

## QUICK START GUIDE















### PACKAGING

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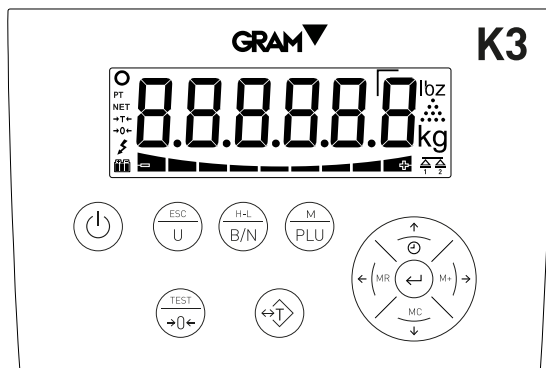
- ① 1 x 220 V/12 VDC 1A mains adapter.
  - ⊕ Accompanying documentation
  - ② 1 x K3 weight indicator
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




# KEYBOARD & DISPLAY

## LCD DISPLAY

	Displays the weight on the scale pan. In HOLD mode, the display flashes to indicate that the real weight on the scale is not being shown, with the last registered stable weight being shown instead.
kg/g lb/oz	Measurement unit used to indicate the weight.
	Counting mode activated: The display shows the amount of units, not the weight.
	Stable weight reading: There is a weight on the platform that is not fluctuating. Flashes to indicate that there is movement on the scale.
	Negative sign. This reading may be negative if a tare is activated or to indicate a problem when setting it to zero.
NET	Indicates net weight. The net weight is the actual weight on the scale minus the tare. It is only displayed if a tare has been used.
	Tare activated. The reading flashes when "normal" tare mode has been activated. A "preset" tare is retained even after the weight is removed from the scale platform.
PT	Memory preset tare. The current tare is a value recorded into the indicator's memory, it could be not necessarily a measured value.
	Scale is set to zero (weigh is less than 1/4 division)
	High resolution mode. Additional digit to show the weight with a resolution of 1/10 of the scale division.
	Double range mode, when using the scale range 1.
	Double range mode, when using the scale range 2.
	The weight is below the lower limit. The 4 segments of this indicator are activated proportionally to the difference between the weight on the pan and the value of the lower limit. The thickest segment indicates that the weight is less than the value set as a lower limit in a proportion of 100% or more.
	The weight is within the range between the lower limit and the upper (high) limit.
	The weight is above the upper (high) limit. The 4 segments of this indicator are activated proportionally to the difference between the weight on the balance and the value of the upper limit. The thickest segment indicates that the weight exceeds the value set as the upper limit in a proportion of 100% or more.
	Battery-operated. When not connected to the mains, shows the charge level of the battery.
	Connected to the mains.

# KEYBOARD & DISPLAY



-  **On / Off.** Press once to switch the indicator on. Hold the key down for 2 segundos to switch off the indicator.
-  **Counting mode** Switches between counting mode and weighing mode. When into the settings menu, it works as "escape" key: use this key to go back or exit the current menu or setting option. Clicking twice will access the counting mode settings.
-  **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 "H/L" mode (checkweigher). Clicking twice will access the "H/L" mode settings.
-  **PLU - product code.** Press this button for access the PLU memory, to select a record or edit its value. By keeping this button pressed for over a second, it enters the menu settings mode. Clicking twice activate / deactivate the "HOLD" mode.
-  **Zero / Test / High Resolution.** Zero button. It sets the scale to zero. By pressing this button for over a second, it shows the display test, capacity, division and software version. A double click activate / deactivate the high resolution mode. When editing a text value (by the way, a PLU name), switches between uppercase letters, lowercase, and numbers- symbols.
-  **Tare .** A short pulse activates the tare function. This may be "Normal tare" or "Preset tare" depending on the operating mode selected in the settings menu. If there is a preset tare in the memory and the platform is empty, pressing this button deactivates the tare. When holding down the key for 2 seconds, the tare mode alternates from "preset tare" to "normal tare". Click twice (double click) for access the tare memory, to select a record or edit its tare value.
-  **M+ and right arrow.** Press this arrow for add the weighing to the accumulated ticket (if it was not already started, it will start a new ticket) 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.
-  **MR and left arrow.** By pressing this button it closes and sends the accumulated ticket data. It shows the total accumulated weight. In menu mode, returns to the previous menu
-  **Enter.** Pressing this button on the main screen, it sends current weight data to the printer (simple mode). By pressing this button for 5 seconds, it will activate the lock/unlock function of the touchpad. In menu mode, it confirms the selection/modification made.
-  **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.** In menu mode, it decreases the value (digit) of the display. When keep pressing over a second, performs the "Clear" function: Cancel the tare, cancel the "hold" mode, and resets the total weight.

