Value Each Gram A professional weighing products manufacturer and supplier

WEIGHT INDICATOR **X7CC**

User Manual

v.201811

HiWEIGH Weighing system & solution
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Value Each Gram

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Weighing system & solution

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1. EXCITATION

Input	100～240V
Output	12V 1000mA
Rechargeable Battery	6V/4Ah

2. BEFORE ITS USE

1. Use an independent electric source to prevent electronic disturbances.
2. Don't place any object on the platform when switching on the indicator.
3. Please, warm-up the scale during 2-3 minutes before using it.
4. Avoid sudden changes in temperature and draughts.
5. Don't overload the scale; do not exceed its maximum capacity.

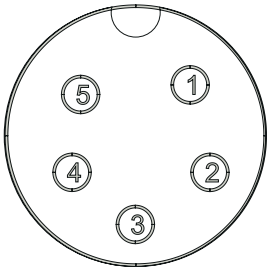
3. CONSUMPTION

Battery life:	without backlight, approx. 160 hours.
	With backlight, approx. 90 hours.

4. LOAD CELL CONNECTION TO THE INDICATOR AND RS232(OPTIONAL)

- Do not disconnect the connector of the load cell when the indicator is working, because you could damage the equipment.

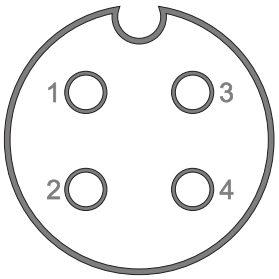
LOAD CELL



PIN 1	EXC +
PIN 2	EXC −
PIN 3	SIG +
PIN 4	SIG −
PIN 5	GND

For 7-wire load cells, please short connect SENSE+ with EXC+, and SENSE- with EXC-

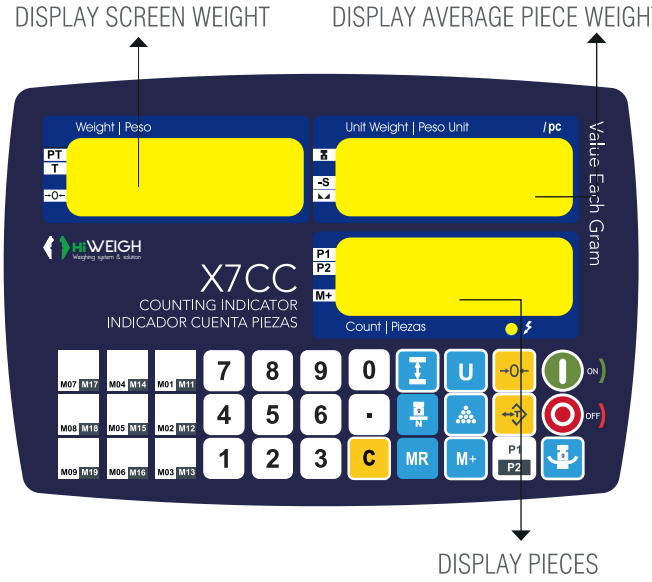
RS232



PIN 1	TX
PIN 2	SC
PIN 3	GND
PIN 4	SC

precision	Class III
Sensitivity Cell	1.5 ～3.0 mV/V
Internal Resolution	300.000 ～ 600.000
selectable division	1 / 2 / 5

5. KEYBOARD DESCRIPTION



PT	indicates that a Pretara has been realized
T	indicates that a tara has been realized
→0←	indicates that a "0" has been realized
	indicates that the weight is stable
P1	indicates that we are acting on P1 bank memory
P2	indicates that we are acting on P2 bank memory
P2	Indica que estamos actuando sobre el banco de memoria P2
M+	Indicates that there is stored information
	Indicates insufficient weight
-S	Indicates insufficient example
	Indication of battery goes down, connect the equipment to its adapter.

	1a. function: Press this key to switch on the scale.
	1a. function: press and hold the key during 3 seconds to switch off the indicator.
	1a. function: Indicates that the value entered is the number of pieces on the plate.
	1a. function: Indicates that the value entered is the number of average piece weight
	1a. function: Activation upper limit. **2a. function:** Desactivation upper limit.
→0←	**1a. function:** to place the reading of the display at "0", the value of the display must be lower to + 2% of the maximum capacity. **2a. function:** to move the programming mode.
	1a. function: to remove (tare) the weight of a container. **2a. function:** to move to the menu.
M+	**1a. function:** accumulate in memory the value of the weight that appears in the screen. **2a. function:** confirmation key in the programming mode.
MR	**1a. function:** to view the number of accumulations and the accumulated weight. **(TOTALIZING)** **2a. function:** to remove the memory of the accumulations.
P1 P2	Select the memory bank of the PLU . Of M01 to M09 and M10 to P1 P2 M18
M07 M17 M03 M13	**1a. function:** Upload the PLU stored.
C	**1a. function:** Delete entry. **2a. function:** go back on the status menu.
0 9	**1a. function:** numeric keypad.
U	**1a. function:** to choose the unit of weight.

