



WEIGHT INDICATOR **X704**

User Manual

v.201811

Value Each Gram

Safety precautions



WARNING!

- ▲ Do not use X* Series indicators in hazardous area or in dusty environments.
- ▲ Never flood the Indicator, immerse it in liquid or pour liquids on it.
- ▲ Do not expose indicator to either direct sun light or any heat sources.
- ▲ Do not open the indicator!
The warranty is void if this stipulation is ignored. The indicator may only be opened by authorized persons.



DANGER!

Electric shock hazard!

- ▲ Always unplug AC adapter before performing any work on the indicator

Hazard of electric shock if the power cable is damaged!

- ▲ Check the power cable for damage regularly. Unplug the power cord immediately if the power cable is damaged.



Disposal

In conformance with the European Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE), this device may not be disposed of in domestic waste. This also applies to countries outside the EU as per their specific regulations.

Please dispose of this product in accordance with local regulations at the collecting point specified for electrical and electronic equipment.

If you have any questions, please contact the responsible authority or the distributor from which you purchased this indicator.

Should this indicator be passed on to other parties (for private or professional use), the content of this regulation must also be related.

The indicator has a rechargeable internal battery. The battery contains heavy metals. Please observe the local regulations on the disposal of environmentally hazardous materials.

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SPECIFICATIONS

Model	X704
Accuracy	III
Sensitivity	1.5~3.0mV/V
Linear	≤0.01%F.S
Voltage	DC: 5V
Division	1/2/5 option
Speed	20 times per second
Internal resolution	300,00/600,00

POWER SOURCE

Input: AC 120~240V
Output DC 10V/600mA

POWER CONSUMPTION

1. Main system: Approx. 24.1mA
2. Main system (RS-232): Approx. 44mA
3. Standby: Approx. 19.2mA
4. Battery duration: Approx. 120

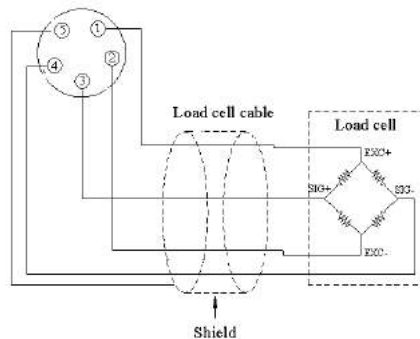
COMPONENTS INCLUDED

1. This user manual (please read it carefully before to use the indicator).
2. The indicator Series X704
3. The AC/Adaptor .

!*Keep the original package. It could be useful in the future to transport the indicator.*

CONNECTION OF INDICATOR TO A LOADCELL

Connector of 5 pins connector.



INDICATOR		LOAD CELL
+E (1)	-----	+Excitation
-E (2)	-----	-Excitation
+S (3)	-----	+Signal
-S (4)	-----	-Signal
GND (5)	-----	(GND) shield

If working with 7-wire load cells, short connect SENSE+ with +E (pin1), SENSE- with -E(pin2).