# SCALE SETTINGS - MENU OPTIONS

**For access the settings menu keep the M/PLU key pressed down for 2 seconds.**

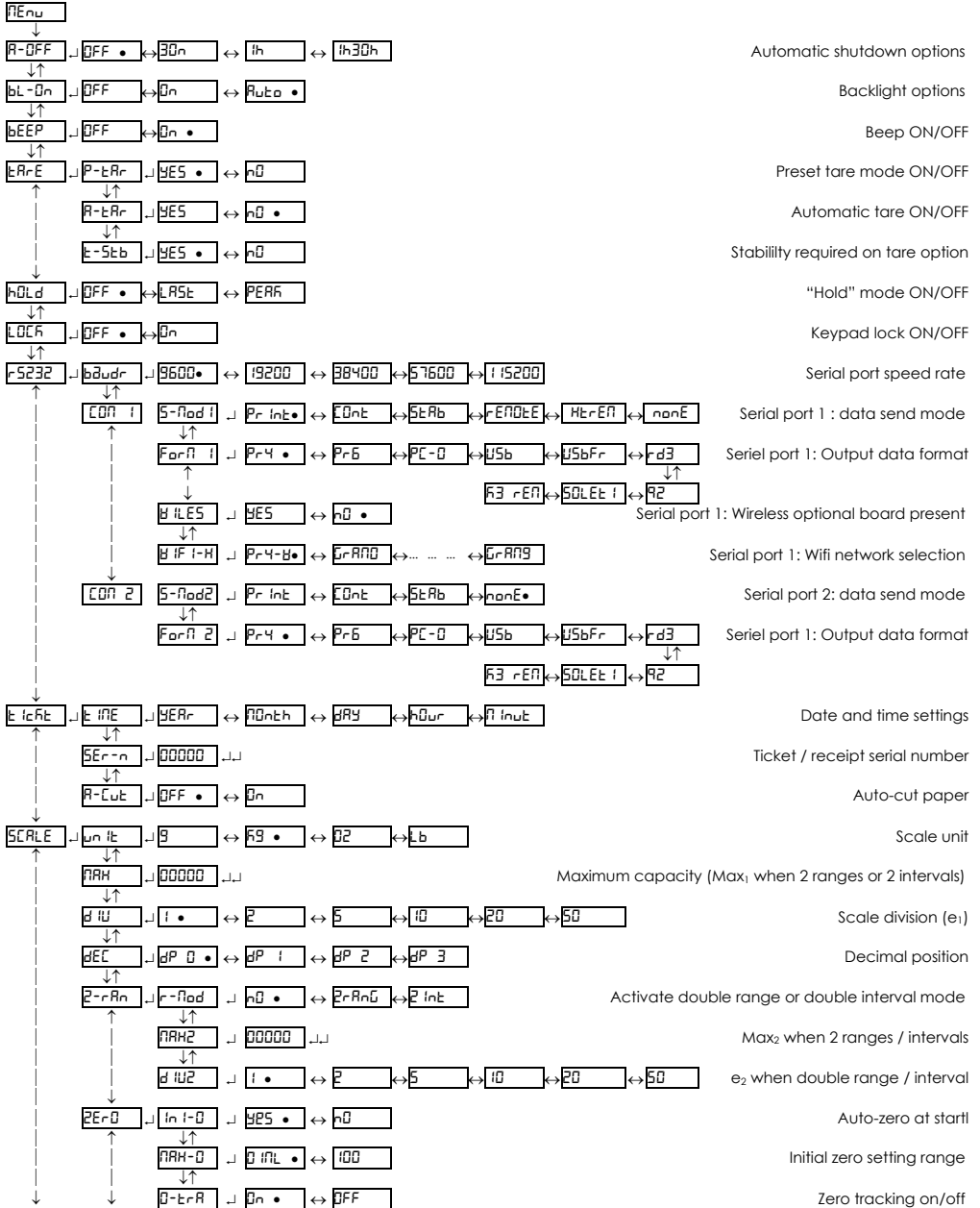
- ↓ validate the current setting / moves to the next digit when editing a numeric value
- ↵ validate a manually input value.

