

SERIE

K3 / K3P / K3i / K3i Printer MK3 / MK3 Printer S3/ S5i / S7i / TCamel 2T







USER MANUAL

| Warning | 3 |
|--|----|
| Features | 3 |
| Options | 4 |
| Packaging | 4 |
| Features of the indicator | 4 |
| Load cell connection | 4 |
| User interface | 5 |
| Serial communications | 5 |
| Input/output options | 5 |
| Power supply | 5 |
| Operating conditions and mechanical data | 5 |
| Relay card | 5 |
| Thermal printer (k3ip and mk3p) | 5 |
| Display description | 6 |
| Touchpad description | 6 |
| Connections | 7 |
| Platform 1 connection. | 7 |
| Rs-232 | 8 |
| Assembly | 8 |
| Start-up | 9 |
| Device reset | 9 |
| Using the tare | 9 |
| Fixed tare | 9 |
| Weight sum total | 10 |
| Internal test | 11 |
| Blocking the touchpad | 11 |
| Advanced functions and set up | 12 |
| Manual function | 13 |
| Scanner function | 15 |
| Memorising weight limits and response mode | 16 |
| Activating the limit (+/-) function | 18 |
| Sampling | 19 |
| Counting | 19 |
| Individual weight memory (piece-counting) | 20 |
| Using the tare memory | 22 |
| Activating this function | 24 |
| Using the function | 24 |
| Printing operation | 37 |
| Warranty | 42 |

ENGLISH

WARNING

- Unplug the power supply before installing or disassembling.
- Before using the device, check that the voltage printed on the features label matches the one of the electricity network that will be used. If they do not match, do not plug the device into the electrical network.
- Before using the device, make sure that the power supply cord is not obstructed or trapped. The cord must be free of any tension.
- These scales must only be used under the environmental conditions specified in this user manual.
- This device must not be used in areas where there is risk of explosion or in unstable conditions.
- Do not place the scales close to sources of heat or under direct solar radiation.
- Keep the scales away from any other sources of electromagnetic radiation. Its influence can affect the reading accuracy of the indicator.
- When the low battery indicator appears, the battery must be recharged as soon as possible. A battery that is left uncharged for long periods of time deteriorates and stops working.
- When changing the battery, make sure that the (+) and (-) terminals are connected to the corresponding ends.

FEATURES

- Backlit liquid crystal green display in selectable colour.
- Menu with activated function indicator by colour.
- Cross-shaped touchpad for intuitive use of the menu.
- 4 weight units.
- IP-67 protection against liquids and dust.
- Cell, power supply and optional watertight connectors.
- Reversible face. It can be places on a table or mounted on the wall without any other accessories (except model K3i which needs the wall mount).
- Normal tare or set tare.
- Memory of 20 numerical tares.
- Memory of 20 weight limits to control of +/-.
- Memory of 100 items for the piece-counting function.
- 3-line header printing with 4 selectable font sizes.
- 2-line ticket footer printing with 4 selectable font sizes.
- Memorization of item code to print 6 alphanumeric characters.

- Batch number to be printed on the ticket.
- Printing in Spanish, English, French and German.
- Printing of the total on the ticket (selectable).
- 10 step linear calibration and selectable gravity setting.
- High/OK/low checking function with visual indication in 3 colours and sound indication.
- Network adapter with a 3.5m cable.
- Automatic disconnection (adjustable).
- Rechargeable battery (optional in K3T Series).

OPTIONS

- RS-232 PC and printer double data outlet (optional in K3T Series).
- External tare input (pedal or switch).
- Printing out date and time on tickets (optional).

PACKAGING

- 1 indicator.
- 1 weighing platform (if the full device package is purchased)
- 1 column (optional).
- 1 network adapter 220V/9V.
- 1 user manual.
- Rechargeable battery (optional in K3T Series).

