OCTOGON

MANUAL

LWLB

COUNTING SCALE FOR REMOTE PLATFORM

Installation and user manual



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

This manual describes the LWLB counting scale with input for a remote platform (capacity 6, 15 or 30 kg): installation, battery, remote platform connection, keys and displays, operation, item memory, settings menu, calibration and PC protocol.

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1 About this manual

The LWLB is a counting scale with a stainless steel loading plate, three 6-digit backlit LCD displays, a waterproof keyboard with 20 keys, an internal battery, an RS232 serial port and an input for a second scale (remote platform).

1.1 Symbols

Notice	Meaning
Caution	Risk of electric shock.
Caution	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 **tECh**; keys with their label, for example Zero.

2 Warranty and disposal

2.1 Warranty

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

2.2 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

The LWLB allows a piece counting and totalization system (weighings and number of pieces) to be built with two scales: the built-in low-capacity worktop scale (local scale) for piece sampling and a higher-capacity floor-mounted scale (remote platform) for large quantities. Up to 100 items (PLU) can be stored, each with description, preset tare value and average unit weight.

- Stainless steel loading plate, 225 × 295 mm.
- 3 × 6-digit backlit LCD displays, 20 mm height.
- Keyboard with 20 keys, waterproof.
- Levelling with 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 PC or external printer.
- Remote platform input, 5-pin circular connector (included).

3.2 Functions

- Piece counting: simultaneous display of the number of pieces, the average unit weight and the total weight of the pieces on the scale.
- Item memory: 100 storable items (PLU) with name, preset tare value and average unit weight.
- Totalization: automatic / manual totalization of the weighings.
- Percentage: weight indication as a percentage.
- Checking: weight / pieces / percentage checking (HIGH / LOW) with acoustic and visual alarm.
- Receipt printing, optional via the external printer: customizable header, date, time, item name, scale ID, scale type, net weight, average unit weight, number of pieces on the scale, total weight, total number of pieces.

3.3 Versions

Capacity (kg)	Division e (g)	Net weight (kg)
6	0.1	4.8
15	0.2	4.8
30	0.5	4.8

3.4 Connectable platforms

- Single cell platforms: LELA, LELC, LELD.
- 4 cells platforms: LELE, LELF.

3.5 Options on request

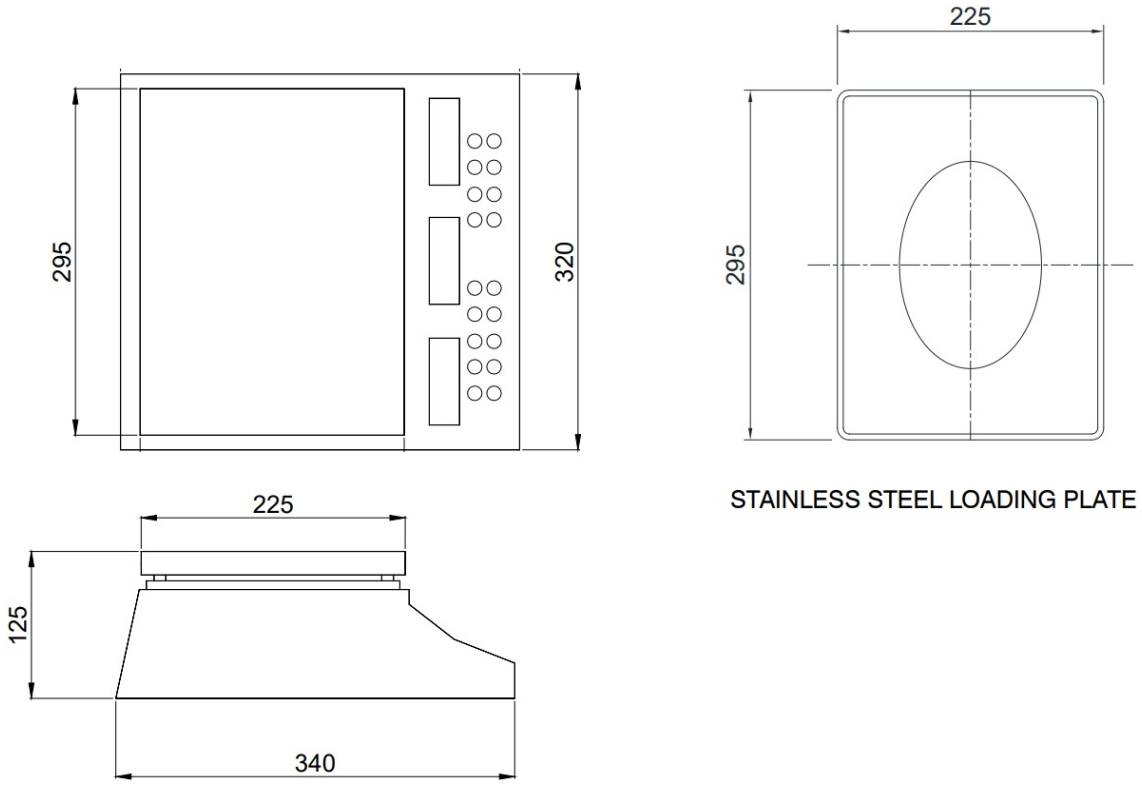
- Stainless steel deep tray; dimensions: 230 × 300 × 40 mm.
- Rechargeable battery 6 V, 4.5 Ah capacity.
- Desktop thermal printer.