**ESC** Returns to the menu's previous level without making any change.

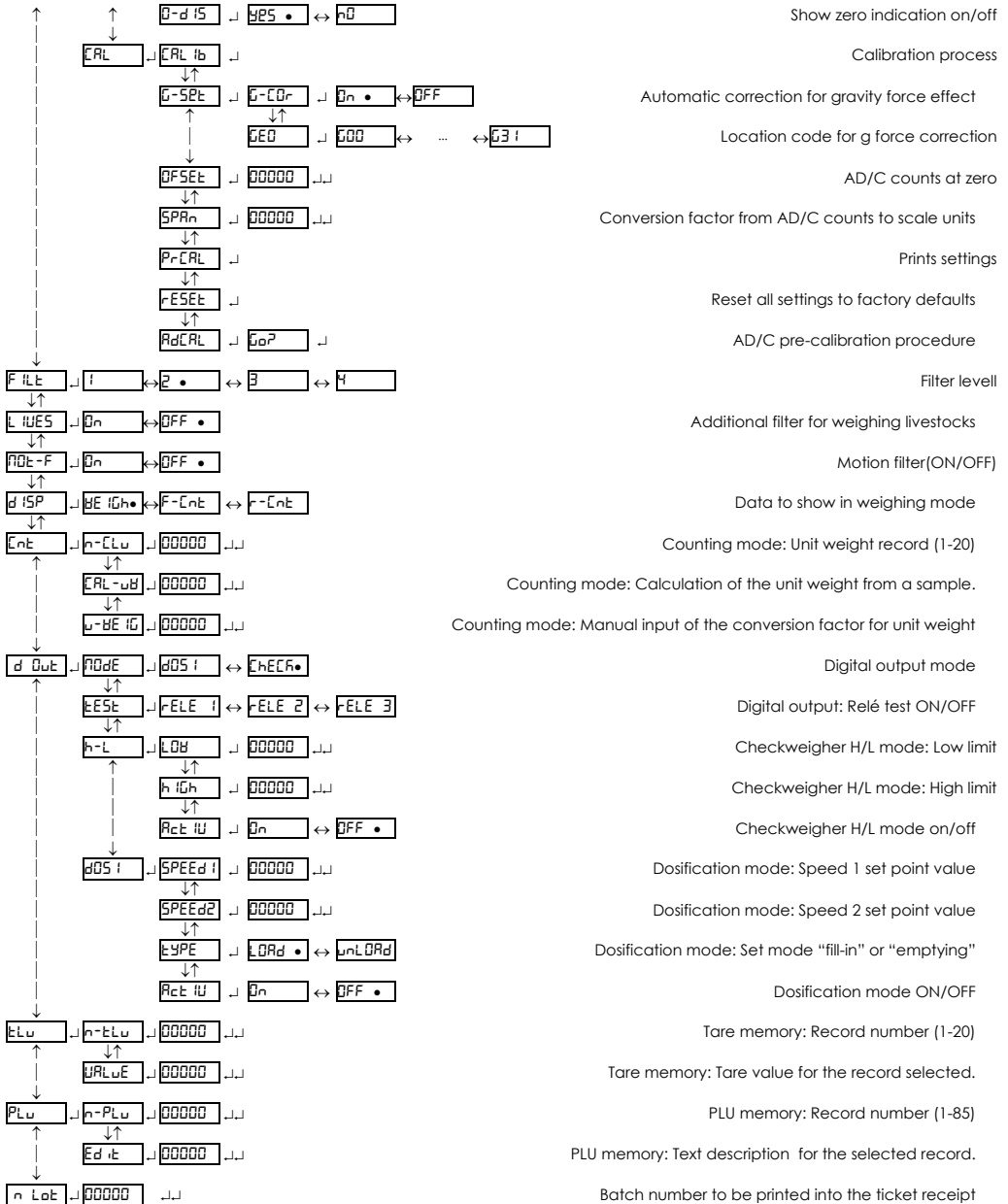
← → change to the next / previous option.

↓ ↑ changes between the different values that can be assigned to a specific option.

● Factory setting



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● Factory setting



# SCALE CALIBRATION

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At the **SCALE** menu you will find the settings needed to define and adjust the measurement scale of the instrument: Measurement unit, maximal capacity, scale interval (division), decimal point, as well as different options related to the operation of the auto-zero device.

