: 1 bit,

Parity bit: n (none).

Response Time: Type. 50ms, Max. 150ms

EXTERNAL DEVICE: POS/ECR, PC	WEIGHT
<ENQ> : Communication Initiation	> (Establishing Communication)
	< <ACK> : Confirmation
<DC 1> : Request Mass Indication Data (Query) (Request variant <DC 2> is not used)	> (Answer)
	< <SOH> : Command
	< <STX> : Command
	WHAT:
	S (53h) – Unstable indication
	U (55h) – Stable indication
	< SIGN:
	Space bar (20h) – Positive indication
	- (5Fh) – Negative indication (minus sign)
	< W5 Weight Indication Value – ASC II Marks
	< W4 (decimal point position according to the position
	< W3 on the display)
	< W2
	< W1
	< W0
	< k (6Bh) Indication unit characters (ASC II)
	< g (67h) For other units:
	Unit ASCII characters
	g (67h) Space bar (20h)
	< <BCC> Data Block Control Character
	< <ETX> End of broadcast
	< <EOT>

EXTERNAL DEVICE: POS/ECR, PC	Connection:	WEIGHT
Connector (D-SUB or other device-specific).	<>	DB-9 M Connector
	<>	

Data byte:

Commands	Commands	WH	SIGN	W5	W4	Data Block	W3	W2	W1	W0	k	g	Checksum	Commands	Commands
<SOH> (01h)	<STX> (02h)	AT									(6Bh)	(67h)	BCC (XOR)	<ETX> (03h)	<EOT> (04h)

The BCC data-block checksum character is evaluated as the **EXCLUSIVE OR (XOR)** checksum as a result of processing all bytes of the data-block, excluding command characters.

Examples:

Example 1:

Weight response for weight indication: 1.166kg

<SOH>	<STX>	S	SIGN	W5	W4	W3	W2	W1	W0	k	g	BCC	<ETX>	<EOT>
01h	02h	53h	8 pm	8 pm	31h	2Eh	31h	36h	36h	6Bh	67h	71h	03h	04h
Command	Command	STABLE	SPACE	SPACE	1	.	1	6	6	k	g	Checksum	Command	Command

Example 2:

Weight response for weight indication < 0.000kg and greater than -20e: -0.046kg

<SOH>	<STX>	S	SIGN	W5	W4	W3	W2	W1	W0	k	g	BCC	<ETX>	<EOT>
01h Command	02h Command	53h STABLE	2Dh -	8 pm SPACE	30h 0	2Eh .	30h 0	34h 4	36h 6	6Bh k	67h g	72h Checksum	03h Command	04h Command

Example 3:

Weight response for weight indication < 0.000kg and less than -20e (Underweight):

<SOH>	<STX>	S	SIGN	W5	W4	W3	W2	W1	W0	k	g	BCC	<ETX>	<EOT>
> 01h Command	02h Command	53h STABLE	2Dh -	2Dh -	2Dh -	2Dh -	2Dh -	2Dh -	2Dh -	6Bh k	67h g	72h Checksum	03h Command	04h Command

• Example 4:

Balance response for weight indication above MAX +9e (G-force):

<SOH>	<STX>	S	SIGN	W5	W4	W3	W2	W1	W0	k	g	BCC	<ETX>	<EOT>
0Ah Command	0Ah Command	53h STABLE	46h F	46h F	46h F	46h F	46h F	46h F	46h F	6Bh k	67h g	72h Checksum	03h Command	04h Command

Note:

Information on other variants of the communication protocol is provided by the LILASCALE POLAND website.

10. Error messages

Display Indication	Cause	Solution
OF	Overload	Remove the load from the pan as the weight of the workpiece to be weighed exceeds the maximum measuring range of the scale.
UF	Negative gross or net weight	Remove the weight from the pan. If there is no load on the pan, reset the [ZERO] key. This should clear the error message. If this does not solve the problem, contact the service.
888888 when the [ZERO] button is pressed	Operating error	Press the ZERO button again.
0 - Err	Exceeding the zero range at the time of starting the balance.	Check that the pan was not loaded at the time of switching. If so, remove the load from the pan and restart the scale. If this does not solve the problem, contact the service.