4 Technical specifications

Item	Value
Capacity	6 · 15 · 30 kg
Linearity	< 0.01 % full scale
Display resolution	60 000
Units of measure	g, kg
Loading plate	Stainless steel, 225 × 295 mm
Display	3 × 6-digit backlit LCD, 20 mm height
Keyboard	20 keys, waterproof

Item	Value
Levelling	Bubble level and adjustable feet
Net weight	4.8 kg
Serial port	RS232, for PC or external printer
Baud rate	600, 1200, 2400, 4800, 9600 bit/s
Remote platform	input, 5-pin circular connector (included)
Connectable	single cell platforms LELA, LELC, LELD · 4 cells platforms LELE, LELF
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	0 ... +40 °C
Calibration	Calibration report on request
Compliance	CE; UKCA (equivalent of the CE marking for the United Kingdom)

5 Dimensions



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

6 Installation and start-up

6.1 Installation and levelling

– Stability: place the scale on a highly stable and flat surface. Adjust the feet so that all four of them rest on the surface on which the scale is placed. To test the stability, place a load corresponding to the maximum capacity on the loading plate and check that the scale is stable under these conditions.

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

Important Place the scale in a dry place, away from sources of heat and from direct sunlight, and sheltered from draughts and rain. Do not wash with pressurised jets of water and do not immerse in water. Clean the main parts of the scale with a damp cloth. For separate cleaning, remove the loading plate and clean it with appropriate stainless steel cleaning products. Avoid leaving objects on the loading plate when the scale is not being used or when it is switched off. Always place the materials to be weighed on the loading plate with due care to avoid damage to the internal weight sensor caused by dynamic loading.

6.2 Switching on and off

Note Before switching on for the first time, charge the scale for at least 18 hours using the supplied battery charger.

– The scale comes with an external battery charger; it can be used with the charger permanently connected or disconnected.

– Switching on: press and hold the POWER on/off switch under the scale in its “on” position for at least 2 seconds.

– Switching off: press and hold the POWER on/off switch under the scale in its “off” position for at least 2 seconds.

6.3 Battery use and recharging

– The internal rechargeable battery provides approximately 70 hours of operation (with the backlit display turned off).