6. APPLICATIONS

6.1 PRETARE

Without a weight on the plate to press the key . Enter the pretare value using the numeric keypad. to remove the pretare, press again with empty plate.

6.2 WEIGHING MODE

6.2.1 CONFIGURATION OF THE EQUIPMENT

See section LF2 of the technical parameters

6.2.2 FIRST CALIBRATION

See section LF1 of the technical parameters

6.2.3 USE

Switch on the equipment when all the parameters have been correctly configured and the equipment has been calibrated.

- Make sure than the value of the indicator, without load on the platform, is 0. If this is not the case, press →0←
- Place the weight on the platform and the platform will show the weight.
- the accumulation of data M+ depend on the mode chosen in the section Uf-5.
- You can display the accumulated values at any time by pressing MR (**TOTALIZING)**

6.3 PIECE COUNTING MODE

6.3.1 CONFIGURATION OF THE EQUIPMENT

See section LF2of the technical parameters.

6.3.2 FIRST CALIBRATION

See section LF1of the technical parameters.

6.3.3 USING A EXAMPLE (EXAMPLE)

Switch on the equipment when all the parameters have been correctly configured and calibrated equipment.

Ensuring that the value on the indicator , with no load on the platform, is 0. If this is not the case press the key →0←

Steps to follow;

1. Place the example above the platform.
2. Enter the number of example pieces and press .
3. the display unit weight calculated, indicating the number of pieces on the pan, until you press C .

6.4 USE UNIT WEIGHT

Switch on the equipment when the parameters has been configured correctly and calibrated the equipment.
Ensuring that the value on the visor, with no load on the platform, is 0. If this is not the case press the key →0← .

Steps to follow;

1. Place the Unitary weight of the example and press . Consider the unit of the unitary weight.
2. the indicator calculates the number of pieces on the pan until you press C .
3. Accumulating data M+ will depend on the mode chosen in the UF-5
   - It will be able to visualize the values accumulated at any time pressing MR (**TOTALIZING**)

6.5 ALARM

When you configured the equipment 6.3 and 6.4, you place the maximum pieces that you desire to use on the plate and press .
When the situation supered this value, the indicator will start to beep.
to deactivate the alarm, press hold on the key until to listen a double beep.

6.6 MEMORIZAR PLU

Configure the computer as described in the part 6.3 or 6.4.

Choose the memory bank where you save the PLU pressing the Key P1 P2 and then press the Key .

Choose the PLU desired.

Only stores data relating to unit weight.

6.7 MANUAL RE-ADJUSTMENT OF UNIT WEIGHT

You can automatically adjust the unit weight by pressing the key , when you have entered the unit weight 6.3 o 6.4.

7. PARAMETERS

PARAMETERS	DESCRIPTION
UF- 1	Internal calculation (A/D) and battery voltage
UF-2	Autoaverage unit weight
UF-3	auto auto off
UF-4	Back illumination of display
UF-5	accumulation
UF-6	Output RS-232(PC / PRINt) (optional)
UF-7	Configuration of the speed of the converter (A/D)
UF-8	Initial zero

8. PARAMETERS **CONFIGURATION**

To access the configuration of parameters when the screen is in zero, the user must press at the same time the keys M+ and →T←

Press the key →T← or →0← to choose the desired character (UF-1~ UF-8)

To go back to the previous mode press the key C .

8.1 INTERNAL COUNTING (A/D) | UF-1

1. Press the key M+ to view the internal sums of the scale.
2. The display DISPLAY WEIGHT will show internal countings . FS
3. The display DISPLAY AVERAGE PIECE WEIGHT will show the value of battery voltage.
4. The display PIECES will show the value counting internal of zero.
3. To exit this mode and go back to the normal weighing, the user must press the key M+ or C

8.2 CONFIGURATION AVERAGE WEIGHT OF UNIT| UF-2

1. Press the key M+ to access the parameter.
2. The display will show the message "AAvG 1 "
3. Use the keys **Numerical keyboard** to select the desired number:

AAvG 0= desactivated

AAvG 1= activated (factory default)

This function is specially designed for counting pieces, reducing and minimizing the error, obtaining this way some proved more precise.

Note:

When the function Uf-2 is activated the piece counting function is realized normally. If you add another weight which has less than twice the first sample weight, the indicator will recalculate automatically the unit weight, so that the result will be more accurate.