11. Declaration of conformity (importer)

DECLARATION OF CONFORMITY DEKLARACJA ZGODNOŚCI



Produkt / Seria: Nieautomatyczne urządzenie ważące / LSW
Product / Series: Non-automatic weighing instrument / LSW

Producent: Changzhou Lilang Electronic Co., Ltd.
Producer: No.52, Jinsanjiao Road, Caoqiao Town, Changzhou, Jiangsu, China

Wytwórca: Changzhou Lilang Electronic Co., Ltd.
Manufacturer: No.52, Jinsanjiao Road, Caoqiao Town, Changzhou, Jiangsu, China

Typ: / Model: LSW-D, LSW-S
Type: / Model:

My: LILASCALE POLAND Sp. z o.o. (Importer)
We: ul. Rakuszanki 2 lok. 101, 02-496 Warszawa
www.lilascale.pl

oświadczamy na wyłączną odpowiedzialność producenta, że wyżej określony przedmiot niniejszej deklaracji, odpowiada wzorcowi produkcyjnemu opisanemu w Certyfikacie badania typu UE, jest zgodny z odnośnymi wymaganiami zharmonizowanego prawodawstwa UE i odpowiada wymogom następujących dyrektyw UE i norm zharmonizowanych:

declare under sole responsibility of the manufacturer that the following object of this declaration corresponds to the production model described in the EU Type Examination Certificate, complies with the relevant requirements of EU harmonization legislation and meets the requirements of the following EC Directives and harmonizes standards:

Dyrektywa: Directive:	Zastosowane normy zharmonizowane i dokumenty normatywne: Used harmonizes standards and normative documents:
2014/31/EU (NAWI)	EN 45501:2015; OIML R76:2006; WELMEC 2.1:2001
2014/30/EU (EMC)	EN IEC 61326-1:2021, EN IEC 61000-3-2:2019+A2:2024, EN 61000-3-3:2013+A2:2021+AC:2022
2014/35/EU (LVD)	EN 62368-1:2020+A11:2020 (Zasilacz), EN 61010-1:2010+A1:2019
2011/65/EU (RoHS)	IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-6:2015, IEC 62321-7-1:2015, IEC 62321-7-2:2017, IEC 62321-8:2017

Jednostka Notyfikowana: FORCE Certification A/S (JN numer 0200)

przeprowadziła badania i wydała certyfikat:

Certyfikat Badania Typu UE No. 0200-NAWI-20847

Notified Body: FORCE Certification A/S (NB number 0200)

carried out the research and issued the certificate:

EU Type Examination Certificate No. 0200-NAWI-20847

Podpisano:

Signed by:

Piotr Dobruszek
Prezes Zarządu
LILASCALE Poland Sp. z o.o.

Warszawa, 2026.01.21

12. Importer's Declaration on the WEEE Directive

OŚWIADCZENIE W SPRAWIE DYREKTYWY DECLARATION ON THE DIRECTIVE 2012/19/EC (WEEE)

Zarząd LILASCALE POLAND Sp. z o.o. (Importer) oświadcza, że wszystkie urządzenia marki LILASCALE wprowadzane na rynek UE są objęte zakresem działania Dyrektywy 2012/19/EC (WEEE - Dyrektywa w sprawie zużytego sprzętu elektrycznego i elektronicznego), która szczegółowo określa zasady postępowania ze zużytym sprzętem elektronicznym. Spełniając obowiązek wynikający z zapisów w/wym. Dyrektywy, w ramach dążenia do ograniczenia negatywnego wpływu odpadów elektronicznych na środowisko, sprzęt wprowadzany na rynek UE jest oznaczony znakiem:



Powyższy znak stanowi informację dla użytkownika, że wyżej wymieniony sprzęt po zużyciu, nie może być traktowany jako odpad komunalny i musi być zwrócony w ramach selektywnej zbiórki, prowadzonej przez uprawnione organizacje odzysku działające na terenie państw członkowskich UE, aby zapewnić ochronę środowiska oraz zdrowia i życia ludzi. W przypadku konieczności uzyskania szczegółowych informacji dotyczących świadczenia usług odbioru sprzętu od użytkownika, w ramach których klienci mogą nieodpłatnie zwrócić zużyty sprzęt elektryczny i elektroniczny, prosimy o kontakt z importerem:

LILASCALE POLAND Sp. z o.o., www.lilyscale.pl

The Management Board of LILASCALE POLAND Sp. z o.o. (Importer) declares that all LILASCALE brand devices introduced to the EU market are covered by Directive 2012/19/EC (WEEE - Waste Electrical and Electronic Equipment), which specifies detailed rules for the treatment of waste electronic equipment. In order to meet the obligations arising from the provisions of the above-mentioned Directive, and in an effort to reduce the negative impact of electronic waste on the environment, equipment introduced to the EU market is marked with the following symbol:



The symbol presented above informs the user that the above-mentioned equipment, after use, cannot be treated as municipal waste and must be returned through selective collection, carried out by authorized recovery organizations operating in the EU Member States, in order to ensure protection of the environment and human health and life. If you require detailed information regarding the provision of take-back services, under which customers can return used electrical and electronic equipment free of charge, please contact the importer: LILASCALE POLAND Sp. z o.o.

Podpisano:

Signed by:

A handwritten signature in blue ink, appearing to read 'P. Dobruszek'.

Piotr Dobruszek
Prezes Zarządu
LILASCALE Poland Sp. z o.o.

Warszawa, 2025.12.01

13. List of Service Settings and Calibration

13.1. Operating the Service Mode Function Using the Keypad

For all complex function operations, press and hold the [ZERO] key while pressing the three indicated keys at the same time.

Then release all the keys and go to the operation of the selected mode.

[1] Entering User Function Setting Mode:



[2] To enter the service menu function setting mode:



[3] Entering the display mode of the internal plots of the AD converter:



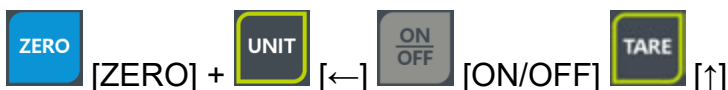
[4] Entering full-range system calibration mode:



[5] Entering calibration switch status detection mode:



[6] Calibration Switch Operation:



(This operation is performed only if the calibration switch status detection indicates **SP OFF**.)

[7] Factory reset of SPEC parameters:



(This operation is performed only if the calibration switch status detection indicates **SP On**.)

13.2. Service Menu Function Settings:

Service personnel can configure the measurement conditions, specifications, and functional requirements of the balance by setting the parameter values accordingly, according to the markings on the nameplate and legal requirements.

When entering the service settings configuration operation, the adjustment device button must be switched on! When the button is pressed, the display will indicate: "SP On" and the key sequence required to enter the service menu must be entered:



Note: For unused parameters, the BIT value should be set to "0".

SPEC No.	BIT3	BIT 2	BIT 1	BIT 0
04	Selecting the Zeroing Range 00: ± 2%FS 01: ± 4%FS 10: ± 10% FS 11: Unlimited.		Pre-tare operation: 0: Forbidden 1: Allowed	TARE RANGE 0: < 50% FS 1: < 100%FS
Default 1000				
05	Selection of automatic billing conditions: 0: When the net weight exceeds 5 d 1: When the net weight exceeds 5d and the gross weight exceeds 21d	To select the allowable range of the starting zero point: 00: ±4%FS 01: ± 10% FS 10: ± 20% FS (According to OIML R76) 11: Unlimited, Equal (FS (MAX)		Automatic tare clearing 0: Enable 1: Disable
Default 1101				
06	Weight Display Modes: 00: Indication of exceeding the allowable negative mass, when the net weight is less than -2D, "UL" is displayed. 01: Negative weight exceeding indication, when gross weight is less than -2D, "UL" is displayed. 10: No indication of exceeding the permitted negative mass. Only the weight value is displayed. 11: Indication of exceeding the permissible negative weight when the displayed weight (net weight/gross weight) is less than -20D.		Manual tare clearing: 0: Allow 1: Defend.	When the calibration on switch is off, the internal weight code is displayed as follows: 0: Allowed 1: Off
Default 1101				
07	Allow counting operations 0: Allow 1: Disable	Operation to convert units of mass after tare when the mass of tare is not zero: 0: Disable Unit Conversion 1: Automatic clearing of tare weight indication before conversion	Peeling and then resetting to zero: 0: Allowed 1: Prohibited	If the zero point range is exceeded during startup, Allow the use of the original zero point 0: Allow 1: Disable
Default 0101				
08	Permission for multiple tare "upwards": 0: Allowed 1: Prohibited	Multiple tare permit: "down" 0: Allowed 1: Prohibited (EN 45501 prohibits)	Non-zero mass, preset tare weight 0: Allowed 1: Prohibited	Allow HOLD for unstable weight: 0: Allow 1: Disable (Type approval prohibits HOLD!)
Default 0111				
09	Selection of reference (calibration) units: (g/kg/lb/oz) 00: g, 01: kg 10: lb 11: oz		Selection of the measuring range (Applies to SPEC 10 only, bit0="1") 00: 3000g, 3,000kg, 6,000lbs, 96.00oz 01: 6000 g, 6,000 kg , 15,000 lbs, 240.00 oz 10: 15000 g, 15,000 kg , 30,000 lbs, 480.00 oz 11: 30000g, 30,000kg , 60,000lbs, 960.00oz	
Default 01xx <i>xx – just like the measuring range</i>				