FEATURES OF THE INDICATOR

Load cell connection

| Maximum input signal | ±4 mV/V |
|-------------------------------------|---|
| Maximum input voltage | -0.3 a 5.3 V |
| Internal resolution | 20-bit converter, 1000000 accounts |
| | (100000 external) |
| Measuring frequency | 10 samples per second |
| Linearity error | $\leq 0.01\%$ of the measuring range |
| Excitation voltage | 5 Vdc |
| Minimum impedance of the transducer | · Without relay card: 31,666 Ω (12 cells x |
| | 380 Ω) |
| | · With relay card: 47.5 Ω (8 cells x 380 |
| | Ω) |
| Cable length | $30 \text{ m/mm}^2 \text{ max.}$ (6 wires) |

User interface

| Main indicator | 6 LCD digits, 25.4 mm high and weight | |
|-------------------|---------------------------------------|--|
| | limit display | |
| | Backlit with a 3-led panel back light | |
| | (RGB) | |
| Touchpad keyboard | 11 keys | |
| Sound warning | Mini intermittent sound piezoelectric | |
| | tweeter (2300±300 Hz y 85 dB) | |

Serial communications

| Tx/Rx Port: (Port 1) | Bi-directional RS-232C |
|------------------------|---------------------------------------|
| Tx/Rx Port: (Port 2) | Bi-directional RS-232C |
| Transmission rate | 1200, 2400, 4800, 9600, 19200, 38400, |
| | 57600, 115200 |
| No. of bits and parity | 8 bits, no parity, 1 bit stop |
| | |

Input/output options

| Relay output | Relay card (3 outputs) for external dosing/indication ("traffic light" type) used for the weight control function. |
|--------------|--|
| Tare pedal | Pedal used for taring |
| RTC board | RTC for date and time (for printer |
| | option) |

Power supply

| Connection to the electrical network | Through a 12V power supply; 1A |
|--------------------------------------|--|
| Battery | 6V-5AH; |
| | Service time 25/60 hours, depending on |
| | use. |

Operating conditions and mechanical data

| Operating temperature range | +5°C/+35°C |
|-----------------------------|-------------------------------------|
| Size (mm) | 220 x 180 x 83 |
| Weight (kg) | 1.5 (including battery) |
| Assembly | Countertop |
| | Optional: Tilting wall/column mount |
| Watertightness | IP-65 (K3); IP-67 (K3i) |

Relay card

| Maximum voltage | 24 VDC/24 VAC |
|-------------------|-----------------------------------|
| Maximum intensity | 10 A |
| Relay life | 100000 operations at nominal load |
| | |

Thermal printer (K3iP and MK3P)

| Printer life | 6000000 printed lines |
|----------------|-----------------------|
| Resolution | 8 points/mm |
| Printing speed | 30 mm/sec |

| Type of paper | Thermal paper roll (57mm wide, 30 mm | |
|----------------|---------------------------------------|--|
| | Ø) | |
| Printing width | 48 mm | |
| Printing sizes | 6x8 points, 8x16 points, 12x24 points | |

DISPLAY DESCRIPTION



TOUCHPAD DESCRIPTION



Power on/Power off. By pressing this button the indicator turns on. When the indicator is on, press this button for approximately one second to turn it off.



Weight unit change button. By pressing this button, you can change the weight unit. In menu mode, it will work as an escape button and return to normal mode (Escape). By keeping this button pressed for over one second it starts the piece-counting mode.



Gross/Net button. When the tare is used, pressing this button will show the total weight. Pressing it again will show the net weight. By keeping it pressed for over a second it automatically selects the "Weight limit" mode.



PLU button Press this button to enter the menu and to access previously stored values of weight limits, piece counters, tares and other useful functions. By keeping this button pressed for over a second, it enters the factory mode and asks for a passwords (only accessible to authorised users).

Zero button. It sets the scale to zero, correcting possible deviations. The platform must always be empty to perform this function. By pressing this button for over a second, it shows the display test, capacity, division and software version.



Tare button. Pressing this button once will subtract the weight of any container or box located on the platform, until the container or box is removed and the tare button is pressed again. Keeping this button pressed will give you access to the tare memory.



MR and left arrow. By pressing this button on the main screen, it closes and sends the accumulated ticket data if this option is set up. It shows the total accumulated weight. In menu mode, it confirms the selected adjustment value and it returns to the previous menu.

M+ and right arrow. Press this arrow to have the device memorise the value shown on the display. It starts the accumulated ticked (if it was not already started) and sends the ticket data to the printer if it is set up. For a few seconds, it also shows the accumulated total. In menu mode, it shows the next function.

Clock and top arrow. By pressing it, it shows the accumulated value. If you press it for over a second it shows the scheduled date and time. In menu mode, it increases the value (digit) of the display.

MC and bottom arrow. Press this arrow to erase the stored weighing memory. In menu mode, it decreases the value (digit) of the display.

Enter. Pressing this button on the main screen, it sends current weight data to the printer (simple mode) if it is set up. By pressing this button for 5 seconds, it will activate the block/unblock function of the touchpad. In menu mode, it confirms the selection/modification made.