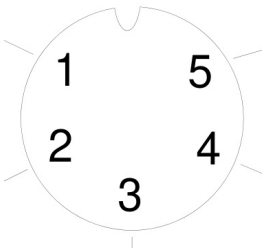
– When the scale is not connected to the battery charger and the battery is almost flat, the battery symbol lights up on the display; recharge the battery as soon as possible. The scale then displays the message **bAt-Lo** every 5 minutes.

– If the battery is not recharged, the scale switches itself off after 30 minutes of continuous operation in order to preserve the battery efficiency. Therefore recharge the battery promptly.

– With the battery charger connected, the colour of the recharge LED shows the charge level: red = battery almost flat; orange = partially charged, recharging in progress; green = fully charged (end of recharging).

6.4 Remote platform connection

The remote platform (floor-mounted scale) is connected to the 5-pin circular connector of the scale. The matching cable connector is included. Pin assignment of the cable connector, view on the solder side:

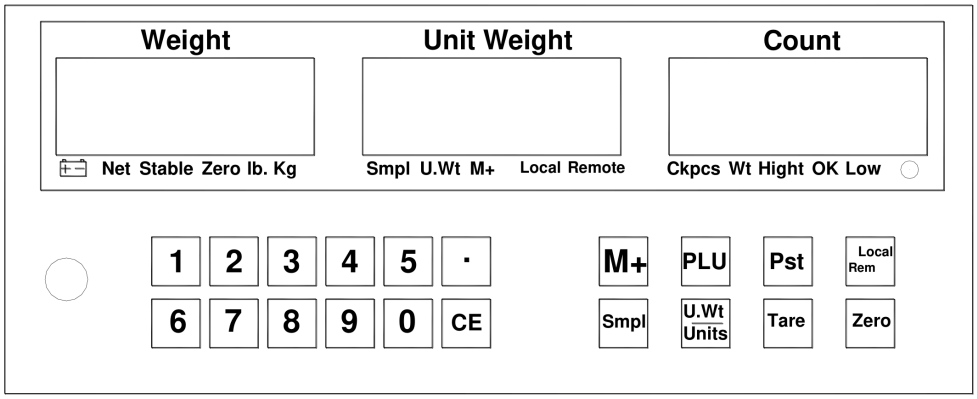


Pin	Load cell signal
1	+ Signal
2	– Signal
3	Shield
4	– Excitation and – Ref./Sense
5	+ Excitation and + Ref./Sense

For connectable platforms see section 3.4.

7 Keypad, displays and messages

7.1 Keypad



Displays and keypad of the scale (drawing).

Key	Function
1 ... 0, .	Entry of numerical values (preset tare values, unit weight, item number) and of item names
CE	Deletes a numerical entry; unselects the item in the memory; deletes the total (weight and pieces) while displayed
M+	Adds the weight and the number of pieces on the scale to the total and prints the weighing data (if a printer is connected). With an empty scale (zero): shows the total weight, the number of weighings and the total number of pieces, and prints the totals
Smpl	Sampling of the pieces on the scale
PLU	Recalls and stores items
U.Wt/Units	Stores the unit weight entered via the keypad; switches the unit of measurement (if enabled in the settings menu)
Pst	Sets the weight and piece limits
Tare	Sets the tare value (net weight, displayed with Net)
Local/Rem	Switches the display between local scale and remote platform
Zero	Sets the scale to zero (only within the range set with **MAnL**, chapter 11)

7.2 Displays and symbols

The three displays are labelled “Weight”, “Unit Weight” and “Count”.