SPEC No.	BIT 3	BIT 2	BIT 1	BIT 0
10	Dual-band ground display mode.	Multi-interval (fixed mode only):	Flashing unit symbol after mass unit conversion:	To select the range setting mode:
Default	0: Dual-band net weight display	0: Single interval	0: Allow	0: Setting the full weight of the free weight
0110	1: Dual-band gross weight display	1: Double interval	1: Disable	1: Setting the full weight of the fixed weight
11	Not used - 0	Decimal point position on the weight to display weight:		
Default		000: No decimal point		
0011		001: One decimal place (00000.0)		
		010: Two decimal places (0000.00)		
		011: Three decimal places (000.000)		
		100: Four decimal places (00.0000)		
		101: Five decimal places (0.00000)		
		The rest of the settings are incorrect.		
12	Mode selection:	Minimum weight plot (for the first sub-range):		
Default	0: Calibration mode	000: 1,100:20		
0xxx	according to the specified weight of the standard	001: 2 101:50		
xxx – just like the measuring cannon	1: Calibration mode with a mass equal to MAX.	010: 5 110:100		
13	Resolution (Freely set range):	011: 10 111: Unused		
Default	0000: 1000d 0001: 1250d 0010: 1500d 0011: 2000d 0100: 2500d 0101: 3000d 0110: 4000d			
0101	0111: 5000d 1000: 6000d 1001: 7500d 1010: 10000d 1011: 12500d 1100: 15000d 1101: 20000d OTHER:			
14	Acceptable overload display pitches:			
Default	0000: 0d 0001: 1d 0010: 2d 0011: 3d 0100: 4d 0101: 5d 0110: 6d 0111: 7d			
1001	1000: 8d 1001: 9d 1010: 10d 1011: 11d 1100: 12d 1101: 13d 1110: 14d 1111: 15d			
15	Allow the conversion of mass units to "g":	Allow to convert units of mass to "kg":	Allow to convert units of mass to "lb":	Allow Mass Units to "Oz" to Convert:
Default	0: Allow	0: Allow	0: Allow	0: Allow
0011	1: Ban	1: Ban	1: Ban	1: Ban
16	Memorization of the unit of indication when the scale is switched off:	SPEC parameter menu editing mode	Displaying the SPEC parameter number:	Displaying the firmware version number during startup:
Default	0: Allow	0: Standard Mode	0: Enable Item Number Display	0: Ban
0011	1: Ban	1: US Version Mode	1: Disable the display of the item number	1: Allow
17	To select the resolution when the unit of mass is "oz":	Not used - 0	Not used - 0	Display of measurement values in indoor parcels
Default	0: High Definition Mode			0: Allowed
1001	1: Standard Mode			1: Off
18	Not used - 00		Not used - 0	Displaying the battery status result:
Default				0: Displays battery voltage
0000				1: Displays battery level as a percentage
19	Not used - 00			Not used - 00
Default:				
0000				

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— POLAND —

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