CONNECTIONS



AC/DC: Power supply connector.
Option: Free for options.
RS-232: Double RS-232C data and tare output (optional for K3T).
C1: Platform 1 connection.
Platform 1 connection.

Multipin mobile connector. Male chassis socket P700 (7-pin).

| | | Lood Coll A | Load Call D |
|--------------|---------|-------------|-------------|
| DIN 1 | SIC. | Rhua | White |
| DIN 2 | CIC + | Reotten | Graan |
| DIN 3 | CHIEL D | Shield | Shiald |
| DIN 4 | FYC | Plack | Plack |
| DIN 5 | CENICE | | Rhua |
| ΒΙΝ ζ | FYC + | Dad | Dad |
| DIN 7 | CENCE 1 | | Vallow |



<u>RS-232</u>

Case 1

Multipin mobile connector. Male chassis socket P700 (8-pines).

| 4 | RxD |
|---|-----|
| 5 | TxD |
| 6 | GND |

Caso 2

DB9 male connector

2

3

5

RxD

TxD

GND





ASSEMBLY

Place the platform on a flat surface without any objects that might interfere in the weighing process.

Unblock the platform by removing or loosening the blocking screws, as indicated in the instructions of the attached unblocking guide.

Insert the cell cable through the column until it comes out of the column's top opening.

Place the column (optional) inside the column support and adjust the screws to block it and fix it.

Place the indicator on the top part of the column, making sure that the support fixing screws are in place.

Insert the power cable to connectionC1, and the plug it into the AC/DC power supply connector. Do not use other cables besides the included one as it may damage the indicator's inner circuits.

Plug the power supply cable to a 110V or 220V electrical network outlet (it supports both voltage inputs).

By pressing (), the indicator will start the initialization process and, once it has finished (it takes a few seconds), it will

show a zero value.

The scales are now ready to be used. Please read this manual carefully before using the scales.

Turn the scales on by pressing the button.

The display on the scales will show a moving circle for a few seconds. After this, the display will flicker and show the zero value.



If an object is now placed on the platform, the display will show the object's weight.

Press the button to select the weighing unit you want to use ("kg or g" are shown by default, depending on the device's

configuration".

Place the object you wish to weight on the platform. The display will show the object's weight. This value must be read when the **"stability" O** symbol is on, in the top left corner of the display.



DEVICE RESET

If the platform is empty and the display is not showing a value of zero, press



USING THE TARE

Fixed tare

Place a container on the platform. The indicator will show its weight. After pressing the \leftrightarrow button, the scale will now show

the "0" value, subtracting the container's weight. The tare indicator \rightarrow T \leftarrow now shows on the left side of the display.

Now, the indicator shows the net weight of the objects placed inside the container.



again.



If you remove all the weight from the weighing platform, the indicator will show a negative tared weight.

To clear the tare value, remove all weight from the platform and press the \leftrightarrow button.

Note: If there is a certain instability or temperature fluctuations, the indicator may not show 0. Press the to button to

correct it.

Maximum tare range: The tare value cannot exceed the scale's maximum capacity. The usable available capacity of the platform, once the tare has been performed, is calculated by subtracting the current tare weight from the maximum capacity.

Usable capacity = max.cap - tare.

WEIGHT SUM TOTAL

This function sums up all individual weighing operations that have been accumulated and shows the total accumulated value.

To use this function, place the object you want to weigh, and when the display shows the stable weight value (stability circle must

be on), press the $M \rightarrow$ button. The weight value will now be added (when the printer is plugged in it will print the header as

well as the first weight value, if this option is set up).



To add the weight of another object, the previous one must be removed. Make sure the display has returned to zero and the stability symbol is on. Only then can the operation be repeated.

Press the

button again and the second weighing value will also be added (it will be printed on a different ticket line if the

printer is turned on and set up). For a few seconds, they display will also show the accumulated total.



More weights can be added by following this method. To check the accumulated value without printing, press \uparrow and the display will show the accumulated total. To get the sum total value, closing the sum accumulation of weights, press the $\leftarrow \square$ button and the screen will display the total value (when the printer is connected and set up, it will print the bottom of the ticket with the footer, if it's enabled) You can keep adding weighing values, and checking the total value. To erase the memory, press \square until the message "rESEL" appears on the display.

Internal test

This function turns on all the icons on the display to check their status. After this, it shows the capacity, the resolution and the device software version.

button for two seconds. Once the visualisation

To perform this test, from the main screen (weighing mode), press the

has finished, it will return to the regular working mode.