Access to these configuration options is reserved for technical personnel and is protected by a keyword to avoid accidental changes that would cause the instrument to malfunction.

It is possible to directly access the adjustment (calibration) function of the instrument when the indicator is turned on.

To do this, turn on the indicator, and while the LCD test appears with all segments on, press the  and  keys at the same time (one short press, not sustained).

Once you have entered the access code to the scale settings menu, with the scale empty, select the option **LR lb**.

1. The display will show that the acquisition of the initial zero value is in progress with the blinking message "**LR 0**".
2. Once the zero value has been adjusted, place the adjustment weight (a standard weight) on the load receptor.
3. Enter the weight value in the indicator, including the decimal positions. Use the cursor movement keys to move through the different positions on the display.
4. Once you enter the weight value, double click the **↓** key to validate and move to next step. The display will show the blinking message "**-LR -**" while acquiring the adjustment value
5. Lastly, it will show the message "**GE0**" for a few seconds, asking for the code of the geographical location where you did the adjustment.

The geographical location code is a value from 0 to 31, which you have to choose from the attached table. Use the **↑** and **↓** keys to change the value and validate by clicking on the **↓** key.

6. Lastly, the message "**SCALE**" will briefly appear, indicating that the adjustment has been saved in the non-volatile memory. The indicator returns to normal use mode, displaying the weight on the load receptor.

If the automatic correction of the weight according to the geographical latitude and height ("**GE0** option") is set to ON, the next time you switch on the indicator after an adjustment, once the display test and initial welcome message is completed, the user will be asked to enter the value corresponding to the geographical area where the scale will be used.

Once the value has been entered for the geographical area where the scale is placed, it is recorded in the non-volatile memory of the indicator, and the user will not be asked for it again.

The geographical area where the scale is used can be modified later whenever you wish by entering the menu with **MENU → SCALE → LR → G-SET → GE0 → G nn** (being nn{0-31}).

The automatic correction of the setting according to geographical area can be disabled by entering the menu with **MENU → SCALE → LR → G-SET → G-Cor → OFF**

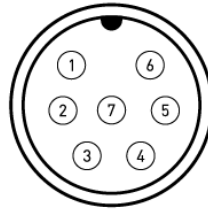
# TABLE OF GEOGRAPHICAL ADJUSTMENT VALUES