REQUIREMENTS FOR AN OPTIMUM INSTALLATION

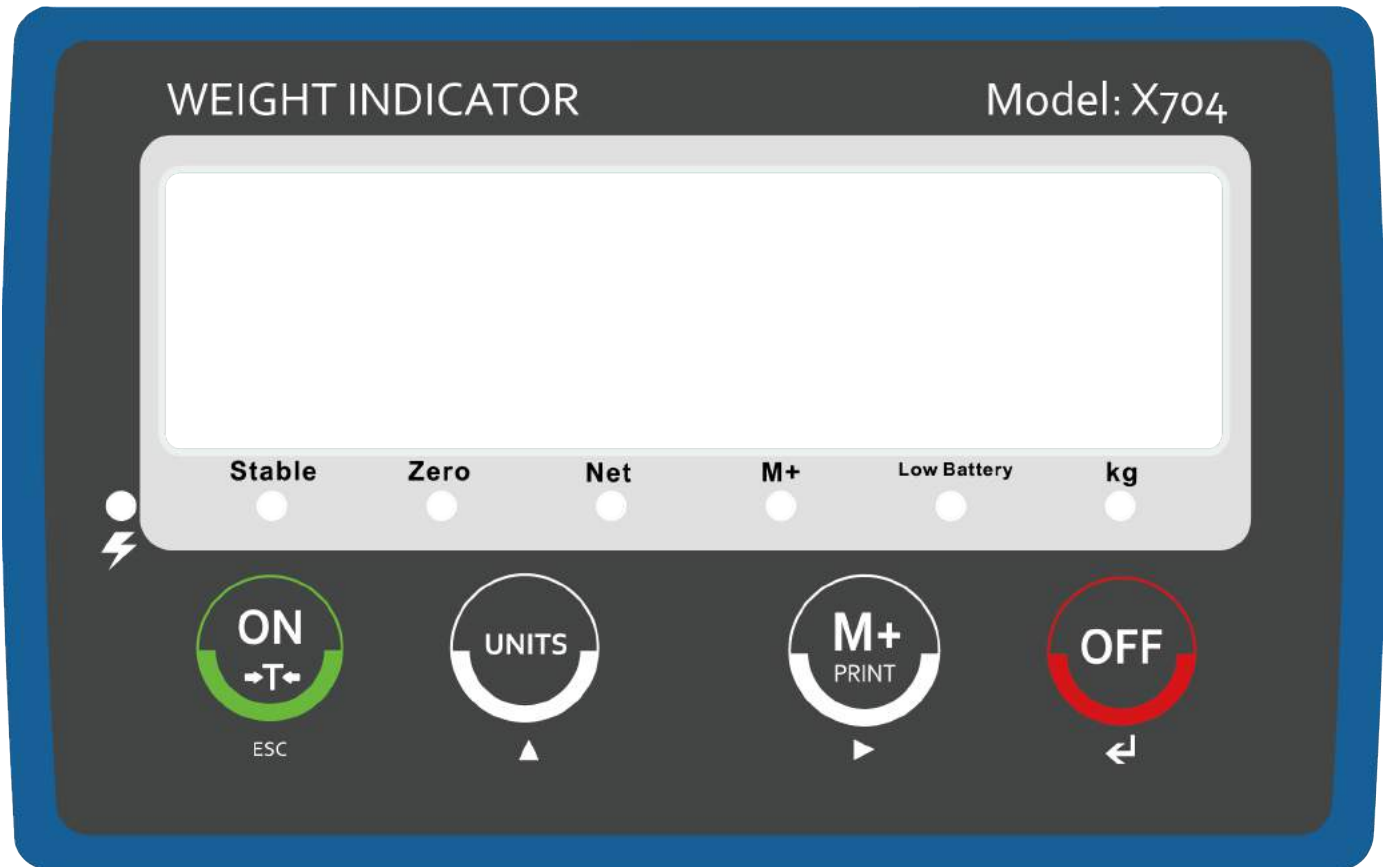
To obtain maximum performance and best results, we recommend to install the scale or indicator according to the following requirements:

- Don't expose the indicator to direct sunlight.
- Don't submit it to atmospheres with corrosive gases.
- Keep it in an environment free of dust and dirt.
- Work at temperatures between 0° and 40° C.
- Use the indicators in environments with humidity lower than 95% HR.
- Keep it away from those equipments which produce magnetic interferences and acoustical noise.

INSTALLATION

1. Place the platform on a firm and stable surface.
2. Before to connect the indicator, make sure that platform is empty.

KEYBOARD DESCRIPTION



- Function 1.** Press this key for 2 seconds to turn off the indicator.
Function 2. Press this key to confirm data in setting parameters mode.



- Function 1.** Press this key to turn on the indicator.
Function 2. To reset the weight to 0. The displayed weight value has to be less than +/-2% of maximum capacity.
Function 3. To subtract the weight of a container and then obtain the net weight of product (Tare function). The container's weight must be higher than 2% of maximum capacity.








- Function 1.** To enter to piece-counting function.
Function 2. To change the parameters in setting parameter mode.




- Function 1.** To accumulate weights.
Function 2. To print data.

PIECE-COUNTING FUNCTION

1. Press the  key for 2 seconds, the display will show "0" "kg"
2. Press again the  key, the display will show "C 10"
3. To select the sample value, press the  key
4. Put on the platform the selected number of pieces.
5. Press the  to confirm.
6. Display will show the number of pieces placed on platform.
7. Add the rest of pieces to be counted, the display will show the total number of pieces.
8. Press the  key for 2 seconds, the indicator will return to normal weighing mode.





Note: The sample unit weight must be higher than 0,2d.

TARE FUNCTION




1. Place a container on the platform.
2. Press the  key.
3. The balance will subtract the weight of container, display will show 0
4. Put the product to be weighed in the container.
5. Display will show the product's weight (net weight)















Note: The container's weight must be higher than 2% of maximum capacity.