Example:

We have 10 pieces with a total weight of 13.7 g, the value of the unit weight will be of 1,37292g/pcs. Immediately afterwards we add 13 pieces with a total weight of 18.4 g, that is lower than the double of 13.7g (27.4g). the scale will count 23 pieces and will update the value of the unitary weight automatically, changing to 1,39384g/pcs.

8.3 AUTO SWITCH OFF| UF-3

MODES:

- **AoFF 00** – Auto switch off deactivated. (factory default)
- **AoFF 01** – Auto switch off activated in a minute. the scale is going to switch off automatically after 1 minute of not being used.
- You can configure the value wished from 1 to 99 minutes.

1. Press the Key M+ to have an access to the parameter
2. Use the NUMERICAL KEYBOARDS to select the desired number.
3. Press the Key M+ to confirm or press the Key C to return to UF-3

8.4 DISPLAY BACKLIGHTING | UF-4

MODES:

- **LIT 0:** Automatic (factory default).
- **LIT 1**: Illumination Activated.
- **LIT 2**:Illumination Deactivated.

1. Press the key M+ to have an access to the parameter.
2. Use the NUMERICAL KEYBOARDS to select the desired mode.
3. Press the key M+ to confirm or press the Key C to return to UF-4

8.5 ACCUMULATION | UF-5

1. Press the Key M+ to access to the parameter.
2. Press the **Numerical keyboards** to select the desired mode.
3. Press the key M+ to confirm.
4. Press the key C to return to UF-5

CONDITIONS OF ACCUMULATION

ACCU AB

A	**0**	stability required
	1	stability **NO** required
B	**0**	the weight has to turn to 0 to accept the following accumulation
	1	the weight **NO** has not to turn to 0 to accept the following accumulation
	2	to eliminate **TARE** to accept the following accumulation

In working mode press the M+ for accumulation.
Press MR to watch the cumulative total
Press hold down MR 3 seconds to delete the record of accumulations.

8.7 CONFIGurATION OF ThE SPEEd OF ThE CONVErTEr | uF-7

1. Press the Key M+ to access the parameter.
2. Press **the Numerical keyboards** to choose the desired mode:

Speed 0	Slow speed 7,5 Hz (factory default)
Speed 0	Standard speed 15 Hz
Speed 0	fast speed 30 Hz

3. Press the Key M+ to confirm or press C to go back to menu UF 7

8.8 BLIND | UF-8

ZP 0	off
ZP 1	one division not shown to zero (factory default)
ZP 2	two division not shown to zero
ZP 3	three division not shown to zero
ZP 4	four division not shown to zero
ZP 5	five division not shown to zero

1. Press the M+ to access the parameter.
2. Press **the Numerical keyboard** to introducier the desired value.
3. Press M+ to confirm or press C to go back to menu UF-8

9. CALIBRATION SETTINGS

1. When the user is in the normal mode of weighing, he must press the →0← and M+ , the message **ECF – 1** is going to appear on the display.
2. Press the →0← or ↔T to choose the desired function: **ECF-1, ECF-2 o ECF-3**

* ECF-1 CALIBRATION OF ZERO + WEIGHT

Press the key M+ to access.

Press the key M+ to confirm the calibration of 0.

Press the key **Numerical keyboards** to introduce the value of the weight of calibration.

Place the weight of calibration on the platform and press the key M+ to do the calibration once the reading is steady.

* ECF-2 CALIBRATION OF ZERO

Press the key M+ to accesss.

Press the key M+ to "0" calibration.

* ECF-3 CALIBRATION OF WEIGHT (SPAN)

Press the Key M+ the display will show the value of the weight of calibration.

Press the **Numerical keyboards**, to modify the value of the weight of calibration.

Place the weight of calibration on the platform and press the key M+ to do the calibration once the reading is stable.

10. TECHNICAL PARAMETERS

DO NOT MODIFY THE TECHNICAL PARAMETERS IF IT IS NOT STRICTLY NEEDED. A BAD CONFIGURATION OF THIS SECTION CAN CAUSE A WRONG FUNCTIONING OF THE SCALE.

ENTRANCE AND EXIT TECHNICAL PARAMETERS	
DISPLAY	DESCRIPTION
P 0000	With the power off, Press hold on →0← until the display shows:
0020	Enter the value 0020 with **Numerical keyboards** and press M+ to access to menu.
LF 1	the display shows [LF 1]
LF 2	Press on the key →0← or ↔T , until the display show [LF desired]
	Press M+ to acess the LF desired.