Blocking the touchpad



have easy access to the configuration menu and cannot modify the scales' settings by accident.

To block the touchpad, press the count button for 5 seconds until the display shows the message "Loch". Now, only buttons



To activate the touchpad again, press the () button for 5 seconds until the display shows the "unluch" message. Now, the touchpad is active again.

| User menu | |
|-------------|--|
| | No. of item to be printed and editing of item name |
| | Batch no. |
| → PLuPro 3 | Designate weight limit |
| → [LuPro] 4 | Select memory slot for piece-counting function |
| → ĽLuPro 5 | Designate pre-set tare weights |
| | Hold weight function |
| | Auto-tare function |
| FiltEr 8 | Select weight filters |
| → bL-5EL 9 | Backlight mode |
| → beep 10 → | Enable sound |
| Ruto-D 11 | Select auto-off mode |
| | Standard communication/transmission options |
| | Edit ticket format for printing |
| ·Count 14 | Internal counts |
| | Date and time |
| → Color 16 | Select colour pallet |
| | Activate units |
| Profied 18 | Select printer model |

To access the functions set up menu, press the

PLU ^b

button briefly. The message "n IEEI" will appear.

This indicates that you have entered the functions set up menu. It has 18 different options that include several functions and settings of the indicator. To scroll through the menu, submenu and data editing, follow these instructions:



ILEN: п Item no. that will be printed and item code editing. n Lot: Batch number. PLuPro: Designation and storage of weight limits. [LuPro: Selection of the memory slot for piece-counting function. ELuPro: Designation and storage of preset tare weights. hold: Weight maintenance function on screen. Rut-t: Auto tare function. F iller: Selecting different weight filters. 6L-SEE: Selecting backlight activation. **BEEP**: Sound on / off. Ruto-O: Auto power off of the device. uRrt: Setting of standard communication parameters. Profro: Editing the ticket format for printing. Lount: Visualisation of internal device counts. רבב: Setting of date and time. Color: Selecting the colour palette of the display light. un it: Activation / deactivation of measurement units. Profiled: Printer model selection.

PRODUCT CODE - n IEE



Manual function

This function is used to memorise a product code. It must have a maximum of 6 alphanumeric characters. There is a maximum of a 100 item codes that can be memorised.



When in regular weighing mode, we can now upload the code of any of the 100 memorised items. Press the

button and

then immediately press

. Now (following the procedure above) we can choose the code of the required item and it will

stay programmed. When we have, a printer connected to the data output, and the printing parameters are correctly set up, we will get a ticket with the product code that we have at the time.

Scanner function

This device allows uploading an item code (Item) through a scanner with a RS232C output, connected to the optional COM2 data output/input.

This is a simple function. Once the scanner is connected to the COM2 port, proceed to scan the bar code of the product. The indicator will now memorise the last 6 digits of the code.

The code will be printed along with the weight on the same printing line. To change, scan another code and the indicator will always memorise the last entered code.

Batch number - o Lot



This function allows you to edit the batch number that will be printed on the ticket, if this ticked option is enabled.

To access this function, when on the main screen (weighing mode), press we band scroll through the menu by pressing with the menu by pressing with the menu by pressing we enter this option by pressing (). A 6-digit number will show. It can be modified to insert the desired value, which must be between 1 and 999999. Validate by pressing the () button.



Weight limit function helps to indicate if a weight is within a particular range, transmitting a visual signal through the colours on the display and the bottom bars of the display with the option of also sending out a sound signal through the indicator.

The indicator shows a bar with a negative left side and a positive right side. The indication of limits through the lighting of the display can be set up in this menu, as well as the type of sound signal that will be sent out.

This function can be used with our optional relay card for the connection of external warning or control elements.

The indicator has 20 memory slots for this function.

Memorising weight limits and response mode

1. Press \longrightarrow and search for the "PLuPro" option in the menu. Press the \bigcirc button to confirm. The display

will show 'PLU XX', where 'XX' is the memory slot for the limits function.

2. To access the required memory slot, use the position until you find the desired one.

3. Confirm by pressing (-).

4. It will show 'ERr' for a moment and then it will immediately show 'DDDDDD' where the nominal value must be entered



- 9. Lastly, it shows 'cflodEX' where you can set the colours to be used for the signalling of limits. In this case 'X' can be:
 - **G**. Red and green are used.