Geographical latitude in the northern or southern hemisphere in degrees and minutes.	Elevation above sea level in metres										
	0	325	650	975	1300	1625	1950	2275	2600	2925	3250
	325	650	975	1300	1625	1950	2275	2600	2925	3250	3575
	Elevation above sea level in feet										
0	1060	2130	3200	4260	5330	6400	7460	8530	9600	10660	
1060	2130	3200	4260	5330	6400	7460	8530	9600	10660	11730	
00°00' - 05°46'	5	4	4	3	3	2	2	1	1	0	0
05°46' - 09°52'	5	5	4	4	3	3	2	2	1	1	0
09°52' - 12°44'	6	5	5	4	4	3	3	2	2	1	1
12°44' - 15°06'	6	6	5	5	4	4	3	3	2	2	1
15°06' - 17°10'	7	6	6	5	5	4	4	3	3	2	2
17°10' - 19°02'	7	7	6	6	5	5	4	4	3	3	2
19°02' - 20°45'	8	7	7	6	6	5	5	4	4	3	3
20°45' - 22°22'	8	8	7	7	6	6	5	5	4	4	3
22°22' - 23°54'	9	8	8	7	7	6	6	5	5	4	4
23°54' - 25°21'	9	9	8	8	7	7	6	6	5	5	4
25°21' - 26°45'	10	9	9	8	8	7	7	6	6	5	5
26°45' - 28°06'	10	10	9	9	8	8	7	7	6	6	5
28°06' - 29°25'	11	10	10	9	9	8	8	7	7	6	6
29°25' - 30°41'	11	11	10	10	9	9	8	8	7	7	6
30°41' - 31°56'	12	11	11	10	10	9	9	8	8	7	7
31°56' - 33°09'	12	12	11	11	10	10	9	9	8	8	7
33°09' - 34°21'	13	12	12	11	11	10	10	9	9	8	8
34°21' - 35°31'	13	13	12	12	11	11	10	10	9	9	8
35°31' - 36°41'	14	13	13	12	12	11	11	10	10	9	9
36°41' - 37°50'	14	14	13	13	12	12	11	11	10	10	9
37°50' - 38°58'	15	14	14	13	13	12	12	11	11	10	10
38°58' - 40°05'	15	15	14	14	13	13	12	12	11	11	10
40°05' - 41°12'	16	15	15	14	14	13	13	12	12	11	11
41°12' - 42°19'	16	16	15	15	14	14	13	13	12	12	11
42°19' - 43°26'	17	16	16	15	15	14	14	13	13	12	12
43°26' - 44°32'	17	17	16	16	15	15	14	14	13	13	12
44°32' - 45°38'	18	17	17	16	16	15	15	14	14	13	13
45°38' - 46°45'	18	18	17	17	16	16	15	15	14	14	13
46°45' - 47°51'	19	18	18	17	17	16	16	15	15	14	14
47°51' - 48°58'	19	19	18	18	17	17	16	16	15	15	14
48°58' - 50°06'	20	19	19	18	18	17	17	16	16	15	15
50°06' - 51°13'	20	20	19	19	18	18	17	17	16	16	15
51°13' - 52°22'	21	20	20	19	19	18	18	17	17	16	16
52°22' - 53°31'	21	21	20	20	19	19	18	18	17	17	16
53°31' - 54°41'	22	21	21	20	20	19	19	18	18	17	17
54°41' - 55°52'	22	22	21	21	20	20	19	19	18	18	17
55°52' - 57°04'	23	22	22	21	21	20	20	19	19	18	18
57°04' - 58°17'	23	23	22	22	21	21	20	20	19	19	18
58°17' - 59°32'	24	23	23	22	22	21	21	20	20	19	19
59°32' - 60°49'	24	24	23	23	22	22	21	21	20	20	19
60°49' - 62°09'	25	24	24	23	23	22	22	21	21	20	20
62°09' - 63°30'	25	25	24	24	23	23	22	22	21	21	20
63°30' - 64°55'	26	25	25	24	24	23	23	22	22	21	21
64°55' - 66°24'	26	26	25	25	24	24	23	23	22	22	21
66°24' - 67°57'	27	26	26	25	25	24	24	23	23	22	22
67°57' - 69°35'	27	27	26	26	25	25	24	24	23	23	22
69°35' - 71°21'	28	27	27	26	26	25	25	24	24	23	23
71°21' - 73°16'	28	28	27	27	26	26	25	25	24	24	23
73°16' - 75°24'	29	28	28	27	27	26	26	25	25	24	24
75°24' - 77°52'	29	29	28	28	27	27	26	26	25	25	24
77°52' - 80°56'	30	29	29	28	28	27	27	26	26	25	25
80°56' - 85°45'	30	30	29	29	28	28	27	27	26	26	25
85°45' - 90°00'	31	30	30	29	29	28	28	27	27	26	26

# CONNECTIONS

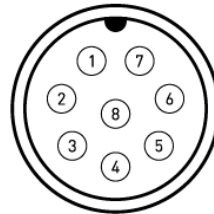
## Load cell

PIN	SIGNAL
PIN 1	SIG -
PIN 2	SIG +
PIN 3	SHIELD
PIN 4	EXC -
PIN 5	SENSE -
PIN 6	EXC +
PIN 7	SENSE +



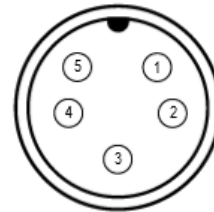
## RS-232 serial interface

PIN	SIGNAL
PIN 4	RxD
PIN 5	TxD
PIN 6	GND



## XTREM scale connector

PIN	SIGNAL
PIN 1	+Vcc
PIN 2	TxD
PIN 3	RxD
PIN 4	Not connected
PIN 5	GND

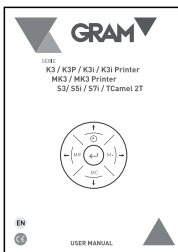


## MORE INFORMATION

Download the full manual from the following link:



[https://gram-group.com/wp-content/uploads/2018/04/Manual\\_K3-V4.00x\\_ENG-A5\\_R1\\_D2.pdf](https://gram-group.com/wp-content/uploads/2018/04/Manual_K3-V4.00x_ENG-A5_R1_D2.pdf)



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