CALIBRATION OF THE WEIGHT LF 1

DISPLAY	DESCRIPTION
LF 1	the calibration can be done with any weight, but the weight ca not be inferior to 1/100 of the maximum capacity and it must also never be exceeded.
000.000kg M+	• press the key M+ to start the calibration of zero (press C to exit the calibration without to save and go back to the menu LF1)
_150.00 kg M+	• Use the Numerical **keyboard**, **0 ~ 9,** and then press M+ to introduce the weight with which the calibration will be done. (press C to exit the calibration without to save and go back to the menu LF1)
150.00 kg M+	• Place the required weight on the scale as it is indicated in the display.
150.00 kg M+	•Once everything is steady, press the key M+ to calibrate it (press C to exit the calibration without to save and go back to the menu LF1). THE CALIBRATION IS GOING TO FINISH AND THE SCALE WILL GO BACK TO THE WEIGHING MODE AUTOMATICALLY.

CONFIGURA LF 2

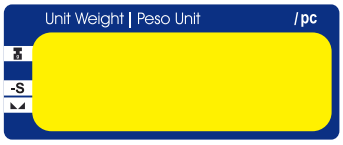
Use the keys →0← and →T← to move between the digits of the displays

weight display

000.00 kg

Enter the maximum capacity_FS. Use U to select the calibration of weighing unit. Available units are Kg, g and lb.

unit weight display



dP0 Kg

Enter the position of the decimal point. Use **the numeric keypad** to select calibration weighing unit as needed. the position of the decimal point can be from 0 to 4.

pieces display

div 0

•Use the keys 1, 2 and 5 to enter the value of the divison.

EXAMPLE

weight display

200000	On the **WEIGHT** DISPLAY to introduce the value fS by means of the numerical numbers,considering the number of decimal places to be used. Example: 2.000,00kg to must write 200000
2	Press the →T, until that you scroll at the **UNIT WEIGHT** screen,enter the decimal number that you desired. In the previous example 2 decimals.
5	Press the →T , until that you scroll at the **PIECES** screen , enter the division value. to select between 1 / 2 / 5

Note:If you have been wrong in some parameter, press →0← for scroll at the corresponding screen and correct the error.

Press M+ to confirm and save the paramters or C to go back to menu without save.

LINEAL CALIBRATION LF3

Up to six steps of calibration W0 ~W6

Ensuring that the plate of the scales is empty before to start the calibration

DISPLAY	DESCRIPTION
LF3	• press the Key M+ to start or the key C to exit the menu and the scale will start again automatically.
M+	**Note**: the pieces display shows the value of internal counts during all the p rocess.
W0	• Press the key →T to calibrate the zero.
M+	(Press the Key C to exit from the calibration and go back to the menu LF3)
W1	• place 1/3 of the maximum weight on the plate and press →T to calibrate 2/3 th the capacity. (press the key C to exit from the calibration and go back to the menu LF3)
M+	
W2	• place 2/3 of the maximum weight on the plate and press →T to calibrate 2/3 th the capacity. (press the key C to exit from the calibration and go back to the menu LF3)
M+	

W3

→T

• place the maximum weight on the plate and press the key →T to calibrate the full capacity. (press the key **C** to exit from the calibration and go back to the menu **Lf3)**

W4

→T

• Press the key →T to complete the lineal calibration. (press the key C to exit from the calibration and go back to the menu LF3)

LF3

→T

• Use the keys →T →0←, and then the key M+ to continue with other adjustments and press the key **C** to exit from the menu and the scale will begin again automatically.

*Introduce the gravity of your zone before doing the first calibration.

*Introduce the gravity of destination after doing the calibration.

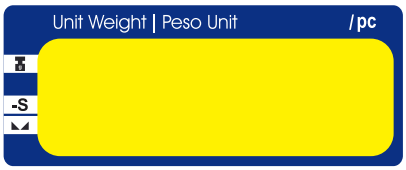
*the value of the gravity will be denied if it is bigger than 9.83217 (gravity of the pole) or inferior to 9.78031 (gravity of the equator).

Value of factory: 9.8010

DISPLAY	DESCRIPTION AND SEQUENCE OF USE
LF 7 M+	• press the key M+ to continue or the key **C** to exit from the menu and the scale will start again automatically.
9.794 M+	• Use **the number keyboard**, **0 ~ 9** to enter the value of gravity. (press **C** to exit from the configuration and go back to the menu LF7).

WEIGHT WINDOW

Indicates the calibration of gravity



PIECE WIEGHT WINDOW

Indicates the gravity of use.

*ONCE REALIZED THE CALIBRATION THE INDICATOR USES FOR FAULT THE GRAVITY OF USE.

11. ERROR CODES

weight window

hhh hhh	overwieght
Error n	unstable weight

total window

hhhhh	quantity of pieces superior to those that the display can show

12. GUARANTEE

this scale has a warranty against all manufacture and material defects, for a period of a year starting with the delivery date.
During this period, We , will be in charge of the repairing of the scale.
this warranty does not include the damages done by overload or wrong use.
the warranty does not cover the delivery expenses necessary for the repair of the scale..

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