. Yellow, red and green are used.



Activating the Limit (+/-) function

1. Keep the B/N button pressed until it shows "H -LoX", where 'X' indicates what mode the function is in. These

can be:

- **[]**. Disabled.
- I. Limits with sound and light indication.
- **2.** Limits with light indication and automatic tare.







- 5. Place the object on the platform. The indicator will illuminate a part of the bottom bar (and the display colour will be green vellow or red according to the selected ontion), depending on the weight value and the memorised limits. The (+)
 - green, yellow or red according to the selected option), depending on the weight value and the memorised limits. The (+) or (-) symbol will also appear. If the weight is within the selected limits, it will light the central bar value and the corresponding colour.





This mode is used to count pieces of a similar weight. After carrying out a sample weighing, the indicator will memorise the individual weight of the pieces. Then it will display the total number of pieces placed on the platform.

Sampling

To carry out the sample weighing, the scales must show the 0 value and the platform must be empty. Press and hold the



button for more than one second until the display shows " \square " or another flashing value.

This is the number of pieces you can place on the platform to do the sampling. If the pieces are small, it's recommended you put

more than 10 pieces in order to increase the device's precision. To do this press to increase the sampling value up

to 20, 30, 50 or 100. To reduce it, press the





Once the required value is selected, count the number of pieces indicated on the display, add them to the platform and press the button. The display will stop flashing and show the sampling value.

Counting



Place the pieces you want to count on the weighing platform (they should have the same individual weight as the previous sampling). You can place the pieces inside a container if its tare is already set up (check the Using the Tare section).

The screen will show the total number of pieces.

To return to weighing mode using your standard weighing unit press



If you want to return to the piece-counting function, and count pieces of the same weight used earlier, press the



several times until the display shows the symbol.

Individual weight memory (Piece-counting)

There are 100 memory slots to save the different types of pieces for the piece-counting function.



button. The display will stop flashing and show the sampling value.

Now, this piece is saved in the selected memory slot. To save any other piece, follow the same process.

Once a piece has been saved in the memory, if you wish to use one type or another, access "L u P r a" and select the desired memory slot.



The indicator is now programmed with the selected memory.

You can now start counting pieces by placing them on the platform or into a container. The container's tare must already be set up.

Stored TARE values - ELuPro



To move to a digit on the right, press cursors. If you need to modify 5. . To modify it use the and until the digit flashes. Then follow the same process that has been indicated. a digit on the left, press and the tare weight will be memorised. 6. To exit, press once again and follow the procedure above. 7. If you need to memorise more tares, press 8. Lastly, after confirming the last memorised tare weight, the message "LLUPro" will appear. Press to exit and return to the regular weighing mode. Using the TARE memory Remove any weight from the platform. In weighing mode, hold the button until the "LLI XX" message appears, where 'XX' is the last TARE slot that was memorised or used. To access another memory slot, use the and cursors to navigate the tare memory until the slot that you wish to use is located. button. The display will show the memorised tare value with a negative sign. Now you can To confirm it, press the place product on the platform and the tare value will be deducted from the weight value (it shows the net weight). All this operation can be carried out with the object on the platform. The display will indicate the net weight value. To stop using this tare, remove the weight and press the button.

Auto Hold function - hold



This function automatically sets the container or box's tare weight so that it can be then filled up, with no need to press the



The indicator detects the first weight (container), it tares the platform and it prepares to weigh the following product inside the container or the box. When the weight is removed from the scales, the tare is automatically disabled.

Activating this function

To use this option, the Auto tare, function must be enabled as follows:



Using the function

- 1. Place the container or box on the platform. The indicator will carry out the function. The display will show zero and the tare symbol will show on the display.
- 2. Place the object or objects inside the container or box. The display will show the net weight, deducting the tare or the container's weight.
- 3. Remove all the items from the platform. The display will cancel the tare and it will show zero again.
- 4. To weigh another product, repeat the process. This can be repeated as many times as required, without needing to press any of the indicator's buttons.

Stability filter - F LEEr



In adverse environmental conditions or when the indicator is used for to weight unstable objects, the scales stability can be increased by using filters.

To access the functions menu, press

and the display will show "n IEEA".



be modified according to the following table:

- FLEr D Factory programming (for qualified personnel only)
- FLEr I-For very stable environments (quick response)
- FLEr 2 For not so stable environments (average response)



Activating the display's light - 6L-5PE



When pressing any key on the indicator it will emit a sound. This sound can be enabled/disabled as follows:



Auto-off function - Ruto-O





RS-232 Data output configuration - uR-E



The device has a standard data output and an optional one.