Display	Symbol	Meaning
Weight	–	Weight of the selected scale
	Battery symbol	Battery charge level low
	Net	Net weight (semi-automatic tare value entered)
	Stable	The displayed weight is stable
	Zero	Indication 0, deviation from 0 ≤ ±0.25 divisions
	lb / kg	Selected unit of measurement pounds / kilograms
Unit Weight	–	Unit weight in g (entered or calculated); during storage the number of weighings completed until then
	Smpl	The weight on the scale is not sufficient to calculate the unit weight automatically
	M+	Data stored in the totals
	Local	The local scale (worktop scale) is displayed
	Remote	The remote platform (floor-mounted scale) is displayed
Count	–	Number of pieces on the selected scale
	CkPcs	Piece check active
	Wt	Weight check active
	High	With check active: quantity exceeds the upper limit
	OK	With check active: quantity between the lower and the upper limit
	Low	With check active: quantity below the lower limit

The power LED at the bottom right of the “Count” display shows the charge level (section 6.3).

7.3 Error messages

Display	Meaning
- - - - -	Together with a warning sound: the capacity of the scale has been exceeded. Remove the load from the scale immediately to avoid overloading the weight sensor.
bAt-Lo	Battery charge level low (connect the battery charger to the wall socket).
Err4	Zero-setting attempted for a weight outside the permitted range (**MAnL**). At power-on: the weight on the scale exceeds the autozero range (**AUto**), the autozero is not allowed (section 8.3).
Err5	Keypad connection error.
Err6	The load cell (internal weight sensor) is damaged.

8 Operation

8.1 Local scale and remote platform

All functions are available on the local scale (worktop scale) and on the remote platform (floor-mounted scale). Piece sampling is possible with either scale; the local scale is advisable since its smaller capacity guarantees more accurate sampling. The normal procedure is sampling with the local scale and counting of large quantities with the floor-mounted scale. Press Local/Rem to switch the display between "Local" and "Remote". A different tare value can be entered for each scale (manually or with the Tare key); it is kept when switching over. All the following procedures, except the autozero at power-on, can be carried out on both scales.

8.2 Zero-setting (semi-automatic)

If there are no items on the loading plate and the display indicates a weight other than zero, press Zero while the weight is displayed to set the current weight to zero. If the weight is outside the range set with **MAnL**, the zero-setting is not allowed and **Err4** is shown. When zero is displayed, the Zero symbol indicates that the deviation from 0 is ≤ ±0.25 divisions.

8.3 Autozero at power-on (local scale only)

At power-on the weight is set to zero automatically if it is within the range set with **AUto**. If **Err4** appears at power-on, the scale is loaded with a higher weight and the autozero is not allowed: remove the item, switch the instrument off and then on again.

8.4 Tare (semi-automatic subtractive tare)

Place the item to be tared on the scale, wait for the Stable indication and press Tare: the display shows the net weight starting from 0, and the Net symbol confirms that a tare has been set. To delete the tare, remove the item from the scale and press Tare once again.

8.5 Preset tare value via keypad

Enter the tare value via the keypad (including the decimal point, if any) and press Tare; the value is subtracted from the displayed weight. To delete the tare, remove the item from the scale and press Tare once again.

8.6 Piece counting

For counting, the unit weight of an individual piece must be known. It is either entered via the keypad or calculated by the instrument from a known number of pieces placed on the scale (sampling). The unit weight is expressed in grams.

- Sampling: ensure that Zero is displayed (unloaded scale). Load the sample pieces, enter their number via the keypad and press Smpl. The "Weight" display shows the current weight, the "Unit Weight" display the calculated unit weight and the "Count" display the number of pieces. Now load all the pieces to be counted; the scale can be switched between local and remote at any time.
- Manual unit weight: enter the value (including the decimal point) via the keypad and press U.Wt/Units.

Note The larger the sampled quantity, the higher the piece counting precision.

8.7 Totalizing function

Up to 99 weighings can be totalized, after which the total is automatically reset. Totalization is only possible with a stable weight (Stable symbol on), manually or automatically depending on the setting **Print** in the settings menu (chapter 10).

Manual totalization mode

With the weight displayed, load the item whose weight is to be stored and press M+. The "Weight" display shows the total up to then, the "Unit Weight" display the number of the stored weighing and the "Count" display (with piece counting active) the number of items on the scale. Unload the scale (passing through zero), place the next item and press M+ again - up to 99 sequential weighings.