WEIGHTS ACCUMULATION

1. Place the product on the platform.
2. Press the  key to save in memory his weight.
3. Display will show the weighing number and weight's product.
4. Remove the product from platform, display will show "0"
5. Place a new product on the platform.
6. Press again the  key to accumulate the weighing.
7. Repeat this operation as many times as it is necessary.
8. Once finished the accumulation, press the  key, to read the total weight.
9. Display will show : weighing times and total weight accumulated.
10. To clear, press the  key for 2 seconds.




FUNCTIONS SETTING











1. To access to Functions setting, press the  key and without release it press the  key, display will show the message "UF __1".
2. Press the  key to select the desired parameter, from "UF-1" to "UF---9"


Parameter	Function	Operation
UF-1	Check internal value and battery voltage	Press  , display will show the internal value, pressing again this key, display will show the battery voltage. Press  to exit.
UF-2	Parameter not available	
UF-3	Auto power off setting	Press  , display will show AOFF 00. Press  to change the parameter. . Press  to select the desired mode: AOFF00 - Auto-power off disable. AOFF01 - The indicator will auto power off in 1 minute if not use it. . Press  to exit.
UF-4	Standby setting	Press  key Press  to change the parameter. Press  to select the desired mode. Press  to exit.
UF-5	Parameter not available	
UF-6	Output RS-232	Optional
UF-7	Speed adjustment	Press  key Press  to select: 1. Fast speed 2. Normal speed 3. Slow speed Press  to exit.
UF-8	Division range display	Press  key.

		Press  to select the desired value. Press  to exit.
UF-9	Gravity value	Press the  key, display will show the G value of factory. If you want to change it according to new place (Country), press  and  to select the desired value. Press  to exit.








ADVANCED FUNCTIONS SETTING

1. To access to advanced functions setting, press the  key and without release it press the  key, display will show "ECF _1".
2. Press  to select the desired parameter, from "ECF-1" to "ECF---3"







Parameter	Function	Operation
ECF-1	Check maximal load (span)	Press  , display will show CALZ, empty the platform and press again the  key to put display reading to zero Press  key Press  to enter the value. Put a weight on the platform and press  key to confirm and exit.
ECF-2	Zero calibration	Press  key, display will show CALZ, empty the platform and press again the  key to put display reading to zero and exit.
ECF-3	Span calibration	Press  key Press  key. Press  to enter the value of calibration weight. .

		Put the calibration weight on the platform and press  to confirm and exit.
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SETTING PARAMETERS

1. To access to setting parameters, with indicator turned off, press and hold the  and without release it, press the  key continuously during the initial countdown.
2. When countdown is finished, the display will show P0000, press the  key until the third digit flashes P0000, then press two times the  key, the display will show P0020.
3. Press the  key, the display will show LF1.
4. Use the key  to select the LF1 or LF2 modes and press  to enter to desired mode.

LF1; Calibration menu








- Press the  key to enter to Calibration menu, the display will show CALZ (zero calibration value), press the  key to modify the calibration weight value. Use the  key to move a digit to the right and use the  key to increase the digit value. Once entered the value, place the calibration weight on the weighing pan and then press . The value will flash continuously, press again the  to confirm. A series of dashed will be displayed - - - - - and immediately the calibration will be completed.

LF2; Parameters setup menu

- Press the  key to enter to Parameters setup menu, the internal counts will be displayed.
- Press the  to continue.
- Display will show: 1 0 0 0 0 1
 A B C D E F

This menu, should only be modified for special configurations.

If necessary to modify:

- A : Metrical system 0 : None 1 : kg 2 : T 3 : g
 - B : American system 0 : None 1 : lb 2 : lb oz
 - C : Other units 0 : None 1 : TW Kg 2 : HK Kg 3 : VISS
 - D : Pieces 0 : Off 1 : On
 - E : Dual range 0 : Off 1 : MULTI INTERVAL 2 : MULTIRANGE
 - F : Calibration unit 1 : European 2 : American
- Press the  key to continue
 - Select the maximal capacity of the balance, taking in mind the decimals, for exemple for 150 kg -20g
015000 (The last two zeros respecte the decimal points 150.00)
 - Press the  key to confirm
To select the decimal point, press the  key to view the different options and the  to confirm.
 - Press the  to confirm.
 - To configurate the resolution of the balance, press the  key to view the different options and the  to confirm.

GUARANTEE

This indicator is guaranteed for one year from the delivery date. The guarantee covers any fabrication defect of the material.

During this period, HIWEIGH covers the manpower and the spare parts for the reparation of the scale.

This guarantee does not cover the failures caused by an inappropriate use or overload.

The guarantee does not cover the freight cost (transport) necessary to repair the indicator.



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