To access the configuration settings of these data outputs, press until you see the "uRrE" and then press message. to confirm. You will see the following options for data transmission speed: Press $\Box\Box$ | - 1200 bauds Ъг $\Box\Box = 2400$ bauds Ъг Ьг 004 – 4800 bauds hr 009 – 9600 bauds Ьг 🛛 19 – 19200 bauds **38** - 38400 bauds Ъг Ьг 057 – 56800 bauds hr | |5 – 115000 bauds choose the required option and confirm with By using and

The message "Lr - P X" will appear ('X' is the number for the port redirection to simple ticket; 0 = deactivated, 1 = send through Port 1 (standard), 2 = send through Port 2).



The message " $|E \Pi P \equiv$ " will appear ('X' is the number for the port redirection to accumulated ticket; 0 = deactivated, 1 = send through Port 1 (standard), 2 = send through Port 2).



The message "PE - PX" * will appear ('X' is the number for the port redirection to send continuous transmission (used for virtual key); 0 = deactivated, 1 = send through Port 1 (standard), 2 = send through Port 2).



The message "doLP \equiv " \leq will appear ('X' is the number for the selection of the port for dollar protocol \$ transmission; 0 = deactivated, 1 = send through Port 1 (standard), 2 = send through Port 2).



The message " $r EPP \equiv$ " will appear ('X' is the number of the port for the redirection from the repeating remote port ; 0 = deactivated, 1 = send through Port 1 (standard), 2 = send through Port 2).



The message " $bE - P \equiv "$ will appear ('X' is the number of the port for the barcode reader ; 0 = deactivated, 1 = connected to Port 1 (not recommended), 2 = connected to Port 2 (standard)).



The message "PE2P X" will appear ('X' is the number of the port for "USB K3"; 0 = deactivated, 1 = Connected to Port 1, 2 = Connected to Port 2).

The message " $5\pi d X$ " will appear, where 'X' is the number where the type of output/input must be selected, from the different options:

- 🛛 : Print ticket.
- *l*: Print ticket.
- 2: Bar code reading.
- 3: USB K3.

To exit the menu and return to the weighing mode, press

* The transmission protocol followed to send a continuous frame, when using the dollar protocol, or when the PC-P option is activated, is the following:

Protocol: 8 bits, no parity, 1 bit stop.

The indicator sends the following byte frame (always 14 bytes long).

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 02h | 49h | 20h | 20h | 20h | 30h | 2Eh | 30h | 30h | 30h | 6Bh | 67h | 0Dh | 03h |
| STX | | spc | spc | spc | 0 | | 0 | 0 | 0 | k | g | CR | ETX |

- **0** Beginning of text
- 1 Status (zero, net, stable, unstable, etc.)
- 2..9 Numeric values (ASCII)
- **10** K unit or space (ASCII)
- **11** G unit (ASCII)
- 12 Carriage return
- 13 End of text

When the indicator transmits this byte frame, the printer must show a label with the received weight.

Status byte explanation (Byte 1)

GROSS WEIGHT (POIDS BRUT)

if (status AND 01h) = 01h

Gross = true

else

Gross = false

```
NET WEIGHT(POIDS NET)
```

```
if ( status AND 02h ) = 02h
```

```
Net = true
```

```
else
```

Net = false

STABLE WEIGHT(POIDS STABLE)

if (status **AND** 04h) = 04h

Stable = true

else

Stable = false

ZERO (ZÉRO)

if (status AND 08h) = 08h

Zero = true

else

Zero = false

Numeric values explanation (Bytes 2..9)

Depending on the decimal point there are six possible combinations:

| 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|-------|---|---|---|---|---|---|-------|
| Space | 9 | • | 9 | 9 | 9 | 9 | 9 |
| Space | 9 | 9 | | 9 | 9 | 9 | 9 |
| Space | 9 | 9 | 9 | • | 9 | 9 | 9 |
| Space | 9 | 9 | 9 | 9 | • | 9 | 9 |
| Space | 9 | 9 | 9 | 9 | 9 | | 9 |
| Space | 9 | 9 | 9 | 9 | 9 | 9 | Space |





The printer data output can be set up with 5 different printing formats, according to the following versions:

Format 1

Format 2

| Weight no.: | #00010 |
|-------------|----------|
| Net W.: | 0.500 kg |
| Tare: | 0.000 kg |

| Weight no.: | #00011 |
|-------------|----------|
| Net W.: | 0.500 kg |
| Tare: | 0.000 kg |
| Gross W.: | 0.500 kg |
| | |

Weight no.: #00012 Unit weight: 0.008 kg Tare: 0.000 kg Gross W.: 0.500 kg Net W.: 0.500 kg Quantity: 65 u

Format 3

| Weight no.: | #00013 |
|--------------|----------|
| Unit weight: | 0.008 kg |
| Gross W.: | 0.500 kg |
| Net W.: | 0.500 kg |
| Quantity: | 65 u |
| | |

Format 4

| Weight no.: | #00014 |
|------------------|------------|
| Weight limit: | 1.000 kg |
| Standard weight: | 0.500 kg |
| Deviation: | - 0.500 kg |
| | |

Format 5

NOTE: In all cases, the date and time are printed if the clock board is present and if it is set up for printing. The header and the ticket footer are also printed.

With the scales in weighing mode, to select the required format press

until the display shows

and then press

"ProFro".



The message "PrFn X" will appear, where 'X' is the printing format number, from 1 to 5, according to the examples shown

and

above. To use any of them, select the number using buttons

Press (\leftarrow) to confirm the function. The display will show the "LFn" message followed by two digits. This options allows

you to select the number of empty lines that must be printed after the ticket has been finished. If you set it to 1 or 0, the printer won't leave any space between the data blocks. If you choose a higher value (for example 10), the printer will leave 10 lines after printing.



The message "LRn" will appear, followed by a number. Here you can select the printing language. This digit must be selected according to the following table:

- **D**. English
- I. Spanish
- **2.** French
- **J.** German



The message "EPro X" will appear. By modifying 'X' we can choose when the printing will be carried out. (0 = when the button is



The message "dot X" will appear. By modifying 'X' we can choose the transmission format to "USB K3". (0 = sends a comma (","), 1 = sends a period (".")).



The message "hERd X" will appear ('X' is the number where the printing of the header and footer of the ticket are chosen. 0 = Does not print ticket header or footer, 1 = Prints ticket header and footer).



The message "L in I X" will appear ('X' is the number where the line 1 printing is selected 1; \Box = do not print, 1 = small font size, Z = double height font size, \exists = double width font size, \exists = double height and width font size).

Note: The simple width font sizes (options 1 and 2) will print 32 characters. The double width font sizes (options 3 and 4) will only print 16 characters, even when more have been entered. To centre the characters, white spaces must be left if necessary.



If an option other than '0' has been selected, the line will appear with the default characters (it prints the manufacturer's name by default). This can be changed for the desired characters as follows:

The first character is highlighted with a flashing underscore. Using \bigcirc and \bigvee you can change it for the

suitable one, according to the following table and in this order:

ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 1234567890,'.:-_@

You can enter lower and upper case letters, numbers and symbols. The battery symbol now indicates the letter type according to the following order:



numbers and symbols lower case letters upper case letters

To change these fonts, press always during the editing and the font type will change (upper and lower case letters always

appear the same. To know which type they belong to, check the number of batter bars).

If you wish to delete all characters of the line that you are editing, press and hold ______ until they disappear.

To scroll left or right, use the $\left(\bigwedge (MR) \text{ and } M \right) \rightarrow$ buttons. Follow the instructions above to edit all characters. Then press

to confirm the line.

The message "L in 2 X" will appear ('X' is the number where the line 2 printing is selected 1; $\Box =$ do not print, 1 = small font size, 2 = double height font size, 3 = double width font size, 4 = double height and width font size).

Follow the previous instructions to edit the second line of the ticket header. Once this has been done, confirm with the [<--] button.

The message "L in \exists X" will appear ('X' is the number where the line 3 printing is selected 1; \Box = do not print, 1 = small font size, \exists = double height font size, \exists = double width font size, \exists = double height and width font size).

Follow the previous instructions to edit the third line of the ticket header. Once this has been done, confirm with the

button.

Note: The first three lines will be printed as the ticket's header, before the rest of the data. Lines 4 and 5 will be printed as the ticket's footer at the bottom.

The message "L in \forall X" will appear ('X' is the number where the line 4 printing is selected 1; \square = do not print, 1 = small font size, 2 = double height font size, 3 = double width font size, 4 = double height and width font size).

Follow the previous instructions to edit the first line of the ticket footer. Once this has been done, confirm with the

button.