Automatic totalization mode

With the weight displayed, load the item and wait for the Stable indication. After removing the item, the "Weight" display shows the total up to then, the "Unit Weight" display the number of the stored weighing and the "Count" display (with piece counting active) the number of items. Place the next item - up to 99 sequential weighings.

8.8 Printouts

If a printer (option) is connected, every totalization (manual or automatic) prints the date, time, scale used (local or remote), ID number, stored net weight, current total and weighing number; with piece counting active also the number of stored pieces, the unit weight and the total number of pieces; with an item (PLU) selected also its name. Abbreviations on the printout:

Abbreviation	Meaning
LOCAL SCALE / REMOTE SCALE	Scale used
ID	ID number of the scale (**U id**, chapter 10)
NAME	Item name (PLU)
NET	Stored net weight
PCS	Number of pieces
TW	Total weight
TPC	Total number of pieces
NO	Number of weighings

If the printer can store an image as a header (see the printer documentation), it is printed as a header with the printout of the first weighing. To enable this, set **SEnd** = **OFF** in the submenu **ForM** (chapter 10).

8.9 Displaying and clearing the total

With an empty scale (Zero symbol on), press M+: the "Weight" display shows the total weight, the "Unit Weight" display the number of weighings and the "Count" display (with piece counting active) the total number of pieces. If a printer is connected, the totals are printed. While they are displayed, press CE to delete the total and quit.

8.10 Check function (weight or pieces)

– Press Pst: the "Unit Weight" display shows **nEt** (weight check). Press U.Wt/Units to select **Cnt** (piece check). Confirm the selected check with Zero.

– The display shows **HI nEt** (weight) or **HI Cnt** (pieces). Enter the maximum limit via the numerical keypad and confirm with Tare.

– The display shows **Lo nEt** or **Lo Cnt**. Enter the minimum limit and confirm with Tare.

Display	Meaning
High	The weight or the items on the scale exceed the maximum limit
OK	The weight or the items on the scale are between the minimum and maximum limits
Low	The weight or the items on the scale are below the minimum limit

The warning signal of the check function is set with **bEEP** in the settings menu (chapter 10).

9 Item memory (PLU)

Up to 100 items can be stored and recalled via the keypad, each with its own description, tare weight and unit weight. Set the data of an item before carrying out any weight or piece totalization - manually via the keypad or from the PC via the serial port (chapter 12). When storing manually, the tare weight and unit weight currently in the instrument memory are stored with the item.

9.1 Item setting

– Press PLU, enter the number to be associated with the item and confirm with Pst.

– Enter a description of the item (max. 12 characters): to type a letter, hold down the key with the required letter until it is displayed, then release the key. Press M+ to move to the next digit and . to move to the previous digit.

– Press Tare to store the item: the tare weight and unit weight currently in the scale memory are associated with the entered number and description.

9.2 Recalling an item

Press PLU, enter the number of the item to be recalled and press PLU once again. The instrument automatically adjusts to the tare weight and unit weight stored in the item.

10 Settings menu

This menu provides access to the instrument setting parameters. To access the menu, press Pst during the initial auto-zero phase after switching on.

Key	Function in the menu
U.Wt/Units	Scrolls through the menus, submenus and settings
Tare	Moves on to the next menu and confirms the selected setting
Zero	Goes back to the previous menu and quits without saving the selected setting