The message "L in S X" will appear ('X' is the number where the line 5 printing is selected 1; \Box = do not print, 1 = small font size, Z = double height font size, \overline{S} = double width font size, \overline{S} = double height and width font size).

Follow the previous instructions to edit the second line of the ticket footer. Once this has been done, confirm with the

button. Press the $\underbrace{1}_{U}$ button to exit the menu.

Printing operation

ticket, press

| In weighing mode, by pressing the key | M+) → | the indicator will send the weighing value to the printer for accumulated | printing |
|---------------------------------------|--------|---|----------|
|---------------------------------------|--------|---|----------|

in the indicated print format. The first time it will also send the header with the enabled data (ticket number, date and time, batch number) if tit has been selected. If we have also defined the "item" number, it will print this code to the left of the product's weight.

In subsequent weighings, when pressing

the indicator will send the values of the new weighings to the printer, provided

that between each weighing the indicator returns to "0". If they do not return to '0', the weight will not be accumulated. To end the

MR (and it will print the footer and the Subtotal if they have been enabled.

| UR Tr 08907 1 | AM PK avessia In Hospitalet | dustrial, Llobrega | .UN 11 t (BCN) |
|---|-----------------------------------|-----------------------|---|
| Fecha: | 21/05/15 | Hora: | 15:15 |
| Lote: | 123456 | Tiquet: | 2 |
| TUERCA Bobina Eje Tacos Ruedas Tapas | | 1 | 2.50 kg 6.15 kg 1.30 kg 4.10 kg 2.15 kg 3.2 kg |
| TOTAL: | racias por | su visita | 7.90 kg |
| G | ww.gr | am.es | |

Lastly, if you want to print a simple ticket, with any of the formats previously selected, you must use the button

The

header and footer will be printed if enabled.

Verification function of the ADC - Lount

This utility shows the reading of the Analog/Digital converter (ADC), to verify the correct operation of the indicator in conjunction with the connected weighing cell or cells.

It is useful to carry out weighing verifications and to identify possible faults without having to send the indicator to our technical support service.

M+)→ until "נסטחב" appears. Press To see the converter's reading, press , and then press to confirm.

The display will show a 6-digit number that will normally change continuously. This value indicates the internal counts of the indicator.



Date and time set up - rtc



This function allows you to set the date and time if the device has our clock board.







Note: If the device does not have the clock board installed, the message "no rtc" will appear when you try to enter this menu option.

Display colour set up - CoLor





The display will show "PRL X", where X is the colour option that is active. Using buttons

can select from the following options:

PRL 1: Light blue. PRL 2: Green PRL 3: Turquoise PRL 4: Violet.



to return to weighing mode if you do not want to change any other value within the functions menu.

we

and



This function can be used to enable or disable the lb, oz and PCS units.





This feature allows you to configure the GRAM printer model connected to the unit.



To exit the menu and return to the weighing mode, press

ESC U This unit's warranty covers any factory and hardware defects. The warranty is valid for a period of 1 year from the date of delivery.

Within the warranty period, GRAM PRECISION, SL, will be responsible for the repair cost of the scales.

The warranty does not apply to damage incurred due to improper unit use or unit overload.

The warranty does not cover shipping costs derived from sending the scales to our repair centre.

DESCARGA ESTE MANUAL EN TU IDIOMA DOWNLOAD THIS MANUAL IN YOUR LANGUAGE LADEN SIE DIESES HANDBUCH IN IHRER SPRACHE HERUNTER TÉLÉCHARGER CE MANUEL DANS VOTRE LANGUE BAIXAR ESTE MANUAL EM SEU IDIOMA



http://gram-group.com/wp-content/uploads/2016/12/MANUAL_K3_2017_ENG.pdf



EN



http://gram-group.com/wp-content/uploads/2016/12/MANUAL_K3_2017_DEU.pdf





http://gram-group.com/wp-content/uploads/2016/12/MANUAL_K3_2017_PRT.pdf



Gram Precision S.L. Travesía Industrial, 11 · 08907 Hospitalet de Llobregat · Barcelona (Spain) Tel. +34 902 208 000 · +34 93 300 33 32 Fax +34 93 300 66 98 comercial@gram.es www.gram-group.com





http://gram-group.com/wp-content/uploads/2016/12/MANUAL_K3_2017_ESP.pdf





http://gram-group.com/wp-content/uploads/2016/12/MANUAL_K3_2017_FRA.pdf

006/14122016