Menu	Submenu	Settings
F1 OFF	**bEEP** Warning signal	**On in**: signal active when the weight is within the limits (OK); **On oUt**: signal active when the weight is lower than the minimum limit (Low) or higher than the maximum limit (High); **oFF**: warning device disabled
	EL Back-lighting	**LitE oFF**: always off; **LitE on**: always on; **LitE AUt**: activated by a weight change or a key press
	Unit Units of measurement	**kg / Lb**: switching kg/lb with the U.Wt/Units key with the scale at zero; **kiLo**: kilograms; **Lb**: pounds
	oFF Automatic power-off	**0**: disabled; **3**, **5**, **15**, **30**: power-off after minutes
	ForM Header printout	**SEnd**: **On** = header printing disabled at the first weighing; **OFF** = header printing enabled at the first weighing
F2 Prt	**P ModE** Serial operation	**Print** (printer): **On** = automatic totalization; **OFF** = totalization in manual mode only. **P cont**: continuous string for PC with status, weight, average unit weight, number of pieces. **SEr rE**: continuous string for PC with status, weight
	P bAUd Baud rate	600, 1200, 2400, 4800, 9600 (default 9600)
	PArity Serial communication parameters	**8 n 1**; **7 E 1**; **7 o 1** (default 8 n 1)
	PtYPE	leave set to **tPUP**; do not alter this parameter
U id	**U id 000000** ID identifier, appears in printouts	alphanumeric, max. 6 characters
SC id	**SC id 000000** Scale identifier, appears in the management protocol	alphanumeric, max. 6 characters
tECh	Calibration parameters (reserved for the installer)	chapter 11

11 Calibration parameters and calibration

Caution Reserved for the installer. This operation must be performed by skilled personnel.

11.1 Calibration parameter menu

- During the initial auto-zero phase after switching on, press Pst; **F1 OFF** is displayed.
- Press U.Wt/Units to display **tECh** and press Tare: **PIn** is displayed.
- Enter the scale PIN (PIN 9999 can be used to always obtain access) and confirm with Tare.
- **tECh LocAL** or **rEMotE**: press Local/Rem to select the scale to be set; confirm with Tare.
- **tECh Unit**: select the unit of measurement for the settings with U.Wt/Units; confirm with Tare. The calibration parameters of the selected scale are now accessible.

In the menu, U.Wt/Units scrolls through the parameters and settings, Tare moves on to the next parameter and confirms the selected setting, Zero goes back to the previous parameter and quits without saving.

Parameter	Function and settings
Cnt	Display of the internal points of the A/D converter
CAP	Only adjustable for the remote platform: **dESC** number of decimals; **SEL** full scale value; **InC** division value
diu	Only adjustable for the local scale: division value
A2t	Zero tracking in divisions: 0.5d, 1d, 2d, 4d
AUto	Only active for the local scale: autozero at power-on as a percentage of full scale: 0, 2, 5, 10, 20 %
MAnL	Range of the manual zero-setting (Zero key) as a percentage of full scale: 0, 2, 4, 10, 50, 100 %
Pin	PIN for access to the parameters: **PIn1** enter new PIN; **PIn2** confirm new PIN
9rA	Set the gravitational acceleration value

Important After adjusting the calibration parameters **CAP** (**dESC**, **SEL**, **InC**), **diu** or **9rA**, always carry out a calibration with sample weight (section 11.2).

11.2 Calibration with sample weight

- During the initial auto-zero phase after switching on, press Zero; **PIn** is displayed. Enter the PIN (9999 always gives access) and confirm with Tare.
- **tECh LocAL** or **rEMotE**: press Local/Rem to select the scale to be calibrated; confirm with Tare.
- **tECh Unit**: select the unit of measurement with U.Wt/Units; confirm with Tare.

Local scale (LocAL)

Display	Action
UnLoAd	Unload the scale (scale at zero), wait for the stable weight indication and press Tare.
A 2kg, **A 5kg**, **A 10kg**	Load a sample weight of the indicated value (2 kg for capacity 6 kg; 5 kg for 15 kg; 10 kg for 30 kg) and press Tare.
A 6kg, **A 15kg**, **A 30kg**	Load a sample weight of the indicated value (6 kg for capacity 6 kg; 15 kg for 15 kg; 30 kg for 30 kg) and press Tare.

Remote platform (rEMotE)

Display	Action
UnLoAd	Unload the scale (scale at zero), wait for the stable weight indication and press Tare.
SEL	Set the weight value to be used as sample weight and press Tare.
LOAd	Load the weight on the scale, wait for the stable weight indication and confirm with Tare.

12 Connection to a PC

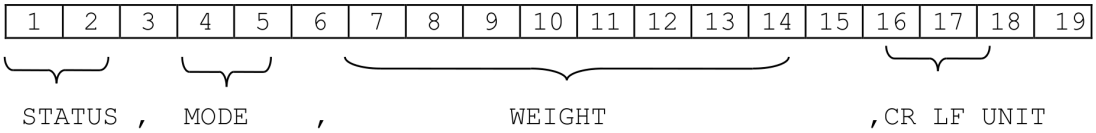
12.1 Connection to a PC (RS232)

Connection between the serial port of the scale (COM, 9-pin, male) and the PC (9-pin, female):

Scale, pin	PC, pin
2	3
3	2
5	5

12.2 One-way protocol

If continuous transmission **SEr rE** has been selected in the settings menu (chapter 10), the instrument continuously sends the following string:



Part	Content
STATUS (2 bytes)	ST = stable weight; US = unstable weight
MODE (2 bytes)	GS = gross weight; NT = net weight (semi-automatic tare set)
WEIGHT (8 bytes)	Weight value; 2D (hex) = "–" (minus), 2E (hex) = "." (decimal point)
UNIT	kg = 6B 67 (hex); g = 67 (hex)
,	Comma: 2C (hex)
CR	Carriage return: 0D (hex)
LF	Line feed: 0A (hex)

If **P cont** has been selected, the average unit weight and the number of pieces are added to the string.

12.3 Management protocol from the PC

Each command sent must end with the characters "carriage return" (ASCII 13) and "line feed" (ASCII 10). If a wrong command or a command not recognised by the instrument is sent, the instrument responds with the command preceded by ER, for example NN <cr> <lf> is answered with ER NN <cr> <lf>. The management protocol is active with any serial port setting (**Print**, **P cont**, **SEr rE**); setting **Print** in the item **P ModE** (menu **F2 Prt**, chapter 10) is recommended.

Command sent from PC	Function
PLUxx	Selects the PLU item (xx = 00 to 99)
T	Tare weight zero-setting (same function as the Tare key)
Txxxxxx	Preset tare value; indicate the decimal point, if any, e.g. T2.500
Z	Semi-automatic zero (same function as the Zero key)
M+	Weighing storage (same function as the M+ key)
MR	Recalls the stored weighing data to the display
MC	Deletes the completed weighings
Uxxx.xxx	Setting of the unit weight (in g)
Sxxx	Enters the number of pieces for sampling (same function as the Smpl key)
SL	Selects the local scale
SR	Selects the remote scale

Request sent from PC	Response of the scale
\L	Selected scale (REMOTE SCALE or LOCAL SCALE)
\I	ID number set in the settings (ID: xxxxxx)
\S	SC number set in the settings (SCALE: xxxxxx)
\N	Net weight (example: 0.7205 kg NET)
\G	Gross weight (example: 0.9410 kg GROSS)
\T	Tare weight (example: 0.2205 kg TARE)
\U	Stored unit weight (example: 4.41009 g U.W.)
\P	Number of pieces (example: 50 PCS)
\C	Totalized pieces (example: 450 TPC)
\W	Totalized weight (example: 8.2205 kg TW)
\M	Number of stored weighings (example: 15 NO)

Setting via PC	Function
SUIDxxxxxx	Sets the ID identification number
SSIDxxxxxx	Sets the SC identification number
SPLUxx,xxxxxxxxxxx	Sets the item description for the PLU number (xx = item number, followed by 12 alphanumeric characters)

13 Directives and standards

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

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
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.